UNIVERSITY OF
Waterloo

Special Collections,
University of Waterloo Library

Finding Aid : **GA 133**
J. Wesley Graham fonds.

GA 133 : Graham, J. Wesley (James Wesley), 1932-

J. Wesley Graham fonds. - 1946-1999. - 30.75 m of textual records and other material.

James Wesley Graham was a Canadian computing pioneer who was known as the "father of computing" at the University of Waterloo and who was "chiefly responsible for the university's international reputation in software development." (Donn Downey _The Globe and Mail_ http://csg.uwaterloo.ca:80/~jwgraham/g+m/liveslived.htm). Born in Copper Cliff, Ontario on Jan. 17, 1932, he studied mathematics and physics at the University of Toronto from 1950-1955. He worked for IBM Canada until 1959 when he joined the University of Waterloo. At first he taught statistics in the the Dept. of Mathematics where a "Computing Centre" was established in 1960. When it became a separate department in 1962, he became the director. He pioneered the creation of software to support education, especially in the teaching of computer programming and in making computing accessible. In the 1960's he worked with the Ministry of Education to develop computer programming instruction courses for high school students. He received the Order of Canada in 1999 for his contributions to computer science. James Wesley Graham died in 1999.

The fonds contains material relating to the life and career of James Wesley Graham. It consists of six series with subdivisions: 1. Biographical and historical files, 1955-1998; 2. Personal files, 1946-1999; 3. Works by J.W. Graham, 1957-1999; 4. University of Waterloo files, 1957-1997; 5. University of Waterloo teaching files, 1958-1994; 6. Oversize materials.

Title from content of the fonds.

Includes: 47 computer diskettes, photographs, artifacts.

Donated in 2001 by the estate of James Wesley Graham.

Individual series titles are as follows: 1.1 Biographical, 1955-1998 (files 1-43); 1.2 Biographical: Articles, 1961-1992 (files 44-60); 1.3 Biographical: University of Waterloo History, 1988-1997 (files 61-93); 2.1 Personal files to 1960 (education) 1946-1961 (files 94-130); 2.2 Personal files, 1957-1999 (files 131-592); 3.1 Works: manuscripts, [196-]-1992 (files 593-769); 3.2 Works: publications, 1960-1988 (files 770-805); 3.3 Works: talks, presentations, 1957-1999 (files 806-852); 4.1 University of Waterloo: files to 1973, 1957-1973 (files 853-1249); 4.3 University of Waterloo: post-1973 files, 1968-1997 (files 1250-1759); 5.1 University of Waterloo: teaching, 1958-1994 (files 1760-2174); 5.2 University of Waterloo: teaching: workshops, 1969-1992 (files 2175-2263); 5.3 University of Waterloo: teaching; theses supervised, 1967-1980 (files 2264-2278).

Some files are restricted.

Copyright owned by the estate.

Detailed finding aid avilable.

Series 1 :   Biographical and Historical Files.

File 0   **Biographical and historical files.** - 1955-1995.

Series contains material relating to the life and career of J. Wesley Graham and associated history of the University of Waterloo. It consists of clippings, photographs, articles and other materials subdivided into three groups: 1.1 Biographical files; 1.2 Biographical articles; 1.3 University of Waterloo history files.

Title from contents of the series.

Series 1.1 :   Biographical

File 1   **Biographical summaries.** - 1975-1978.

Contents: biographical synopses, activity data sheets.

File 2   **Portrait of JWG.** - [1960?].

File 3   **Photographs and slides.** - 1967-1978.

File 4   **Biographical, 1973.** - 1973.

Contents: material relating to J. Wesley Graham's resignation as Director of the Computing Centre as well as one item from MathNews, "Dr. Graham: Prof of the Week." Includes news releases and memoranda.

File 5   **[Biographical, 1977].** - 1977.

Contents: Computing Centre directory, 1977.

File 6   **[Biographical, 1978]: Wes work 1978.** - 1978.

Contents: material about awards and honours for J. Wesley Graham.

File 7   **Biographical, 1982: IBM interview.** - 1982.
                     Contents: material relating to an interview which appeared in _Perspectives in Computing_, May 1982. Includes correspondence, computer output ts. with corrections by J. Wesley Graham.

File 8   **[Biographical, 1982]: Wes work 1982.** - 1982.
                     Contents: material re J. Wesley Graham, University of Waterloo computing and computing in general. Includes a biographical piece by Don Cowan recommending J. Wesley Graham for an honourary degree and a letter from W. Davis.

File 9   **[Biographical, 1987-1989]: souveneirs [sic].** - 1987-1989..
                     Contents: material about awards and honours for J. Wesley Graham and computing at the University of Waterloo. Includes clippings, correspondence, ephemera. Includes a letter from Hon. William Davis.

File 10   **Biographical, 1988-1989.** - 1988-1989..
                     Contents: material about awards and honours for J. Wesley Graham and computing at the University of Waterloo. Includes ephemera, publications. Includes a history of Systems Dimensions Ltd.
                     Untitled folder.

File 11   **[Biographical, 1998]: award.** - 1998.
                     Contents: one letter re honorary membership in Communitech.
                     Untitled.
                     Loose item.

File 12   **Clippings: 1955: wedding.** - 1955.
                     Loose item.

File 13   **Clippings: 1960.** - 1960.
                     Loose item.

File 14   **Clippings: 1961.** - 1961.
                     Loose item.

File 15   **Clippings, 1962.** - 1962.
                     Contents: one clipping (May 17., 1962) about the appointment of J.W. Graham of the Dept. of Mathematics as Director of the Computing Centre. The Computing Centre operated as a separate department in the University after this date.

File 16   **Clippings, 1964.** - 1964.
                     Contents: clippings relating to the first nation-wide conference using a Micro-Wave Hook-Up as well as about the computer facilities at the University of Waterloo. Includes one issue of the University of Waterloo _Quarterly Report_ containing a two page article on the new computer centre.

File 17   **Clippings, 1965.** - 1965.
                     Contents: clippings relating to the Archimedes cattle problem, first co-operative course in honours mathematics, high school Computer Science Days, WATFOR compiler as well as reports of talks given by J. Wesley Graham on automation and the future of computer science education in the schools.

                   Subject: WATFOR

File 18   **Clippings, 1966.** - 1966.
                     Contents: clippings relating to talks by J. Wesley Graham, Computer Science Days, plans for the Mathematics and Computer building. Includes a flyer for a course by J. Wesley Graham: "An introduction to digital computers with application to business and industry," offered through the Ault Education Dept.

File 19   **Clippings, 1967.** - 1967.
                     Contents: of a two-part interview done with J. Wesley Graham by Stuart Ross and Warren Gerard, which appeared in the Globe & Mail Report on Business, Jan. 17 and 18, 1967 with titles: "The Burgeoning Computer World" and "Computers and Education: a Revolution in Teaching."

File 20   **Clippings, 1968.** - 1968.
                     Contents: one item re WASS [Waterloo Academic Student Scheduling System], which used a computer-developed timetable.

File 21   **Clippings, 1969.** - 1969.

| File 22 | **Clippings, 1972.** - 1972. |

| File 23 | **Clippings, 1973.** - 1973. |

| File 24 | **Clippings, 1974.** - 1974. |
| | *Contents: includes a story about Systems Dimensions Ltd.* |

| File 25 | **Clippings, 1975.** - 1975. |
| | *Contents: includes Antical '75.* |

File 26 **Clippings, 1976.** - 1976.

File 27 **Clippings, 1978.** - 1978.

File 28 **Clippings, 1979.** - 1979.
Contents: includes IBM WIDGET advertisements featuring a photo of Wes Graham and student. Also includes one item about replacement of the /360.

File 29 **Clippings, 1980.** - 1980.
Contents: includes material about the water ski jump measurement system and The Financial Post Special report on computers, March 8, 1980.

File 30 **Clippings, 1981.** - 1981.
Contents: includes _Financial Post_ special report on computers, Jan. 24, 1981. Also includes a _Chevron_ article linking accusing the University of Waterloo of being linked to CIA through Share Inc.

File 31 **Clippings, 1982.** - 1982.

File 32 **Clippings, 1983.** - 1983.

File 33 **Clippings, 1984.** - 1984.

File 34 **Clippings, 1985.** - 1985.

File 35 **Clippings, 1986.** - 1986.

File 36 **Clippings, 1986: Project Aries.** - 1986.
Contents: includes photographs used with the article.

File 37 **Clippings, 1987.** - 1987.

File 38 **Clippings, 1988.** - 1988.

File 39 **Clippings, 1989.** - 1989.

File 40 **Clippings, 1990.** - 1990.

File 41 **Clippings, 1993.** - 1993.

File 42 **Clippings, 1994.** - 1994.

File 43 **Clippings, 1995.** - 1995.

Series 1.2 :   Biographical: Articles

File 44 **"Academic Computing at Waterloo: an Interview with Wes Graham."** - 1982.

File 45 **"Big Machines on Campus."** - 1970.

File 46 **"Five Thousand Students and the Model 75."** - 1967.

File 47 **"IBM Hong Kong's Partnership Program."** - 1985.
Contents: articles about networking software for educational purposes developed at the University of Waterloo.

File 48 **"Industry Profile: Wes Graham of Waterloo U."** - 1976.

File 49   **"Interview in University of Waterloo with Dr. Graham."** - 1992.

File 50   **"An Interview with J. Wesley Graham."** - 1982.

File 51   **"Language Learning Tools: WATCOM's Language Translators Make Learning Languages and Developing Programs in Them a Pleasure."** - 1985.

File 52   **_Math Ties_ 8, no. 1 (Spring 1992).** - 1992.
                 Faculty of Mathematics 25th Anniversary special issue.

File 53   **"New Computer Centre Serves 1500."** - 1964.

File 54   **"Operation Retread: Chemical Engineers Study Digital Computation."** - 1963.
                 Contents: This article is a report of the Digital Computation Workshop held at the University of Waterloo, June 10-21, arranged by the Machine Computation Project of the Chemical Institute of Canada and was directed jointly by J.W. Graham and by A.I. Johnson with the assistance of IBM.

File 55   **"People and the Computer."** - 1967.
                 Contents: articele on the IBM /360. Includes quotes by J. Wesley Graham, photo of J. Wesley Graham with students.

File 56   **"The University of Waterloo."** - 1986.

File 57   **"A Victory for Computer Literacy at Waterloo."** - 1985.

File 58   **"Waterloo 1620 Used by All Faculties."** - 1961.
                 Contents: one article. Includes three photographs by Personal Studios of the 1620 with J.D. Lawson, J.W. Graham, and Tom McNulty.
                 Includes photographs.

File 59   **"Waterloo MacJanet."** - 1988.
                 Contents: includes information about CS 100.

File 60   **"Waterloo Package for Education."** - 1979.

Series 1.3 :   Biographical: UW History

File 61   **Computer Science: 25th anniversary, June, 1992.** - 1992.
                 Contents: material relating to the Dept. of Computer Science 25th anniversary celebration. Includes ms. notes, form letters, mailing lists, etc.
                 Untitled.
                 Loose papers. Includes one 3.25" diskette.

File 62   **Computer Science: 25th anniversary, June, 1992.** - 1992.
                 Contents: material relating to planning the Dept. of Computer Science 25th anniversary celebration. Includes ms. notes, letters, minutes, ephemera.
                 Untitled folder.

File 63   **Computer Science Department: 25th Anniversary Celebration: June 5, 6, 7, 1992** - 1992.
                 Contents: ephemera.
                 Loose papers.

File 64   **Computer Systems Group.** - [199-].
                 Contents: ms. notes on history.

File 65   **Computer Systems Group history.** - 1992.
                 Contents: ms. notes, memorandum re history, event.

File 66   **History.** - [199-].
                 Contents: material on computing history at the University of Waterloo. Includes ms. notes, clippings, ephemera, notes for an "ICR talk, Jan. 31, 1994", a list of graduate students supervised by J. Wesley Graham to 1993, and a stenographer's notebook labelled "Computer log" with contents dated 1961.

File 67   **Water under the bridge.** - 1997.
                 Contents topical file gazettes and printouts of Water under the bridge.

File 68   **WATFOR: 25th anniversary.** - 1990.
         Contents: materials relating to the 25th anniversary of Watfor, including schedule, mailing list, publication Watfor turns 25 / [by] Sandra Ward.
         Untitled.
         Loose papers.

         Subject: WATFOR

File 69   **WATFOR: 25th anniversary: bookings.** - 1990.
         Contents: materials relating to the planning of the 25th anniversary of WATFOR. Sandra Ward's file.

         Subject: WATFOR

File 70   **WATFOR: 25th anniversary: Educom handout: WATFOR souvenir.** - 1990.
         Contents: materials relating to the planning of the 25th anniversary of WATFOR. Sandra Ward's file.

         Subject: WATFOR

File 71   **WATFOR: 25th anniversary: expenses.** - 1990.
         Contents: materials relating to the planning of the 25th anniversary of WATFOR. Sandra Ward's file.

         Subject: WATFOR

File 72   **WATFOR: 25th anniversary: follow-up.** - 1990.
         Contents: materials relating to the planning of the 25th anniversary of WATFOR. Sandra Ward's file.

         Subject: WATFOR

File 73   **WATFOR: 25th anniversary: guest book.** - 1990.
         Contents: materials relating to the 25th anniversary of WATFOR. Sandra Ward's file.

         Subject: WATFOR

File 74   **WATFOR: 25th anniversary: hotel registration and agenda.** - 1990.
         Contents: materials relating to the planning of the 25th anniversary of WATFOR. Sandra Ward's file.

         Subject: WATFOR

File 75   **WATFOR: 25th anniversary: invitation and list of invitees.** - 1990.
         Contents: materials relating to the planning of the 25th anniversary of WATFOR. Sandra Ward's file.

         Subject: WATFOR

File 76   **WATFOR: 25th anniversary: invitations.** - 1990.
         Contents: materials relating to the planning of the 25th anniversary of WATFOR. Sandra Ward's file.

         Subject: WATFOR

File 77   **WATFOR: 25th anniversary: notice of celebration.** - 1990.
         Contents: materials relating to the planning of the 25th anniversary of WATFOR. Sandra Ward's file.

         Subject: WATFOR

File 78   **WATFOR: 25th anniversary: replies to WATFOR comment letters.** - 1990.
         Contents: materials relating to the planning of the 25th anniversary of WATFOR. Sandra Ward's file.

         Subject: WATFOR

File 79   **WATFOR: 25th anniversary: responses to 25th celebration letter.** - 1990.
                 Contents: materials relating to the planning of the 25th anniversary of WATFOR.
         Sandra Ward's file.

                 Subject: WATFOR

File 80   **WATFOR: 25th anniversary souvenirs.** - 1990.
                 Contents: keychains.
                 Untitled.
                 Loose items.

                 Subject: WATFOR

File 81   **WATFOR: 25th anniversary: Trends in data management: relational databases and**
                 SQL / D.E. Neudoerffer, WATCOM Systems Inc. - [1990?].
                 Contents: paper copies of transparencies, each page labelled "WATFOR 25th
         Anniversary."

                 Subject: WATFOR

File 82   **WATFOR: 25th anniversary: WATFOR comment letters.** - 1990.
                 Contents: materials relating to the planning of the 25th anniversary of WATFOR.
         Sandra Ward's file.

                 Subject: WATFOR

File 83   **[WATFOR: 25th anniversary]: Wes.** - 1988-1990.
                 Contents: materials relating to the planning of the 25th anniversary of WATFOR,
         including proposal, mailings, facility arrangements. Sandra Ward's file.

                 Subject: WATFOR

File 84   **WATFOR history: research: 7040 WATFOR.** - [1989].
                 Contents: materials relating to a project to document the development of WATFOR.
         Includes photocopies of materials from 1965 to 1967 including news items, J. Wesley Graham
         ms. notes, WATFOR meetings and articles "Solution of the cattle problem of Archimedes,"
         "WATFOR: the University of Waterloo FORTRAN IV compiler."

                 Subject: WATFOR

File 85   **WATFOR history: research: birds of a feather, other offprints.** - 1982.
                 Contents: materials relating to a project to document the development of WATFOR.
         Consists of WATFOR newsletter, undated, and DCS newletter, 25th anniversary issue, 1982.

                 Subject: WATFOR

File 86   **WATFOR history: research: documentation.** - [1989].
                 Contents: materials relating to a project to document the development of WATFOR.
         Consists of a list of Central Photo references.

                 Subject: WATFOR

File 87   **WATFOR history: research: early WATFOR Committee minutes.** - [1989].
                 Contents: materials relating to a project to document the development of WATFOR.
         Includes photocopies of materials from 1960 to 1968, including appointments and computer
         facilities in educational institutions in 1960, Computing Centre newsletter relocation, other
         *material on 1401 and 7040 operation. Does *not* include WATFOR Committee minutes as*
         indicated on folder.

                 Subject: WATFOR

File 88   **WATFOR history: research: institutional users, users' correspondence..** - [1989].
                 Contents: materials relating to a project to document the development of WATFOR.
         Includes photocopies of materials from 1965 to 1966 including lists of WATFOR installations
         and correspondence.

                 Subject: WATFOR

File 89   **WATFOR history: research: memorabilia.** - [1989].
                Contents: materials relating to a project to document the development of WATFOR.
           Includes photocopies of materials from 1960 to 1990. Sandra Ward's research binder.

                Subject: WATFOR

File 90   **WATFOR history: research report audiotapes.** - 1989.
                Contents: materials relating to a project to document the development of WATFOR.
           Includes outline of project and research, as well as three interviews with J. Wesley Graham,
           P.Dirksen, Don Cowan.
                Includes three audiocassettes.

                Subject: WATFOR

File 91   **WATFOR history: research: UW Quarterly Report, newspaper clippings.** - [1989].
                Contents: materials relating to a project to document the development of WATFOR.
           Includes photocopies of news items from 1965 to 1966.

                Subject: WATFOR

File 92   **WATFOR history: research: WATFIV** - [1989].
                Contents: materials relating to a project to document the development of WATFOR.
           Includes one photocopy of a memorandum from 1970 re WATFIV bugs.

                Subject: WATFOR

File 93   **WATFOR turns 25 / [by] Sandra Ward.** - 1990.
                Contents: loose transparencies, paper copies of presentation.
                Loose presentation.

                Subject: WATFOR

Series 2.1 :   Personal files to 1960 (Education)

File 0   **Personal files to 1960 (education).** - 1946-1961.
                Series consists of material relating to the education of J. Wesley Graham from high
           school in Copper Cliff, Ont. to undergraduate and graduate work at the University of Toronto,
           as well as some post-graduate material. Included are notebooks, examinations, essays,
           drawings, correspondence and printed course materials.
                Title from content of the series.

File 94   **High school: personal papers.** - 1946-1949.
                Contents: an assortment of printed and ms. material from J. Wesley Graham's high
           school years at Copper Cliff. Includes newsletters, humorous items, expenses, etc.
                In a University of Toronto folder.

File 95   **High school: grades nine and ten geography.** - [194-].
                Contents: Dent's Atlas, hand-coloured maps.
                Loose items.

File 96   **Grade thirteen study aids (file 1 of 2)** - [194-].
                Contents: "teaching studies" mostly published by G. Totten, Toronto, for
           Trigonometry, English and French subjects.
                Loose items.

File 97   **Grade thirteen study aids (file 2 of 2)** - [194-].
                Contents: "teaching studies" mostly published by G. Totten, Toronto, for
           Trigonometry, English and French subjects.
                Loose items.

File 98   **Upper School examinations: grade thirteen: problems and solutions in chemistry and**
                mathematics. - 1940-1949.
                Contents: fourteen booklets.
                Loose items.

File 99   **Actuarial Science 2C, 1951-1952 [file 1 of 2].** - 1951-1952.
                Contents: ms. notes and calculations.
                In moldy binder -- binder discarded.

File 100   **Actuarial Science 2C, 1951-1952 [file 2 of 2].** - 1951-1952.
        Contents: ms. notes and calculations.
        In moldy binder -- binder discarded.

File 101   **Essay by JWG: Cottrell dust loss tests, Aug. 1953.** - 1953.
        Contents: student essay (ts. carbon) about cottrell system installed at INCO.
        Loose papers.

File 102   **Daily Expenses.** - 1951.
        Contents: itemized daily expenses, Sept. to Dec. 1951.
        Untitled.
        Loose papers.

File 103   **De Lury.** - 1955.
        Contents: ca. 200 p. ms. notes and calculations for course in mathematics, source unknown. Includes 1946 offprint by D. B. De Lury: "The analysis of Latin squares when some observations are missing."
        Untitled.
        Loose papers.

File 104   **Economics notes.** - [1960?].
        Contents: ms. notes, U of T bibliography for course in economics.
        Untitled folder.

File 105   **German.** - 1960-1961.
        Contents: ms. course notes, copies of reading examinations for Ph.D. Candidates.
        Untitled folder.

File 106   **Engineering problem, first year.** - 1955.
        Contents: printed problems, ms. notes and calculations.
        Loose envelope.

File 107   **Fraser's notes.** - 1953.
        Contents: ms. notes and calculations, also D.A.S. Fraser: offprints from the Annals of Mathematical Statistics.
        Loose notebook.

File 108   **[Fraser's notes]: Nonparametric theory and applications / by D.A.S. Fraser, University of Toronto.** - 1955.
        Contents: 137, 227 leaves reproduced for course work.
        Loose publication.

File 109   **[Fraser's notes]: Nonrapametric theory and applications / by D.A.S. Fraser, University of Toronto.** - 1955.
        Contents: 137, 227 leaves reproduced for course work.
        Loose publication.

File 110   **French.** - 1960.
        Contents: ms. course notes, copy of graduate reading examination in French.
        Untitled folder.

File 111   **Logic notes.** - [195-].
        Contents: 41 p. ms. notes.
        Loose papers.

File 112   **Mathematics: I Architecture.** - [195-].
        Contents: photreproductions of course notes and problem sets.
        Untitled loose papers.

File 113   **Mathematics problems.** - 1955.
        Contents: printed problems, ms. notes and calculations.
        Unlabelled envelope.
        Loose envelope.

File 114   **Oriental Literature notes.** - 1951.
        On folder: Oriental Literature 2b / Wesley James Graham 5T4 U.C. M&P

File 115   **Physics: 1st M.P. & C.** - 1950-1951.
        Contents: laboratory notebook.
        Loose notebook.

File 116   **Physics: el. & mag. II.** - 1951-1952.
                 Contents: laboratory notebook.
                 Loose notebook.

File 117   **Physics: light, II.** - 1951-1952.
                 Contents: laboratory notebook.
                 Loose notebook.

File 118   **Physics: light, II M&P.** - 1952.
                 Contents: laboratory notebook.
                 Loose notebook.

File 119   **Statistics.** - 1952.
                 Contents: student notebook containing notes and assignments for statistics.
                 Untitled.
                 Loose notebook.

File 120   **Statistics.** - [1952].
                 Contents: student notebook containing notes and assignments for statistics.
                 Untitled.
                 Loose notebook.

File 121   **Statistics.** - 1954.
                 Contents: student notebook containing notes and assignments for statistics.
                 Untitled.
                 Loose notebook.

File 122   **Student exercises and labs.** - 1959.
                 Contents: Numerical Analysis exercises and labs completed by J. W. Graham, ms. notes. Includes two copies of a handout: Transcode: a system of coding for the Ferranti Mark 1 Computer / by J.N.P. Hume, B.H. Worsley. [Toronto]: Computation Centre, University of Toronto, 1954.
                 Unlabelled envelope.

File 123   **Student notebook.** - 1950.
                 Contents: student notebook containing notes and assignments for mathematics, military history.
                 Untitled.
                 Loose notebook.

File 124   **Student notes, assignments and examinations [file 1 of 2].** - 1949-1954.
                 Loose papers.

File 125   **Student notes, assignments and examinations [file 2 of 2].** - 1949-1954.
                 Loose papers.

File 126   **Student timetable.** - [195-].
                 Contents: clipboard, ephemera.
                 Loose items.

File 127   **University of Toronto: Faculty of Arts annual examinations, fourth year.** - 1949-1953.
                 Contents: sets of printed examinations, lacking 1950.
                 Loose papers.

File 128   **University of Toronto Faculty of Arts: Annual examinations 1950, fourth year.** - 1950.
                 Loose publication.

File 129   **University of Toronto: Annual examinations 1951, Faculty of Arts.** - 1951.
                 Contents: large timetable in poster form.
                 Untitled.
                 Loose papers.

File 130   **University of Toronto publications.** - 1950-1952.
                 Contents: calendars and directories owned by J. Wesley Graham.
                 Loose items.

Series 2.2 :   Personal Files, 1957-1999

File 0   **Personal files, 1957-1999.** - 1957-1999.
                *Series consists of material relating to the activities and interests of J. Wesley Graham
                from 1957-1999, apart from his career at the University of Waterloo. This includes proposals
                for computer installations done while employed by IBM (1957-1959), personal consulting
                projects, involvement in Government committees relating to computing such as the Ontario
                Dept. of Education Computer Science Study Committee (1965-1970), including his work as
                Scientific Policy Advisor to the Ontario Government (1969-1973), involvement in computing
                organizations such as the Computer Society of Canada, later the Canadian Information
                Processing Society (1963-1991), records of personal businesses such as Systems Dimensions
                Limited (1968-1978), and records of personal interests and hobbies, chiefly his interest
                indeveloping a computerized scoring system for water-ski competitions (1975-1988). Included
                are correspondence (1961-1988), desk diaries (1971-1999), ephemera, computer diskettes,
                manuscripts, minutes, publications, reports, financial statements and working papers.*
                Title from content of the series.

File 131   **Accounting documents.** - 1979.
                Contents: one ledger of personal accounting , March-May 1979 filled in.

File 132   **Apple Canada Education Foundation.** - 1986.

File 133   **Apple Canada Education Foundation (ACEF).** - 1987.
                *Contents: proposed operating procedures, constitution, guidelines for application,
                etc., project proposals.*
                Untitled folder.

File 134   **Apple Canada Education Foundation (ACEF): ACEF Applelinks.** - 1987-1989.
                Contents: board correspondence and e-mail.

File 135   **Apple Canada Inc.: investment initiative, 1986-1987.** - 1987.
                Contents: includes description and history of Apple Canada Education Foundation.
                Publication, loose.

File 136   **Apple expense sheets.** - 1986.

File 137   **Apple publications.** - 1986.
                Includes issues of _Apple in Education_ and _Wheels for the Mind_.
                Publication: serial issue.

File 138   **Apple talk.** - [198-].
                transparencies (slides) originals.

File 139   **Apple trial.** - 1984.
                Contents: legal documents (photocopies), articles (photocopies).
                Loose papers.

File 140   **Apple trial.** - 1984.
                Contents: legal documents (photocopies), ms. notes, computer output.
                Untitled folder.

File 141   **Apple trial.** - 1984.
                *Contents: legal documents (photocopies), ms. notes, computer output. Includes
                biographical information.*
                Untitled folder.

File 142   **Apple trial.** - 1984-1985.
                Contents: correspondence, legal documents, ms. notes.
                Loose papers.

File 143   **Apple trial.** - 1984-1985.
                Contents: correspondence, legal documents, ms. notes.
                Contains four sub-folders.

File 144   **Apple trial.** - 1984-1986.
                Contents: correspondence, legal documents, ms. notes.

File 145   **Apple trial.** - 1986-1987.
                Contents: legal documents, document re copyright.
                Loose papers.

File 146   **Apple trial: Affidavit prepared for Apple Computer, Inc. by J.W. Graham, Dean of Computing and Communications, University of Waterloo, April 1, 1984.** - 1984.
             Contents: three copies of affidavit.

File 147   **[Apple Trial]: Apple A.** - 1985.
             Contents: correspondence, legal documents.

File 148   **[Apple Trial]: Apple C.** - 1984.
             Contents: affidavit prepared by J.W. Graham.

File 149   **[Apple Trial]: CMOS controller computer software.** - [19--].
             Contents: computer output.
             Loose binder.

File 150   **[Apple trial]: computer hardware, computer concepts, one day.** - 1986.
             Contents: two 5.25" diskettes, ms. notes, leetr from D.T. Wright to Brian Mulroney re protection of software.
             Includes two 5.25" diskettes.

File 151   **Apple trial: used for a Brown Bag Seminar in Computer Science, Tues. Apr. 29, 1986.** - 1985.

File 152   **Appointment book.** - 1971.
             Contents: desk diary belonging to Wes Graham.

File 153   **Appointment book.** - 1972.
             Contents: desk diary belonging to Wes Graham.

File 154   **Appointment book.** - 1973.
             Contents: desk diary belonging to Wes Graham.

File 155   **Appointment book.** - 1974.
             Contents: desk diary belonging to Wes Graham. Two copies, one prepared and not used?

File 156   **Appointment book.** - 1975.
             Contents: desk diary belonging to Wes Graham.

File 157   **Appointment book.** - 1976.
             Contents: desk diary belonging to Wes Graham.

File 158   **Appointment book.** - 1977.
             Contents: desk diary belonging to Wes Graham.

File 159   **Appointment book.** - 1978.
             Contents: desk diary belonging to Wes Graham.

File 160   **Appointment book.** - 1979.
             Contents: desk diary belonging to Wes Graham.

File 161   **Appointment book.** - 1980.
             Contents: desk diary belonging to Wes Graham.

File 162   **Appointment book.** - 1981.
             Contents: desk diary belonging to Wes Graham.

File 163   **Appointment book.** - 1982.
             Contents: desk diary belonging to Wes Graham.

File 164   **Appointment book.** - 1983.
             Contents: desk diary belonging to Wes Graham.

File 165   **Appointment book.** - 1984.
             Contents: desk diary belonging to Wes Graham.

File 166   **Appointment book.** - 1985.
             Contents: desk diary belonging to Wes Graham.

File 167   **Appointment book.** - 1985.
             Contents: pocket diary belonging to Wes Graham.

File 168   **Appointment book.** - 1986.
                          Contents: desk diary belonging to Wes Graham.

File 169   **Appointment book.** - 1987.
                          Contents: desk diary belonging to Wes Graham.

File 170   **Appointment book.** - 1988.
                          Contents: desk diary belonging to Wes Graham.

File 171   **Appointment book.** - 1989.
                          Contents: desk diary belonging to Wes Graham.

File 172   **Appointment book.** - 1990.
                          Contents: desk diary belonging to Wes Graham.

File 173   **Appointment book.** - 1991.
                          Contents: desk diary belonging to Wes Graham.

File 174   **Appointment book.** - 1992.
                          Contents: desk diary belonging to Wes Graham.

File 175   **Appointment book.** - 1993.
                          Contents: desk diary belonging to Wes Graham.

File 176   **Appointment book.** - 1994.
                          Contents: desk diary belonging to Wes Graham.

File 177   **Appointment book.** - 1995.
                          Contents: desk diary belonging to Wes Graham.

File 178   **Appointment book.** - 1996.
                          Contents: desk diary belonging to Wes Graham.

File 179   **Appointment book.** - 1997.
                          Contents: desk diary belonging to Wes Graham.

File 180   **Appointment book.** - 1998.
                          Contents: desk diary belonging to Wes Graham.

File 181   **Appointment book.** - 1999.
                          Contents: desk diary belonging to Wes Graham.

File 182   **Campfire songs.** - [195-].
                          Contents: 1 song book.

File 183   **Canadian Water Ski Association: AGM: Ottawa trip.** - 1984.
                          *Contents: material relating to the 1984 Annual General Meeting of the Canadian
                  Water Ski Association. Includes ms. notes, correspondence.*

File 184   **Canadian Water Ski Association: filing.** - 1980-1982.
                          *Contents: correspondence to and from and correspondence copies and other material
                  for Wes Graham.*
                          Untitled.
                          Loose papers.

File 185   **Canadian Water Ski Association: filing.** - 1982-1983.
                          *Contents: correspondence to and from and correspondence copies and other material
                  for Wes Graham.*
                          Untitled.
                          Loose papers.

File 186   **Canadian Water Ski Association: filing.** - 1983.
                          Contents: Canadian Water Ski Association material: planning reports, minutes, reports.
                          Untitled.
                          Loose papers.

File 187   **Canadian Water Ski Association: filing.** - 1983-1984.
                Contents: correspondence to and from and correspondence copies and other material
        for Wes Graham (President of CWSA).
                        Untitled.
                        Loose papers.

File 188   **Canadian Water Ski Association: filing.** - 1984.
                Contents: correspondence to and from and correspondence copies and other material
        for Wes Graham (President of CWSA).
                        Untitled.
                        Loose papers.

File 189   **Canadian Water Ski Association: filing.** - 1984-1985.
                Contents: correspondence to and from Wes Graham (President of CWSA),
        newsletters, memoranda.

File 190   **Canadian Water Ski Association: filing.** - 1984-1985.
                Contents: correspondence copies and other material for Wes Graham (President of
        CWSA).

File 191   **Canadian Water Ski Association: filing.** - 1984-1985.
                Contents: correspondence copies and other material for Wes Graham (President of
        CWSA).

File 192   **Canadian Water Ski Association: filing.** - 1984-1985.
                Contents: correspondence to and from and correspondence copies and other material
        for Wes Graham (President of CWSA).
                        Untitled.
                        Loose papers.

File 193   **Canadian Water Ski Association: filing.** - 1984-1985.
                Contents: correspondence to and from and correspondence copies and other material
        for Wes Graham (President of CWSA).
                        Untitled.
                        Loose papers.

File 194   **Canadian Water Ski Association: filing.** - 1984-1985.
                Contents: correspondence to and from and correspondence copies and other material
        for Wes Graham (President of CWSA).
                        Untitled.
                        Loose papers.

File 195   **Canadian Water Ski Association: filing.** - 1984-1985.
                Contents: correspondence to and from and correspondence copies and other material
        for Wes Graham (President of CWSA).
                        Untitled.
                        Loose papers.

File 196   **Canadian Water Ski Association: filing.** - 1984-1985.
                Contents: correspondence to and from and correspondence copies and other material
        for Wes Graham (President of CWSA).
                        Untitled.
                        Loose papers.

File 197   **Canadian Water Ski Association: filing.** - 1984-1985.
                Contents: correspondence to and from and correspondence copies and other material
        for Wes Graham (President of CWSA).

File 198   **Canadian Water Ski Association: filing.** - 1984-1985.
                Contents: correspondence to and from and correspondence copies and other material
        for Wes Graham (President of CWSA).
                        Untitled.
                        Loose papers.

File 199   **Canadian Water Ski Association: filing.** - 1985.
                Contents: correspondence to and from Wes Graham (President of CWSA).

File 200   **Canadian Water Ski Association: filing.** - 1985.
                Contents: correspondence copies for Wes Graham (President of CWSA), Jan. 1985.

File 201   **Canadian Water Ski Association: filing.** - 1985.
                    Contents: correspondence to and from and correspondence copies and other material
                for Wes Graham (President of CWSA).

File 202   **Canadian Water Ski Association: filing.** - 1985.
                    Contents: correspondence to and from and correspondence copies and other material
                for Wes Graham (President of CWSA).

File 203   **Canadian Water-ski Association: official rule books.** - 1981, 1983.
                    Publications, loose.

File 204   **CIPS [Canadian Information Processing Society]: accreditation.** - 1979.
                    Contents: material relating to Canadian Information Processing Society Accreditation
                Council. J. Wesley Graham became a member in 1979. Includes correspondence, minutes.

File 205   **CIPS [Canadian Information Processing Society], formerly called IPSOC.** - 1970-1971.
                    Contents: material relating to the C.I.P.S. Includes correspondence, memoranda,
                minutes, conference information.

File 206   **CIPS [Canadian Information Processing Society] formerly Computer Society of
                Canada: correspondence.** - 1967-1968.
                    Contents: material relating to the C.I.P.S. Includes correspondence, memoranda,
                minutes.

File 207   **CIPS [Canadian Information Processing Society]: Honours and Awards Nominating
                Committee, 1990.** - 1990.

File 208   **CIPS [Canadian Information Processing Society]: Honours and Awards Nominating
                Committee, 1991 [file 1 of 4].** - 1991.
                    Untitled.
                    Loose papers.

File 209   **CIPS [Canadian Information Processing Society]: Honours and Awards Nominating
                Committee, 1991 [file 2 of 4].** - 1991.
                    Untitled.
                    Loose papers.

File 210   **CIPS [Canadian Information Processing Society]: Honours and Awards Nominating
                Committee, 1991 [file 3 of 4].** - 1991.
                    Untitled.
                    Loose papers.

File 211   **CIPS [Canadian Information Processing Society]: Honours and Awards Nominating
                Committee, 1991 [file 4 of 4].** - 1991.
                    Untitled.
                    Loose papers. Includes a CD.

File 212   **CIPS [Canadian Information Processing Society]: National Honours and Awards
                Nominating Committee: announcement requesting nominations for four
                awards.** - 1989.

File 213   **CIPS [Canadian Information Processing Society]: National Honours and Awards
                Nominating Committee: initial letter, committee members and appointment
                term.** - 1988.

File 214   **CIPS [Canadian Information Processing Society]: results from committee, 1989.** -
                1989.

File 215   **College teaching as a career / Committee on College Teaching, American Council on
                Education.** - 1958. - 28 p. : ill.
                    Loose publication.
                Added Entries: American Council on Education.

File 216   **Committee of Presidents of Universities of Ontario. Subcommittee on Computer
                Services (7).** - 1971-1972.
                    Contents: material relating to the work of a committee formed by the Committee of
                Presidents of Universities of Ontario (which became the Council of Ontario Universities in 1971)
                to study a university computer network.
                    Originally in a binder.

File 217   **Correspondence.** - 1980.
                           Contents: general correspondence to and from J. Wesley Graham. Topics include the
                   Commodore PET for educational use.
                           Untitled.
                           Loose papers.

File 218   **Correspondence, Feb. 1983.** - 1983.
                           Untitled.
                           Loose papers.

File 219   **Correspondence (personal): J.W. Graham, 1961-1962, from Ralph Stanton.** - 1961-
                   1962.

File 220   **Correspondence (personal): J.W. Graham, 1963-1970.** - 1963-1970.

File 221   **[Correspondence]: Tickler, April 28, 1975-Dec. 31, 1976 (file 1 of 2).** - 1975-1976.
                           Contents: outgoing correspondence copies by and on behalf of J. Wesley Graham.
                           Originally in large duo-tang.
                           Contents are in reverse chronological order.

File 222   **[Correspondence]: Tickler, April 28, 1975-Dec. 31, 1976 (file 2 of 2).** - 1975-1976.
                           Contents: outgoing correspondence copies by and on behalf of J. Wesley Graham.
                           Originally in large duo-tang.
                           Contents are in reverse chronological order.

File 223   **[Correspondence]: Tickler, Jan. 1977-Nov. 1980 (file 1 of 2).** - 1977-1980.
                           Contents: outgoing correspondence copies by and on behalf of J. Wesley Graham.
                           Originally in large duo-tang.
                           Contents are in reverse chronological order.

File 224   **[Correspondence]: Tickler, Jan. 1977-Nov. 1980 (file 2 of 2).** - 1977-1980.
                           Contents: outgoing correspondence copies by and on behalf of J. Wesley Graham.
                           Originally in large duo-tang.
                           Contents are in reverse chronological order.

File 225   **[Correspondence]: Tickler file, Jan.-Dec., 1984 (file 1 of 3).** - 1984.
                           Contents: outgoing correspondence copies by and on behalf of J. Wesley Graham.
                           Originally in binder.

File 226   **[Correspondence]: Tickler file, Jan.-Dec., 1984 (file 2 of 3).** - 1984.
                           Contents: outgoing correspondence copies by and on behalf of J. Wesley Graham.
                           Originally in binder.

File 227   **[Correspondence]: Tickler file, Jan.-Dec., 1984 (file 3 of 3).** - 1984.
                           Contents: outgoing correspondence copies by and on behalf of J. Wesley Graham.
                           Originally in binder.

File 228   **[Correspondence]: Tickler file, Jan.-Dec., 1985 (file 1 of 3).** - 1985.
                           Contents: outgoing correspondence copies by and on behalf of J. Wesley Graham.
                           Originally in binder.

File 229   **[Correspondence]: Tickler file, Jan.-Dec., 1985 (file 2 of 3).** - 1985.
                           Contents: outgoing correspondence copies by and on behalf of J. Wesley Graham.
                           Originally in binder.

File 230   **[Correspondence]: Tickler file, Jan.-Dec., 1985 (file 3 of 3).** - 1985.
                           Contents: outgoing correspondence copies by and on behalf of J. Wesley Graham.
                           Originally in binder.

File 231   **[Correspondence]: Tickler file, Jan.-June, 1986.** - 1986.
                           Contents: outgoing correspondence copies by and on behalf of J. Wesley Graham.
                           Originally in binder.

File 232   **[Correspondence]: Tickler file, July-Dec., 1986.** - 1986.
                           Contents: outgoing correspondence copies by and on behalf of J. Wesley Graham.
                           Originally in binder.

File 233   **[Correspondence]: Tickler file, Jan.-June, 1987.** - 1987.
                           Contents: outgoing correspondence copies by and on behalf of J. Wesley Graham.
                           Originally in binder.

File 234   **[Correspondence]: Tickler file, July-Dec., 1987.** - 1987.
                       Contents: outgoing correspondence copies by and on behalf of J. Wesley Graham.
                       Originally in binder.

File 235   **[Correspondence]: Tickler file, 1988.** - 1988.
                       Contents: outgoing correspondence copies by and on behalf of J. Wesley Graham.
                       Originally in binder.

File 236   **[Correspondence]: Wes work.** - 1972-1976.
                       Contents: correspondence about awards and honours for J. Wesley Graham,
                 correspondence re resignation as director of computing centre.

File 237   **Cremanco Systems Limited.** - 1978.
                       Contents: prospectus

File 238   **CSC [Computer Society of Canada]: Banff up to March 1966.** - 1965-1966.

File 239   **CSC [Computer Society of Canada]: Banff, from April 1966 up.** - 1966.

File 240   **CSC [Computer Society of Canada]: board meeting, Oct. 1966.** - 1966.

File 241   **CSC [Computer Society of Canada]: board meeting, Feb. 20, 1967.** - 1967.

File 242   **CSC [Computer Society of Canada]: board meeting, May 30, 1967.** - 1967.

File 243   **CSC [Computer Society of Canada]: book list.** - 1966-1967.

File 244   **CSC [Computer Society of Canada]: Bulletin.** - 1965-1968.

File 245   **CSC [Computer Society of Canada]: Canadian Standard Association.** - 1966-1967.

File 246   **CSC [Computer Society of Canada]: CCMA [Canadian Council of Management
                       Associations].** - 1965-1966.

File 247   **CSC [Computer Society of Canada]: Committee on Government Relations.** - 1966-1967.

File 248   **CSC [Computer Society of Canada]: conference, 1968.** - 1966-1967.
                       Contents: correspondence, ephemera, list of officers..

File 249   **CSC [Computer Society of Canada]: constitution.** - 1963-1968.

File 250   **CSC [Computer Society of Canada]: correspondence.** - 1965.
                       Contents: Dr. H.S. Gellman's correspondence as President of the Computer and Data
                 Processing Society of Canada. The name changed to Computer Society of Canada.

File 251   **CSC [Computer Society of Canada]: correspondence.** - 1965-1967.
                       Contents: J. Wesley Graham's correspondence as President of CSC.

File 252   **CSC [Computer Society of Canada]: EDP salary survey.** - 1967.

File 253   **CSC [Computer Society of Canada]: Education Committee.** - 1965-1967.

File 254   **CSC [Computer Society of Canada]: elections.** - 1965-1967.

File 255   **CSC [Computer Society of Canada]: executive sections.** - 1965-1966.

File 256   **CSC [Computer Society of Canada]: facts brochure, 1964-1965.** - 1964-1965.

File 257   **CSC [Computer Society of Canada]: facts brochure, 1965-1966.** - 1965-1966.

File 258   **CSC [Computer Society of Canada]: facts brochure, 1966-1967.** - 1966-1967.

File 259   **CSC [Computer Society of Canada]: facts brochure correspondence.** - 1965-1968.

File 260   **CSC [Computer Society of Canada]: finance.** - 1965-1967.

File 261   **CSC [Computer Society of Canada]: French glossary.** - 1965-1967.

File 262   **CSC [Computer Society of Canada]: joint ACM-CSC conference.** - 1965-1966.
            ACM=Association for Computing Machinery.

File 263   **CSC [Computer Society of Canada]: Joint CORS-CSC conference.** - 1966-1967.
            Contents: correspondence, minutes of first meeting "CORS-CSC Joint Committee"
Mar. 3, 1966, reports.
            CORS = Canadian Operational Research Society.

File 264   **CSC [Computer Society of Canada]: local sections, from Jan. 1, 1967.** - 1967.

File 265   **CSC [Computer Society of Canada]: local sections, up to Dec. 31, 1966.** - 1965-1966.

File 266   **CSC [Computer Society of Canada]: meetings and minutes.** - 1965-1966.

File 267   **CSC [Computer Society of Canada]: meetings and minutes: annual meeting 1967.** -
            1967.

File 268   **CSC [Computer Society of Canada]: membership list, up to Dec. 1966.** - 1965-1966.

File 269   **CSC [Computer Society of Canada]: metric system.** - 1966.

File 270   **CSC [Computer Society of Canada]: program chairman's handbook, copy no. 2,
            National President.** - [1965?].
            Untitled folder.

File 271   **CSC [Computer Society of Canada]: Special Interest Group on Computer Education in
            the Secondary Schools, P.H. Dirksen.** - 1965.
            Contents: correspondence, newsletters, background material. Includes one piece by
J. Wesley Graham: "The place of unit record equipment in the high schools."

File 272   **[CSC [Computer Society of Canada]: untitled, loose]: bibliography and abstracts of
            papers on computing.** - [196-].
            Contents: a bibliography and abstracts of papers on computing (ts.,carbon), perhaps
prepared for a conference.
            Untitled.
            Loose papers.

File 273   **[CSC [Computer Society of Canada]: untitled, loose]: census of computers in Canada.**
            - 1967.
            Contents: special supplementary issue, August 1967 of the _Quarterly Bulletin_ 7,
no. 5 (Summer 1967) of the Computer Society of Canada.
            Loose publication.

File 274   **[CSC [Computer Society of Canada]: untitled, loose]: computing articles.** - 1963.
            Contents: copies of three papers, two by Edward S. Lowry, one by Victor H. Yngve,
marked #1, #3, #4, perhaps submitted for conference or publication.
            Loose papers.

File 275   **Current reading.** - 1991-1992.
            Contents: information about University of Waterloo software sent to J. Wesley Graham
for his attention. Includes diskette.
            Contains one 3.5" diskette re MacJanet.

File 276   **Dalhousie.** - 1981-1984.
            Contents: material relating to computing at Dalhousie University. Includes proposals
and papers sent for J. Wesley Graham to read, ms. notes. Consulting?

File 277   **Expenses.** - 1983.
            Untitled.
            Loose papers.

File 278   **Expenses list.** - [195-?].
            Untitled folder.

File 279   **Exploracom: agendas and minutes (file 1 of 2).** - 1984-1986.

File 280   **Exploracom: agendas and minutes (file 2 of 2).** - 1984-1986.

File 281   **Exploracom: clippings.** - 1987.

File 282	**Exploracom: computer museum (file 1 of 2).** - 1984-1986.

File 282   **Exploracom: computer museum (file 1 of 2).** - 1984-1986.
Contents: news releas, publications including "Formal structure and organization," implementation drafts, publicity materials, clipping copies.

File 283   **Exploracom: computer museum (file 2 of 2).** - 1984-1986.
Contents: news releas, publications including "Formal structure and organization," implementation drafts, publicity materials, clipping copies.

File 284   **Exploracom: info following receivership.** - 1986-1987.
Contents: material concerning the Exploracom Computer Exploration and Enterpise Centre, of which J.W.G. was a director.The government of Ontario failed to give a promised grant, leaving the enterprise insolvent.

File 285   **Exploracom: legal documents, outstanding.** - 1987-1991.

File 286   **Exploracom: letters.** - 1984-1986.

File 287   **Exploracom: press conference, Jan. 29, 1987.** - 1987.

File 288   **Filing.** - 1980.
Contents: correspondence, memoranda, ephemera on a variety of topics, both personal and University of Waterloo-related. Includes information on the President's Committee, typescript of a talk on the history of the SuperPet at University of Waterloo, meeting minutes of the René Descartes Foundation, two drafts of a letter in support of Ralph G. Stanton's nomination for "distinguished professor" atr the University of Manitoba. This letter details Stanton's role in the history of computing at University of Waterloo.

File 289   **[Filing].** - 1984.
Contents: one piece of WATCOM correspondence.
Untitled folder.

File 290   **Filing.** - 1985-1986.
Contents: correspondence, memoranda, ephemera on a variety of topics, both personal and University of Waterloo-related.

File 291   **[Filing].** - 1986.
Contents: correspondence, memoranda, ms. notes, ephemera relating to budget matters, reorganization of WATCOM, software, water ski.

File 292   **Filing.** - 1986-1987.
Contents: correspondence, memoranda, ephemera on a variety of topics, both personal and University of Waterloo-related.

File 293   **Filing.** - 1987.
Contents: ms. by J. Wesley Graham re University of Waterloo history with IBM company, correspondence, ephemera.

File 294   **Filing.** - 1989.
Contents: correspondence, article about WATCOM, clipping re CIPS.

File 295   **[Filing].** - 1990.
Contents: CIPS correspondence, monthly license activity reports, memoranda, ephemera, photocopied article.
Untitled folder.

File 296   **[Filing].** - 1991-1992.
Contents: Computer Systems Group constitution [1985], WATCOM shareholders' agreement information, University of Waterloo policy on conflict of interest, memorandum comparing Waterloo Rita vs. WordPerfect, a student work-term report on object -oriented design, three papers on relational databases.
Untitled folder.

File 297   **Filing.** - 1992.
Contents: correspondence, memoranda, ephemera, ms. notes on a variety of topics, both personal and University of Waterloo-related. Includes information on Faculty of Math 25th anniversary and history.

File 298   **Filing.** - 1992.
           Contents: clippings, correspondence, memoranda, ephemera, ms. notes on a variety of topics, both personal and University of Waterloo-related. Includes information on CIPS, J. Wesley Graham's role in CSG, WATFOR anniversary planning, court case re software [confidential], biographical information, correspondence re Turing software.
           Untitled folder.

       Subject: WATFOR

File 299   **[Filing]: Sharon.** - 1982-1985.
           Contents: clippings, WATFAC personal expenses for J. Wesley Graham, review of WATFILE, correspondence.

File 300   **[Filing]: Wes work 1981.** - 1981.

File 301   **[Filing]: Wes work 1983.** - 1983.
           Contents: one piece of correspondence.

File 302   **Fox Software.** - 1990-1991.
           Contents: correspondence, affidavits, legal documents re Ashton/Tate-Fox suit. J. Wesley Graham an "expert witness?"
           Confidential.

File 303   **Graham, J.W.: miscellaneous.** - 1967-1982.

File 304   **Hamilton Board of Education.** - 1978.
           Contents: material relating to J. Wesley Graham work on Hamilton Board of Education computing. Includes, correspondence, reports, minutes, draft RFP, Digital product information.

File 305   **Hamilton Board of Education: proposal, May 5, 1978.** - 1978.
           Contents: quotation from Digital.
           Untitled publication.

File 306   **Harvard Business School Association seminar: "The modern manager and the new mathematical concepts in business decision problems."** - 1965.
           Contents: course materials, ms. notes.
           Loose papers in moldy binder.

File 307   **IBM: 650 sales school, March 25, 1957.** - 1957.
           Contents: ms. notes.
           Loose papers in moldy binder.

File 308   **[IBM]: Competitive machine seminar, June 3-4, 1959 (file 1 of 2).** - 1959.
           Contents: one binder containing material used for an IBM seminar for employees on new computers: RCA 501, Honeywell 800, Datatron 220, New Univac (UCT).

File 309   **[IBM]: Competitive machine seminar, June 3-4, 1959 (file 2 of 2).** - 1959.
           Contents: one binder containing material used for an IBM seminar for employees on new computers: RCA 501, Honeywell 800, Datatron 220, New Univac (UCT).

File 310   **[IBM]: Programming manual: a system of programming for the IBM tape 650 installation at the University of Toronto.** - 1959.
           Contents: ms. notes.
           Looseleaf moldy binder.

File 311   **[IBM]: Programming manual: a system of programming for the IBM tape 650 installation at the University of Toronto.** - 1959.
           Contents: ts. (photocopy).
           Untitled folder.

File 312   **[IBM]: Proposal for the installation of data processing equipment: Canadian General Electric Company Limited, Peterborough, Ontario.** - [1959?].
           Contents: one binder containing proposal.

File 313   **[IBM]: Proposal for the installation of data processing equipment: Canadian Tire Corporation Limited.** - 1959.
           Contents: binder containing proposal and brochures.

File 314   **[IBM]: Proposal for the installation of data processing equipment: Dominion Bureau of Statistics, volume one.** - [1959?].
   Contents: one of two binders containing proposal and brochures.

File 315   **[IBM]: Proposal for the installation of data processing equipment: Dominion Bureau of Statistics, volume two.** - 1958-[1959?].
   Contents: one of two binders containing proposal and brochures. Includes a publication with cover title: _Job load specifications pertaining to the establishment of a data processing centre in the Dominion Bureau of Statistics for the Government of Canada._

File 316   **[IBM]: Recommendation to the Canadian Wheat Board for the installation of IBM electronic data processing machines.** - 1958.
   Contents: proposal, signed by J.W. Graham as "Applied Science representative". Includes correspondence to and from J.W. Graham.
   Untitled.
   Loose papers.

File 317   **Information retrieval.** - 1967.
   Contents: binder containing a photocopy of a publication: Professional development seminar: file structures for on-line systems: outline and readings / Association for Computing Machinery. Includes lecture notes.

File 318   **List of home movies.** - 1957.
   Loose notebook.

File 319   **Maclean-Hunter.** - 1977.
   Correspondence: material relating to Financial Post back-up consulting by J. Wesley Graham for Maclean Hunter. Includes correspondence, reports, ms. notes.

File 320   **Management.** - 1963-1968.
   Contents: photocopied articles and other materials on being a manager.

File 321   **Management.** - 1965.
   Contents: photocopied articles on being a manager.

File 322   **Microtechnology Consultative Committee.** - 1982.
   Contents: material relating to the work of the Ministry of Education and Ministry of Colleges and Universities Microtechnology Consultative Committee. Includes correrspondence, minutes, working papers.

File 323   **Minutes of conversion meetings re Univac conversion of Revenue's systems.** - 1971.
   Contents: material relating to Univac's conversion of Ontario Dept of Revenue's Corporations Tax Branch applications. Includes correspondence, minutes, working papers.

File 324   **N.R.C. [National Research Council] correspondence, July 1965-Nov. 1966.** - 1965-1966.
   Contents: material relating to the National Research Council grants for computer research and work done by J. Wesley Graham as a representative of the NRC Associate Committee on Computers. Includes correspondence, speech re policies, J. Wesley Graham report on computing in the Maritime universities.

File 325   **N.R.C. [National Research Council]: report of working committee to APICS computer committee.** - 1966.
   Contents: photocopy.

File 326   **Ontario Dept. of Education Computer Science Study Committee.** - [196-].
   Contents: material relating to the work of a committee formed by the Ontario Dept. of Education re the teaching of computer science in the secondary schools. J. Wesley Graham was a member of this committee. The file contains one undated "publication": Computer science problems for assistance to teachers of the experimental program in computer science.
   Loose document.

File 327   **Ontario Dept. of Education Computer Science Study Committee, up to Dec. 1967.** - 1966-1967.
   Contents: material relating to the work of a committee formed by the Ontario Dept. of Education re the teaching of computer science in the secondary schools. J. Wesley Graham was a member of this committee. The file contains minutes, correspondence, notes, working papers.

File 328   **Ontario Dept. of Education Computer Science Study Committee, January - June , 1968.** - 1968-1970.
        Contents: material relating to the work of a committee formed by the Ontario Dept. of Education re the teaching of computer science in the secondary schools. J. Wesley Graham was a member of this committee. The file contains minutes, reports, correspondence, notes, working papers. Includes a 1970 curriculum document from the Ontario Dept. of Education: Computer science, senior division, 1970.

File 329   **Ontario Dept. of Education: Secondary School Computer Education Committee.** - 1965.
        Contents: correspondence, minutes, memoranda, Includes terms of reference, articles and other material relating to the work of the Ontario Dept. of Education Secondary School Computer Education Committee. J. Wesley Graham was a member of this committee.
        Untitled.
        Loose papers.

File 330   **Ontario Dept. of Education: Secondary School Computer Education Committee: names and addresses of computer users in Canada.** - [1965?].
        Contents: computer output.
        Loose papers.

File 331   **[Ontario Dept. of Education]: Student programming language.** - 1966.
        Contents: correspondence and documents relating to work done by J. Wesley Graham with E. Stewart Lee and T. Hull to recommend to the Ontario Minister of Education a student programming lanuage for use in secondary schools.

File 332   **Ontario Dept. of Municipal Affairs, Systems Development Branch: a plan for systems development.** - 1970.
        Contents: one binder containing report and recommendations on systems development in the Ontario Dept. of Municipal Affairs, dated Nov. 2, 1970.

File 333   **Prospectus: Cambridge Research and Development Group Inc.** - 1981.
        Contents: photocopy of prospectus.

File 334   **Prospectus: Mitel Corporation.** - 1981.
        Contents: photocopy of prospectus.

File 335   **Rutgers: The State University: consulting file.** - 1973.
        Contents: one list re audit of computing centre.

File 336   **Salary.** - 1986.
        Contents: material relating to compensation from various sources.

File 337   **Science Council report re software industry for Canada.** - 1970-1973.
        Contents: typescipt by J. Wesley Graham (original, ca. 80 p.) done at the request of the Science Council of Canada. It consists of a summary of his opinions concerning a software industry for Canada and includes "detailed information concerning [his] experience with software development at the University of Waterloo." It includes summaries of distribution and users of University of Waterloo software.

File 338   **Scientific Policy Advisor: ADP [Automatic Data Processing] Advisory Committee: ADP Task Force, Committee on Government Productivity [file 1 of 3].** - 1971.
        Contents: material relating to the Government of Ontario Automatic Data Processing Advisory Committee Task Force on Committee on Government Productivity. Includes correspondence, minutes, position papers, working papers.
        Loose papers.

File 339   **Scientific Policy Advisor: ADP [Automatic Data Processing] Advisory Committee: ADP Task Force, Committee on Government Productivity [file 2 of 3].** - 1971.
        Contents: material relating to the Government of Ontario Automatic Data Processing Advisory Committee Task Force on Committee on Government Productivity. Includes correspondence, minutes, position papers, working papers.
        Loose papers.

File 340   **Scientific Policy Advisor: ADP [Automatic Data Processing] Advisory Committee: ADP Task Force, Committee on Government Productivity [file 3 of 3].** - 1971.
        Contents: material relating to the Government of Ontario Automatic Data Processing Advisory Committee Task Force on Committee on Government Productivity. Includes correspondence, minutes, position papers, working papers.
        Loose papers.

File 341 **Scientific Policy Advisor: ADP [Automatic Data Processing] Advisory Committee: on Committee on Government Productivity (JWG is a member).** - 1970-1972.
   Contents: material relating to the Government of Ontario Automatic Data Processing Advisory Committee on Committee on Government Productivity, including background to the project and function ofthe committee. Includes correspondence, memoranda, minutes, reports and working papers.

File 342 **Scientific Policy Advisor: ADP [Automatic Data Processing] Advisory Committee: on Committee on Government Productivity (JWG is a member).** - 1971.
   Contents: material relating to the Government of Ontario Automatic Data Processing Advisory Committee on Committee on Government Productivity. Includes minutes, position paper on privacy and data banks..

File 343 **Scientific Policy Advisor: An approach to data processing within the Ontario government, Dec. 21, 1970.** - 1970.
   Contents: one loose report.
   Loose report.

File 344 **Scientific Policy Advisor: comments on reports, studies and consultations.** - 1971.
   Contents: material relating to Systems and Programming services for the Government Accounts Division, and on the A.D.P. Task Force's report on the Computer Services Centre. Consists of J. Wesley Graham's memoranda and draft reports.

File 345 **Scientific Policy Advisor: Committee on Government Productivity.** - 1970-1972.
   Contents: published interim reports of the Committee.

File 346 **Scientific Policy Advisor: Committee on Government Productivity [file 1 of 5].** - 1971-1972.
   Contents: material relating to the Committee on Government Productivity, especially to the role of management of information systems. Consists of J. Wesley Graham's background and working papers, including reports, minutes, memoranda, many confidential.

File 347 **Scientific Policy Advisor: Committee on Government Productivity [file 2 of 5].** - 1971-1972.
   Contents: material relating to the Committee on Government Productivity, especially to the role of management of information systems. Consists of J. Wesley Graham's background and working papers, including reports, minutes, memoranda, many confidential.

File 348 **Scientific Policy Advisor: Committee on Government Productivity [file 3 of 5].** - 1971-1972.
   Contents: material relating to the Committee on Government Productivity, especially to the role of management of information systems. Consists of J. Wesley Graham's background and working papers, including reports, minutes, memoranda, many confidential.

File 349 **Scientific Policy Advisor: Committee on Government Productivity [file 4 of 5].** - 1971-1972.
   Contents: material relating to the Committee on Government Productivity, especially to the role of management of information systems. Consists of J. Wesley Graham's background and working papers, including reports, minutes, memoranda, many confidential.

File 350 **Scientific Policy Advisor: Committee on Government Productivity [file 5 of 5].** - 1971-1972.
   Contents: material relating to the Committee on Government Productivity, especially to the role of management of information systems. Consists of J. Wesley Graham's background and working papers, including reports, minutes, memoranda, many confidential.

File 351 **Scientific Policy Advisor: Computer Services Board meetings [file 1 of 2].** - 1970-1973.
   Contents: material relating to the Government of Ontario Ministry of Treasury, Economics and Intergovernmental Affairs Computer Services Board. Includes correspondence, memoranda, ms. notes, minutes, reports and working papers.

File 352 **Scientific Policy Advisor: Computer Services Board meetings [file 2 of 2].** - 1970-1973.
   Contents: material relating to the Government of Ontario Ministry of Treasury, Economics and Intergovernmental Affairs Computer Services Board. Includes correspondence, memoranda, ms. notes, minutes, reports and working papers.

File 353   **Scientific Policy Advisor: Computer Services Board: policy and administration manual [file 1 of 3].** - 1968-1970.
    Contents: one binder containing material about the activities and operation of the Computer Services Board of the Government of Ontario. This is manual no. 10, belonging to L.E.S. Green, Scientific Policy Advisor. As well as the manual contents, the binder contains minutes and working papers of the Computer Services Board, the Technical Committee and the User's Advisory Committee.
    Loose manual.

File 354   **Scientific Policy Advisor: Computer Services Board: policy and administration manual [file 2 of 3].** - 1968-1970.
    Loose manual.

File 355   **Scientific Policy Advisor: Computer Services Board: policy and administration manual [file 3 of 3].** - 1968-1970.
    Loose manual.

File 356   **Scientific Policy Advisor: Computer Services Board: requests for proposal, reports.** - 1968-1971.
    Contents: material relating to the Government of Ontario Ministry of Treasury, Economics and Intergovernmental Affairs Computer Services Board. Consists of loose reports and requests for proposal.
    Untitled
    Loose publications and reports.

File 357   **Scientific Policy Advisor: Computer Services Centre.** - 1970-1973.
    Contents: material relating to the Government of Ontario Ministry of Treasury, Economics and Intergovernmental Affairs Computer Services Centre. Includes correspondence, memoranda, J. Wesley Graham notes, reports and working papers.

File 358   **Scientific Policy Advisor: Computer Services Centre: annual report 1971-1972.** - 1972.
    Contents: material relating to the Government of Ontario Ministry of Treasury, Economics and Intergovernmental Affairs Computer Services Centre.
    Loose report

File 359   **Scientific Policy Advisor: Computer Services Centre: audit by Dept. of Revenue.** - 1970.
    Contents: one loose report.
    Loose report.

File 360   **Scientific Policy Advisor: Computer Services Centre: manual no. 10, Professor J.W. Graham, Scientific Policy Advisor.** - 1971.
    Contents: material relating to the Government of Ontario Ministry of Treasury, Economics and Intergovernmental Affairs Computer Services Centre. Consists of one loose manual.
    Loose manual.

File 361   **Scientific Policy Advisor: Computer Services Centre: program conversion.** - 1970.
    Contents: one loose manual on conversion to Univac.
    Loose manual.

File 362   **Scientific Policy Advisor: Computer Services Centre: role and organization of the Computer Services Center's Systems and Programming Branch.** - 1971.
    Contents: material relating to the Government of Ontario Ministry of Treasury, Economics and Intergovernmental Affairs Computer Services Centre. Consists of one loose position paper.
    Loose report.

File 363   **Scientific Policy Advisor: Computer Services Centre: Systems and Programming Branch.** - 1971.
    Contents: material relating to the Government of Ontario Ministry of Treasury, Economics and Intergovernmental Affairs Computer Services Centre Systems and Programming Branch and its relationship to the Government Accounting Methods Branch. Consists of loose reports and photocopies of memoranda.
    Untitled
    Loose papers.

File 364   **Scientific Policy Advisor: contract: UNIVAC [file 1 of 2].** - 1970-1971.
    Contents: material relating to the Government of Ontario contract with Univac. Includes agreements, correspondence, memoranda, ms. notes, reports and working papers.

File 365   **Scientific Policy Advisor: contract: UNIVAC file 2 of 2].** - 1970-1971.
                          Contents: material relating to the Government of Ontario contract with Univac.
                  Includes agreements, correspondence, memoranda, ms. notes, reports and working papers.

File 366   **Scientific Policy Advisor: conversion to UNIVAC, 1970 [file 1 of 2].** - 1970.
                          Contents: material relating to the Government of Ontario conversion to Univac 1106.
                  Includes correspondence, memoranda, ms. notes, reports and working papers.

File 367   **Scientific Policy Advisor: conversion to UNIVAC, 1970 [file 2 of 2].** - 1970.
                          Contents: material relating to the Government of Ontario conversion to Univac 1106.
                  Includes correspondence, memoranda, ms. notes, reports and working papers.

File 368   **Scientific Policy Advisor: conversion to UNIVAC, 1971.** - 1971.
                          Contents: material relating to the Government of Ontario conversion to Univac 1106.
                  Includes correspondence, memoranda, reports and working papers.

File 369   **Scientific Policy Advisor: Financial information systems: progress reports.** - 1969-1971.
                          Contents: material relating to financial information systems implementation, also
                  estimates for re-conversion from Univac 1106 to I.B.M. programs. Includes progress reports,
                  correspondence, working papers.

File 370   **Scientific Policy Advisor: Financial information systems: progress reports.** - [1971].
                          Contents: material relating to the Dept. of Municipal Affairs electronic data processing
                  costs. Consists of tables of comparison.

File 371   **Scientific Policy Advisor: general.** - 1971-1972.
                          Contents: material relating to J. Wesley Graham's role as scientific Policy Advisor.
                  Includes correspondence, memoranda, ms. notes and draft documents, reports and working
                  papers.

File 372   **Scientific Policy Advisor: off-track betting task force.** - 1972.
                          Contents: material relating to J. Wesley Graham's role on the Ontario Task Force on
                  Off Track Betting. Includes correspondence, memoranda, ms. notes reports and working papers.

File 373   **Scientific Policy Advisor: off-track betting task force.** - 1972.
                          Contents: material relating to J. Wesley Graham's role on the Ontario Task Force on
                  Off Track Betting. Includes correspondence, ms. notes reports.

File 374   **Scientific Policy Advisor: off-track betting task force: Off track betting.** - 1971.
                          Contents: material on programming for off track betting for horse racing. Includes
                  ms. notes, computer output.

File 375   **Scientific Policy Advisor: off-track betting task force: totalisator companies.** - 1971-
                          1972.
                          Contents: material relating to J. Wesley Graham's role on the Ontario Task Force on
                  Off Track Betting. Includes correspondence, memoranda, ms. notes reports and working papers.

File 376   **Scientific Policy Advisor: payroll conversion [Univac].** - 1971.
                          Contents: material relating to J. Wesley Graham's role in payroll conversion. Includes
                  correspondence, minutes, reports.

File 377   **Scientific Policy Advisor: payroll conversion [Univac].** - 1971.
                          Contents: material relating to J. Wesley Graham's role in payroll conversion. Includes
                  correspondence, ms. notes and drafts, minutes, reports.

File 378   **Scientific Policy Advisor: personal matters.** - 1970-1972.
                          Contents: material relating to J. Wesley Graham's role as Scientific Policy Advisor to
                  the Computer Services Board. Includes biographical information, correspondence, agreements.

File 379   **Scientific Policy Advisor: personnel: position descriptions.** - 1969-1970.
                          Contents: general material relating to Government of Ontario Personnel Branch
                  position descriptions and salalry scales, especially of computing personnel.

File 380   **Scientific Policy Advisor: personnel: training.** - 1969-1970.
                          Contents: material relating to a report prepared by SDI Associates Ltd. of the training
                  needs of systems and programming groups in the government of Ontario. Includes photocopy
                  of handwritten draft, ts. final report, correspondence, minutes.

File 381   **Scientific Policy Advisor: travel expenses.** - 1970-1973.
                          Contents: completed travel expense forms for J. Wesley Graham.

File 382	**Scientific Policy Advisor: User's Advisory Committee.** - 1970-1973.

File 382 **Scientific Policy Advisor: User's Advisory Committee.** - 1970-1973.
Contents: material relating to the Computer Services Centre User's Advisory Committee. Consists of one report by Woods, Gordon & Co. for the Computer Service Board: Evaluation of information management systems for the Univac 1106 computer, Dec. 1970.

File 383 **Scientific Policy Advisor: User's Advisory Committee.** - 1970-1973.
Contents: material relating to the Computer Services Centre User's Advisory Committee. Consists of minutes, working papers, ms. notes and annotations by J. Wesley Graham.

File 384 **South America.** - 1967-1968.
Contents: material relating to trip to South America re consulting for IBM. Includes itinerary and expense information.

File 385 **Stage I report.** - 1983.
Contents: drafts, photocopies from : _Functional requirements for microcomputers for educational use in Ontario schools, stage I, released by Ontario Ministry of Education, March, 1983_.

File 386 **Stage II report.** - 1987.
Contents: draft summary, also a publication from the Ontario Ministry of Education: _Functional requirements for microcomputers for educational use in Ontario schools, stage II, draft only.

File 387 **Systems Dimensions Limited.** - 1969.
Contents: correspondence, reports relating to the business affairs of Systems Dimensions Ltd. J. Wesley Graham was on the Board of Directors. This folder contains a letter from SDL president with accompanying documents on the corporate responsibilities of SDL executives and a preliminary proposal for SDL to handle the work of the Computer Services Bureau, also a feasibility study of Multiple Access General Computer Corporation, Ltd. and analyses of the Canadian computer industry by Grant Johnson & Co. Ltd.
  Untitled.
  Loose papers.

File 388 **Systems Dimensions Limited.** - 1973.
Contents: correspondence, report relating to the business affairs of Systems Dimensions Ltd. J. Wesley Graham was on the Board of Directors. This folder contains a proposal for the formation of a shared-resource company for universities in Ontario by SENELCO, Nov. 1973, sent to J. Wesley Graham by the president of SDL.
  Untitled.
  Loose papers.

File 389 **Systems Dimensions Limited.** - 1976-1977.
Contents: minutes, correspondence, reports relating to the business affairs of Systems Dimensions Ltd. J. Wesley Graham was on the Board of Directors.
  Untitled.
  Loose papers.

File 390 **Systems Dimensions Limited.** - 1977.
Contents: minutes, financial statements, correspondence reports relating to the business affairs of Systems Dimensions Ltd. J. Wesley Graham was on the Board of Directors.
  Untitled.
  Loose papers.

File 391 **Systems Dimensions Limited.** - 1977-1978.
Contents: minutes, correspondence, reports relating to the business affairs of Systems Dimensions Ltd. J. Wesley Graham was on the Board of Directors.
  Untitled.
  Loose papers.

File 392 **Systems Dimensions Limited.** - 1978.
Contents: correspondence, minutes, financial statements, supporting documents for meetings, releases, etc. relating to the business affairs of Systems Dimensions Ltd., marked 'filing'. J. Wesley Graham was on the Board of Directors.

File 393 **Systems Dimensions Limited.** - 1978.
Contents: correspondence, minutes, financial statements, supporting documenst for meetings, releases, etc. relating to the business affairs of Systems Dimensions Ltd. J. Wesley Graham was on the Board of Directors.
  Untitled.
  Loose papers.

File 394   **Systems Dimensions Limited.** - 1978.
                  Contents: correspondence, minutes, financial statements, supporting documenst for
                  meetings, releases, etc. relating to the business affairs of Systems Dimensions Ltd. J. Wesley
                  Graham was on the Board of Directors.
                          Untitled.
                          Loose papers.

File 395   **[Systems Dimensions Limited]: background material on possible acquisitions.** - 1973.
                          Loose item.

File 396   **Systems Dimensions Limited: benchmark report to the University of Waterloo.** - 1970.
                          Loose item.

File 397   **Systems Dimensions Limited: billable computer usage summaries.** - 1969-1970.

File 398   **Systems Dimensions Limited: billable computer usage summaries.** - 1971.

File 399   **Systems Dimensions Limited: billable computer usage summaries.** - 1972.

File 400   **Systems Dimensions Limited: billable computer usage summaries.** - 1973.

File 401   **Systems Dimensions Limited: Board of Directors' meeting, Feb. 18, 1969.** - 1969.
                          Contents: background documents.
                          Loose duo-tang.

File 402   **Systems Dimensions Limited: Board of Directors' meeting, Nov. 8, 1973.** - 1973.
                          Contents: background documents.
                          Loose papers.

File 403   **Systems Dimensions Limited: Board of Directors' meeting, Sept. 24, 1975.** - 1975.
                          Contents: background documents.
                          Untitled.
                          Loose papers.

File 404   **Systems Dimensions Limited: Board of Directors' meetings and correspondence (file**
                  1 of 2). - 1968-1969.
                          Contents: minutes, correspondence.

File 405   **Systems Dimensions Limited: Board of Directors' meetings and correspondence (file**
                  2 of 2). - 1968-1969.
                          Contents: minutes, correspondence.

File 406   **Systems Dimensions Limited: Board of Directors' meetings and correspondence (file**
                  1 of 2). - 1970.
                          Contents: minutes, correspondence.

File 407   **Systems Dimensions Limited: Board of Directors' meetings and correspondence (file**
                  2 of 2). - 1970.
                          Contents: minutes, correspondence.

File 408   **Systems Dimensions Limited: Board of Directors' meetings and correspondence (file**
                  1 of 2). - 1971.
                          Contents: minutes, correspondence, releases.

File 409   **Systems Dimensions Limited: Board of Directors' meetings and correspondence (file**
                  2 of 2). - 1971.
                          Contents: minutes, correspondence, releases.

File 410   **Systems Dimensions Limited: Board of Directors' meetings and correspondence (file**
                  1 of 2). - 1972.
                          Contents: minutes, correspondence.

File 411   **Systems Dimensions Limited: Board of Directors' meetings and correspondence (file**
                  2 of 2). - 1972.
                          Contents: minutes, correspondence.

File 412   **Systems Dimensions Limited: Board of Directors' meetings and correspondence (file**
                  1 of 2). - 1973.
                          Contents: minutes, correspondence.

File 413   **Systems Dimensions Limited: Board of Directors' meetings and correspondence (file 2 of 2).** - 1973.
                  Contents: minutes, correspondence.

File 414   **Systems Dimensions Limited: Board of Directors' meetings and correspondence (file 1 of 2).** - 1974.
                  Contents: minutes, correspondence.

File 415   **Systems Dimensions Limited: Board of Directors' meetings and correspondence (file 2 of 2).** - 1974.
                  Contents: minutes, correspondence.

File 416   **Systems Dimensions Limited: Board of Directors' meetings and correspondence.** - 1975.
                  Contents: minutes, correspondence.

File 417   **Systems Dimensions Limited: Board of Directors' meetings.** - 1976.
                  Contents: minutes, memoranda, releases, reports.

File 418   **Systems Dimensions Limited: Brief on public policy and the marriage of communications services with computer services: to the Minister of Communications, Minister of Transport, Minister of Industry, Trade and Commerce and the President of the treasury Board, Ottawa, July 23, 1969 / presented by AGT Data Systems, et al.** - 1969.
                  Contents: one brief. Systems Dimension Limited is one of the presenters.
                  Loose publication.

File 419   **Systems Dimensions Limited: Brief to the Treasury Board EDP Policy Task Force, May 6, 1971 / Systems Dimensions Limited.** - 1971.
                  Loose item.

File 420   **Systems Dimensions Limited: Brief to the Treasury Board, Government of Canada, regarding the Computer Services Bureau, July 29, 1970.** - 1970.
                  Loose item.

File 421   **Systems Dimensions Limited.: [Corporate plan 1968]: Review of plans for establishing a Computer Service Bureau, Dec. 1968 / Booz, Allen & Hamilton Canada, Management Consultants.** - 1968-1969.
                  Contents: confidential assessment of SDL's business plans: copy sent to selected major financial institutions for confidential review.
                  Loose publication.

File 422   **Systems Dimensions Limited.: [Corporate Plan 1968]: Review of plans for establishing a Computer Service Bureau, draft, Dec. 1968 / Booz, Allen & Hamilton Canada, Management Consultants.** - 1968.
                  Contents: confidential assessment of SDL's business plans.
                  Loose items.

File 423   **Systems Dimensions Limited.: [Corporate Plan 1969]: Annual plan (1969-1970), pre-operating statements, March 12, 1968-June 30, 1969.** - 1969.
                  Loose item.

File 424   **Systems Dimensions Limited.: [Corporate Plan 1971]: SDL business plan: confidential: Oct. 25, 1971.** - 1971.
                  Loose item.

File 425   **Systems Dimensions Limited.: [Corporate Plan 1973]: Cable television in Canada, present and future, prepared as part of the SDL corporate plan / A. Van Wijk, March 1973, Draft #3, confidential.** - 1973.
                  Loose item.
                  Confidential.

File 426   **Systems Dimensions Limited.: [Corporate Plan 1973]: SDL 100: a corporate plan for SDL, 1973-1978: draft #5, June 22, 1973.** - 1973.
                  Loose item.
                  "Confidential."

File 427   **Systems Dimensions Limited.: [Corporate Plan 1974]: Corporate plan for SDL, 1974-1979, confidential, June 1974.** - 1974.
                  Loose item.
                  "Confidential."

File 428   **Systems Dimensions Limited.: [Corporate Plan 1975]: SDL corporate plan 1976-1980**
                  and the annual plan for 1975-1976: confidential, June 1975. - 1975.
                  Loose item.
                  "Confidential."

File 429   **Systems Dimensions Limited.: [Corporate Plan 1976]: SDL corporate plan 1977-1978.**
                  - 1976.
                  Loose item.

File 430   **Systems Dimensions Limited: [financial]: analysis of financial statements, June 30,**
                  1975. - 1975.
                  Loose item.

File 431   **Systems Dimensions Limited: [financial]: budget for year ended June 30, 1970,**
                  revised Nov. 1, 1969. - 1969.
                  Loose item.

File 432   **Systems Dimensions Limited: [financial]: cash forecast for period Dec. 1, 1960 to**
                  June 30, 1970. - 1969.
                  Loose item.

File 433   **Systems Dimensions Limited: financial statements.** - 1969-1970.
                  Contents: monthly statements.

File 434   **Systems Dimensions Limited: financial statements (file 1 of 2).** - 1969-1974.
                  Loose papers.

File 435   **Systems Dimensions Limited: financial statements (file 2 of 2).** - 1969-1974.
                  Loose papers.

File 436   **Systems Dimensions Limited: financial statements.** - 1971.
                  Untitled folder.

File 437   **Systems Dimensions Limited: financial statements.** - 1971.
                  Contents: monthly and other statements.

File 438   **Systems Dimensions Limited: financial statements.** - 1972.
                  Contents: monthly and other statements.

File 439   **Systems Dimensions Limited: financial statements.** - 1973.
                  Contents: monthly and other statements.

File 440   **Systems Dimensions Limited: financial statements.** - 1974.

File 441   **Systems Dimensions Limited: financial statements.** - 1975.

File 442   **Systems Dimensions Limited: financial statements.** - 1976.

File 443   **Systems Dimensions Limited: [Organization of SDL 1970].** - [1970].
                  Contents: description of organization, personnel, operations.
                  Loose item.

File 444   **Systems Dimensions Limited: organization of SDL, Feb. 6, 1973.** - 1973.
                  Contents: description of revised organization, operations.
                  Loose item.

File 445   **Systems Dimensions Limited: organization of SDL, Feb. 26, 1976.** - 1976.
                  Contents: description of revised organization, operations.
                  Loose item.
                  "Confidential."

File 446   **Systems Dimensions Limited: organization of SDL, Nov. 23, 1973.** - 1973.
                  Contents: description of revised organization, operations.
                  Loose item.

File 447   **Systems Dimensions Limited: proposed conversion of debentures, June 30, 1973.** -
                  1973.
                  Loose item.

File 448   **Systems Dimensions Limited: prospectus, April 30, 1970.** - 1970.
Contents: prospectus.
Loose item.
Confidential.

File 449   **Systems Dimensions Limited: re acquisition of Source Data Control Limited., Dec. 20, 1972.** - 1972.
Loose papers.

File 450   **Systems Dimensions Limited: re AGT.** - 1969-1971.
Contents: materials re marketing agreement, Takeover of AGT by SDL.

File 451   **Systems Dimensions Limited, SDL International Inc., Softwarehouse Limited: memorandum of recommendations on improvements required to the companies' internal control and accounting procedures.** - 1973.
Contents: recommendations by Price Waterhouse.
Loose item.

File 452   **Systems Dimensions Limited: SDL's Model 85: revenue capacity, June 17, 1971: confidential.** - 1971.
Loose item.
Confidential.

File 453   **TRACE [Toronto Region Association of Computer Educators].** - 1977-1979.
Contents: minutes of meetings.

File 454   **TRACE [Toronto Region Association of Computer Educators].** - 1980.
Contents: minutes of meetings.

File 455   **UNI-COLL Corporation: consulting file.** - 1971.
Contents: one package of background information: history, structure and by-laws of UNI-COLL.

File 456   **University of New York at Buffalo: consulting file.** - 1974.
Contents: correspondence, ms. notes.

File 457   **University of Saskatchewan.** - 1971-1972.
Contents: report by J. Wesley Graham: technical evaluation of one-machine and two-machine proposals for the University of Saskatchewan / by J.W. Graham, April 19, 1972, as well as supporting documentation from the university.
Untitled.
Loose papers.

File 458   **University of Saskatchewan.** - 1971-1972.
Contents: report by J. Wesley Graham: technical evaluation of one-machine and two-machine proposals for the University of Saskatchewan / by J.W. Graham, April 19, 1972.
Untitled.
Loose papers.

File 459   **University policy: problems.** - 1981.
Contents: ms. notes etc. re expenses.

File 460   **Urban preliminary list of electors: electoral district of Waterloo North, City of Waterloo, urban polling division no. 122.** - 1962.
Contents: one printed item.
Loose item.

File 461   **VISA [UW appointment to Adjunct re-appointment].** - 1997.
Restricted.

File 462   **Water ski.** - 1978-1981.
Contents: general file containing material on jump measurement programs and systems as well as World Water Ski Championships. Includes correspondence, program documentation, tables, ms. notes.

File 463   **Water ski.** - 1979.
Contents: contains overhead transparencies of humorous drawings of J. Wesley Graham's experiences with water ski and the computerized jump measurement system.
Untitled file.

File 464   **Water ski.** - 1979.
                  Contents: masters for two jump measurement system programs.

File 465   **Water ski.** - 1979.
                  Contents: material relating to the 16th World Water Skiing championships held in
                  Toronto, Sept. 16-23, 1979, in particular the question of an automated scoring system.
                  Includes correspondence, ms. notes, calculations, etc.

File 466   **Water ski.** - 1979-[198-].
                  Contents: printed material on external products: converters. Includes one birthday
                  photograph.

File 467   **[Water Ski]: Artwork records.** - [198-?].
                  Contents: lists of drawings done, categorized by subject, dated, with author.
                  Includes Water Ski? Subjects: PET, Miscellaneous, Security, Scoreboard, Jumpmeter, Burners,
                  Microwat. Is this all water ski?
                  Loose papers

File 468   **[Water ski]: Georgia Masters.** - 1979.
                  Contents: material re computerized scoring assistance in the 1980 Masters tournament.

File 469   **[Water ski]: HP-110 Portable Plus: Assembler/Basic.** - 1988.
                  Contents: ms. notes, computer output, photocopies.
                  Loose publication.

File 470   **[Water ski]: HP-110 stuff.** - 1985.
                  Contents: computer output, two 3.5" diskettes.
                  Contains two 3.5" diskettes.

File 471   **[Water ski]: Johnson jump meter: instruction manual, rev. Nov. 1975.** - 1975.
                  Loose publication.

File 472   **[Water ski]: Jump meter printout.** - 1986.
                  Untitled.
                  Loose printout.

File 473   **[Water ski]: Jump meter system: 'external' documentation: originals: #2, controller**
                  not included. - 1983.
                  Contents: original ts., hand-drawn figures. Title: "Waterski jump system".

File 474   **[Water ski]: JWG notes.** - 1979.
                  Contents: telephone messages, ms. notes on Series/1, diagrams.
                  Untitled file.

File 475   **[Water ski]: Masters games, Aug. 17, 1985.** - 1985.
                  Contents: computer output.
                  Loose papers.

File 476   **[Water Ski]: MC 146805E2 data sheets.** - [198-].
                  Contents: Motorola 8 bit microprocessor unit manual, photocopy.
                  Loose publication.

File 477   **[Water ski]: Meter calibration data.** - 1983-1984.
                  Contents: one binder of graphs, loose papers and three titled folders of ms. notes and
                  calculations inserted.
                  Loose binder.

File 478   **Water ski overheads.** - [197?].
                  Contents: masters (photocopies) of cartoons for transparencies.

File 479   **Water ski program.** - [197?].
                  Contents: programming notes.

File 480   **Water ski program, Aug. 15, 1983** - 1983.
                  Untitled.
                  Computer output, loose.

File 481   **Water ski results [file 1 of 2].** - 1979.
                  Contents: material relating to the 16th World Water Skiing championships held in
                  Toronto, Sept. 16-23, 1979. Includes ms. notes, calculations, computer output., lists of results.

File 482   **Water ski results [file 2 of 2].** - 1979.
                  Contents: material relating to the 16th World Water Skiing championships held in
                  Toronto, Sept. 16-23, 1979. Includes ms. notes, calculations, computer output., lists of results.

File 483   **[Water ski]: scoreboard: animate scoreboard.** - [198-].
                  Contents: ms. notes, diagrams.

File 484   **[Water ski]: scoreboard: controller: computer (cmos) hardware** - 1984.
                  Contains 1 5.25" floppy diskette.

File 485   **[Water ski]: scoreboard: controller: computer proposals.** - 1983.

File 486   **[Water ski]: scoreboard: controller: software: MWatt.** - 1984.

File 487   **[Water ski]: scoreboard: controller: UofT computer.** - 1982-1983.

File 488   **[Water ski]: scoreboard: controlling device: software.** - [198-].
                  Contents: ms. notes, diagrams.

File 489   **[Water ski]: scoreboard driver: software.** - 1983-1984.
                  Contents: ms. notes, diagrams.

File 490   **[Water ski]: scoreboard driver software.** - 1988.
                  Contents: ms. notes, 1 computer diskette.
                  Includes 1 5.25" diskette

File 491   **[Water ski]: scoreboard driver: software/waterski.** - [198-].
                  Contents: ms. notes, diagrams, computer output, computer diskette.
                  Contains 1 5.25" diskette labelled Scoreboard driver DOS 2-0.

File 492   **[Water ski]: scoreboard, general: correspondence.** - 1983.

File 493   **[Water ski]: scoreboard, general: design ideas.** - 1983.

File 494   **[Water ski]: scoreboard, general: flipdisk scoreboard interim report.** - 1983.
                  Untitled folder.

File 495   **[Water ski]: scoreboard, general: flipdisk scoreboard interim report: rough work,
                  drawings.** - [1983].

File 496   **[Water ski]: scoreboard, general: radio communications link.** - 1983-1984.

File 497   **[Water ski]: scoreboard, general: raft design.** - [1983].

File 498   **[Water ski]: scoreboard: hardware bugs, secondary flip problem, summer 1983.** -
                  1983.

File 499   **[Water ski]: scoreboard: hardware bugs, summer 1983.** - 1983.

File 500   **[Water ski]: scoreboard: heat sheilds[sic]: environmental test.** - 1984.

File 501   **[Water ski]: scoreboard: interface: remote reset.** - [198-].

File 502   **[Water ski]: scoreboard: logical system description, physical system description.** -
                  [198-?].
                  Contents: computer output, diagrams, ms. notes.
                  Loose binder.

File 503   **[Water ski]: scoreboard module driver card transparencies, March 23, 1983.**
                  Untitled.
                  Transparencies, loose.

File 504   **[Water ski]: scoreboard: obsolete info.** - 1983-1985.

File 505   **[Water ski]: scoreboard: panel: assembly notes.** - 1984.

File 506   **[Water ski]: scoreboard: panel cable.** - 1983-1984.

File 507   **[Water ski]: scoreboard: panel flipdisks. (external products hanging file).** - 1981-1983.

File 508   **[Water ski]: scoreboard: panel interface.** - 1984.

File 509   **[Water ski]: scoreboard: panel: module driver card: assembly diagrams.** - [198-].

File 510   **[Water ski]: scoreboard: panel: module driver card: data sheets.** - [198-].

File 511   **[Water ski]: scoreboard: panel: module driver card: schematics and parts list.** - 1984.

File 512   **[Water ski]: scoreboard: panel: module driver card: software.** - 1983.

File 513   **[Water ski]: scoreboard: panel: test results (speed, thermal, DV/DT).** - 1984.

File 514   **[Water ski]: scoreboard: panel: waterproofing.** - [198-].

File 515   **[Water ski]: scoreboard: potting compounds (external products hanging file).** - [1984].
            Includes artifacts.

File 516   **[Water ski]: scoreboard: power supply.** - 1983.

File 517   **[Water ski]: scoreboard: power supply: battery.** - 1985.

File 518   **[Water ski]: scoreboard: power supply: battery undervoltage protection circuit (external products hanging file).** - 1984.

File 519   **[Water ski]: scoreboard: power supply: DC-DC converters (external products hanging file).** - [198-].

File 520   **[Water ski]: scoreboard: power supply requirements.** - 1983-1984.

File 521   **[Water ski]: scoreboard: pulse supply #1.** - 1983.

File 522   **[Water ski]: scoreboard: pulse supply #2: assembly diagrams.** - 1984.

File 523   **[Water ski]: scoreboard: pulse supply crowbar circuit.** - 1983.

File 524   **[Water ski]: scoreboard: raft and transport (external products hanging file).** - [198-].

File 525   **[Water ski]: scoreboard: Secondary flip problem of the scoreboard display system / Eric Dormer, 2B Electrical Engineering, May 8, 1984.** - [198-].
            Contents: work term report done for Engineering Dept. of the Computer Systems Group.

File 526   **[Water ski]: scoreboard: "Technical manual for jump measurement using a computer system to simulate master board operation".** - [198-].
            Contents: compilation by J. Wesley Graham of notes and data.
            Loose publication.

File 527   **[Water ski]: scoreboard: VM/SP conversational monitor system.** - [198-].
            Untitled.
            Computer output, loose.

File 528   **[Water ski]: site calibrations.** - 1984.
            Contents: computer output.

File 529   **[Water ski]: Waterloo Regional Sports Council.** - 1973-1974.
            Contents: material re the Western Ontario Women's Summer Games. Includes correspondence and minutes.

File 530   **[Water Ski]: World Water ski Championships, Toronto, 1979.** - 1979.
            Contents: material re the 16th World Water Ski Championships, held Toronto, Sept. 1979. Includes ephemera, ms. notes, correspondence.
            Untitled loose papers.

File 531   **[Water Ski]: World Water ski Championships, Toronto, 1979.** - 1979.
            Contents: material re the 16th World Water Ski Championships, held Toronto, Sept. 1979. Includes ephemera, ms. notes and calculations, computer printouts.
            Untitled folder.

File 532   **[Water Ski]: World Water ski Championships, Toronto, 1979.** - 1979.
        Contents: material re the 16th World Water Ski Championships, held Toronto, Sept.
1979. Consists of computer printouts.
        Untitled.
        Loose printouts.

File 533   **[Water Ski]: World Water ski Championships, Toronto, 1979.** - 1979.
        Contents: material re the 16th World Water Ski Championships, held Toronto, Sept.
1979. Contains volunteer worker information forms.
        Untitled file.

File 534   **[Water Ski]: World Water ski Championships, 1981.** - 1981.
        Contents: material re the 17th World Water Ski Championships, held In London,
England, 1981. Includes ms. notes, results.
        Untitled file.

File 535   **[Water Ski]: World Water ski Championships, 1981.** - 1981.
        Contents: material re the 17th World Water Ski Championships, held In London,
England, 1981. Includes schedules and results.
        Untitled file.

File 536   **Waterski.** - 1988.
        Contents: ms., ts. notes, diagrams.

File 537   **Waterski.** - 1989.
        Contents: ms. notes.

File 538   **Waterski: APL jump calc.** - [198-].
        Contents: five diskettes.
        Contains 5 5.25" diskettes.

File 539   **Waterski: APL: scoreboard test, jumpmeter calibration.** - [198-].
        Contents: one diskettes.
        Contains 1 5.25" diskette.

File 540   **Waterski: diskettes.** - 1985.
        Contains four 5.25" diskettes.

File 541   **Waterski: document source.** - 1983.
        Contents: five diskettes, slides.
        Contains 6 5.25" diskettes, 1 box of slides.

File 542   **Waterski: M6805: development system.** - [198-].
        Contents: seven diskettes.
        Contains 7 5.25" diskettes.

File 543   **Waterski meter diagrams by John Malone.** - 1982.
        Loose papers, photocopies.

File 544   **Watski [Computer Jump Measurement System]: battery powered mWAT summer, 1983.** - 1983.

File 545   **Watski [Computer Jump Measurement System]: competition data, 1984.** - 1984.
        Contents: computer output.

File 546   **Watski [Computer Jump Measurement System]: competition data, Aug. 19-21, 1983.**
        - 1983.
        Contents: ms. notes, computer output.

File 547   **Watski [Computer Jump Measurement System]: Ferranti-Packard display systems catalogue.** - [198-?].
        Untitled.
        publication, loose.

File 548   **Watski [Computer Jump Measurement System]: instructions for use, April 12, 1984.** -
        1984.

File 549   **WatSki [Computer Jump Measurement System]: jump measurement system users guide.** - [198-].

File 550   **Watski [Computer Jump Measurement System]: jump meter construction, Jim Allen.** -
                  [1984].

File 551   **Watski [Computer Jump Measurement System]: jump meter interface description to
                  RS-232.** - [198-].

File 552   **Watski [Computer Jump Measurement System]: jump meter invention: parts list.** -
                  1984.

File 553   **Watski [Computer Jump Measurement System]: jump meter system #1,
                  modifications, summer, 1980.** - 1980.

File 554   **Watski [Computer Jump Measurement System]: jump meter system #1, proposed
                  changes to 1st system, summer, 1980.** - 1980.

File 555   **Watski [Computer Jump Measurement System]: jump meter system #1, summer
                  1979.** - 1979..
                  Contents: "Jerry K. original notes", schematics, etc.

File 556   **Watski [Computer Jump Measurement System]: jump meter system # 2: drawings,
                  originals.** - [198-].

File 557   **Watski [Computer Jump Measurement System]: jump system 2: battery charger,
                  summer, 1983.** - 1983.
                  Contents: hand drawn diagrams.

File 558   **Watski [Computer Jump Measurement System]: jump system #2: development:
                  communications.** - [1982].

File 559   **Watski [Computer Jump Measurement System]: jump system #2: development:
                  interfacing to TRS 80/100, cassette for d[evelopment]? MWat, spring 1983.** -
                  1983.

File 560   **Watski [Computer Jump Measurement System]: jump system #2: MWat demo: jump
                  calc., APL-WSL, spring 1983.** - 1983.

File 561   **Watski [Computer Jump Measurement System]: jump system 2: mwatt [microwatt]
                  development phase: low voltage warning, summer 1983.** - 1983.

File 562   **Watski [Computer Jump Measurement System]: jump system #2: original evaluation
                  of Pot.** - 1981.

File 563   **WatSki [Computer Jump Measurement System]: jump system #2: problems, TRS
                  80/100, summer, 1983.** - 1983.

File 564   **Watski [Computer Jump Measurement System]: jump system 2, summer 1983:
                  optimization of site calibration using redundent[sic] data.** - 1983.

File 565   **Watski [Computer Jump Measurement System]: jump system between 1 & 2:
                  software for mWATT as controller/calculator.** - 1983.

File 566   **Watski [Computer Jump Measurement System]: jump system program notes.** - 1984.

File 567   **Watski [Computer Jump Measurement System]: message board controller.** - 1980.

File 568   **Watski [Computer Jump Measurement System]: miscellaneous jumpmeter and
                  scoreboard schematics.** - [198-].

File 569   **Watski [Computer Jump Measurement System]: obsolete.** - 1983.

File 570   **Watski [Computer Jump Measurement System]: obsolete master lists.** - 1984.

File 571   **Watski [Computer Jump Measurement System]: orders.** - 1984.

File 572   **Watski [Computer Jump Measurement System]: orders, done.** - 1983-1984.

File 573   **Watski [Computer Jump Measurement System]: packing lists.** - 1983-1984.

File 574   **Watski [Computer Jump Measurement System]: panel info, obsolete.** - 1984.

File 575   **Watski [Computer Jump Measurement System]: panel orders.** - 1984.

File 576   **Watski [Computer Jump Measurement System]: panel orders, done.** - 1984.

File 577   **Watski [Computer Jump Measurement System]: part numbering system.** - 1984.

File 578   **Watski [Computer Jump Measurement System]: PMS Watfile, general.** - 1983.

File 579   **Watski [Computer Jump Measurement System]: problems, 1984.** - 1985.

File 580   **Watski [Computer Jump Measurement System]: project management, 1985.** - 1985.
                  Contents: ms., ts. notes, reports.

File 581   **Watski [Computer Jump Measurement System]: project status, March 13, 1985.** - 1985.

File 582   **Watski [Computer Jump Measurement System]: state machine emulator, Fall 1982.** - 1982.

File 583   **Watski [Computer Jump Measurement System]: system documentation (file 1 of 2).** - [198-].
                  Untitled binder.

File 584   **Watski [Computer Jump Measurement System]: system documentation (file 2 of 2).** - [198-].
                  Untitled binder.

File 585   **Watski [Computer Jump Measurement System]: system documentation.** - 1984.
                  Contents: computer output
                  Untitled binder.

File 586   **Watski [Computer Jump Measurement System]: tricks, timer.** - 1980.

File 587   **Watski [Computer Jump Measurement System]: tricks, timer setup.** - [1980?].

File 588   **Watski [Computer Jump Measurement System]: TRS 80/100 jump system, [file] 1.** - 1983.

File 589   **Watski [Computer Jump Measurement System]: TRS 80/100 jump system, [file] 2, basic programs v1.0.** - [1983].

File 590   **Watski [Computer Jump Measurement System]: Watski v2: source listing.** - 1984.

File 591   **Watski photos.** - [198-].
                  Snapshots, slides.

File 592   **Work: personal.** - [1972?].
                  Contents: resignation draft.
                  Restricted.

Series 3.1 :   Works: Manuscripts

File 0   **Works: manuscripts.** - [196-]-1992.
                  Series consists of material relating to articles and books written or co-authored by J. Wesley Graham. It includes manuscripts and typescripts of various sorts, including computer output, and contains also any publisher's correspondence relating to individual titles. There is some overlap between this series and Series 5.2 UW: Teaching: Workshops, as some book manuscripts were developed from workshops and it is not always possible to determine whether a given manuscript is intended for a workshop manual or for publication as a book.
                  Title from content of the series.

File 593   **Algebra and solid geometry.** - [196-].
                  Contents: ms. notes for book by [Wes Graham?], organized by chapter.

File 594   **Algebra and solid geometry part II.** - [196-].
                  Contents: draft manuscript (ts. copy, 81 p.), 10 p. ms. notes: Wes Graham's contribution to _Contemporary mathematics_?
                  Untitled folder.

File 595   **Algorithms for digital computers.** - [19--].
                    Contents: galley proofs, two copies, ms. annotations, corrections, insertions. Chapter
            15 of ????
                    Loose papers.

File 596   **The allocation and scheduling of computer resources / D.D. Cowan, J.W. Graham,**
                    Dept. of Applied Analysis & Computer Science, University of Waterloo. - [196-
            ?].
                    Contents: ts., 24 p. (photocopy)
                    Report.
            Added Entries: Cowan, D.D.

File 597   **Assembler language.** - 1992.
                    Contents: untitled manuscript with not "Cover page: assembler language." Consist of
            ca. 200p. of mixed ts. and ms.
                    Untitled.
                    Loose papers.

File 598   **BASIC book 'errors'.** - 1981.
                    Contents: 1 sheet of notes.

File 599   **Book.** - [197-?].
                    Contents: master ts. consisting of pasted-up computer output of An introduction to
            WATIAC and WATMAP / Cooper, Cowan, Dirksen, Graham, Penton, Treadwell, Part 1.

File 600   **Book typescript.** - [196-?].
                    Contents: ts. (photocopies, 215 p.) of eight chapters of a book [by J.W.G.?].
                    Untitled.
                    Loose papers.

File 601   **Brief history of digital computation [by J. W. Graham].** - [1966].
                    Contents: a history by J. Wesley Graham of computers at the University of Waterloo,
            especially their use in teaching and education. Contains some comparisons with other
            institutions. Consists of a mixture of typescript and manuscript drafts. Includes a table:
            "Computer costs at the University of Waterloo, July 1, 1963-1975 [much of this is projected]
            and a hand drawn chart of intended computing purchases. .
                    Untitled folder.

File 602   **COBOL book.** - [198-?].
                    Contents: computer printout, edited but untitled, of twelve chapters of a book about
            COBOL. Chapter 1 is entitled "The Easy-go Credit Card Company."
                    Untitled.
                    Loose printouts.

File 603   **Cobol book.** - 1974.
                    Contents: ts. (computer output) of the second edition of File processing with
            COBOL/WATBOL by R.H. Cooper, D.D.Cowan, P.H. Dirksen and J.W. Graham. Includes preface,
            copyright, text of chapters 1-18, appendices text, index.
                    Title "Cobol book" from box.
                    Loose printout.

File 604   **Cobol book: examples.** - 1974.
                    Contents: ts. (computer output) of examples for the second edition of ???? by R.H.
            Cooper, D.D.Cowan, P.H. Dirksen and J.W. Graham.
                    Title "Cobol book" from box.
                    Loose printout.

File 605   **Cobol book: I [File processing with COBOL/WATBOL].** - 1974.
                    Contents: master ts. consisting of pasted-up computer output of the second edition of
            File processing with COBOL/WATBOL by R.H. Cooper, D.D.Cowan, P.H. Dirksen and J.W.
            Graham.
                    Title "Cobol book" from box. Sub-title from folder.

File 606   **Cobol book: chapter 1, pgs. 1-8.** - 1974.
                    Contents: master ts. consisting of pasted-up computer output of the second edition of
            File processing with COBOL/WATBOL by R.H. Cooper, D.D.Cowan, P.H. Dirksen and J.W.
            Graham.
                    Title "Cobol book" from box. Sub-title from folder.

File 607   **Cobol book: chapter 2, pgs. 9-26.** - 1974.
                  Contents: master ts. consisting of pasted-up computer output of the second edition of
                  File processing with COBOL/WATBOL by R.H. Cooper, D.D.Cowan, P.H. Dirksen and J.W.
                  Graham.
                          Title "Cobol book" from box. Sub-title from folder.

File 608   **Cobol book: chapter 3, pgs. 27-33.** - 1974.
                  Contents: master ts. consisting of pasted-up computer output of the second edition of
                  File processing with COBOL/WATBOL by R.H. Cooper, D.D.Cowan, P.H. Dirksen and J.W.
                  Graham.
                          Title "Cobol book" from box. Sub-title from folder.

File 609   **Cobol book: chapter 4, pgs. 34-60.** - 1974.
                  Contents: master ts. consisting of pasted-up computer output of the second edition of
                  File processing with COBOL/WATBOL by R.H. Cooper, D.D.Cowan, P.H. Dirksen and J.W.
                  Graham.
                          Title "Cobol book" from box. Sub-title from folder.

File 610   **Cobol book: chapter 5, pgs. 61-70.** - 1974.
                  Contents: master ts. consisting of pasted-up computer output of the second edition of
                  File processing with COBOL/WATBOL by R.H. Cooper, D.D.Cowan, P.H. Dirksen and J.W.
                  Graham.
                          Title "Cobol book" from box. Sub-title from folder.

File 611   **Cobol book: chapter 6, pgs. 71-79.** - 1974.
                  Contents: master ts. consisting of pasted-up computer output of the second edition of
                  File processing with COBOL/WATBOL by R.H. Cooper, D.D.Cowan, P.H. Dirksen and J.W.
                  Graham.
                          Title "Cobol book" from box. Sub-title from folder.

File 612   **Cobol book: chapter 7, pgs. 80-99.** - 1974.
                  Contents: master ts. consisting of pasted-up computer output of the second edition of
                  File processing with COBOL/WATBOL by R.H. Cooper, D.D.Cowan, P.H. Dirksen and J.W.
                  Graham.
                          Title "Cobol book" from box. Sub-title from folder.

File 613   **Cobol book: chapter 8, pgs. 100-125.** - 1974.
                  Contents: master ts. consisting of pasted-up computer output of the second edition of
                  File processing with COBOL/WATBOL by R.H. Cooper, D.D.Cowan, P.H. Dirksen and J.W.
                  Graham.
                          Title "Cobol book" from box. Sub-title from folder.

File 614   **Cobol book: chapter 9, pgs. 126-149.** - 1974.
                  Contents: master ts. consisting of pasted-up computer output of the second edition of
                  File processing with COBOL/WATBOL by R.H. Cooper, D.D.Cowan, P.H. Dirksen and J.W.
                  Graham.
                          Title "Cobol book" from box. Sub-title from folder.

File 615   **Cobol book: chapter 10, pgs. 150-155.** - 1974.
                  CContents: master ts. consisting of pasted-up computer output of the second edition
                  of File processing with COBOL/WATBOL by R.H. Cooper, D.D.Cowan, P.H. Dirksen and J.W.
                  Graham.
                          Title "Cobol book" from box. Sub-title from folder.

File 616   **Cobol book: chapter 11, pgs. 156-172.** - 1974.
                  Contents: master ts. consisting of pasted-up computer output of the second edition of
                  File processing with COBOL/WATBOL by R.H. Cooper, D.D.Cowan, P.H. Dirksen and J.W.
                  Graham.
                          Title "Cobol book" from box. Sub-title from folder.

File 617   **Cobol book: chapter 12, pgs. 173-180.** - 1974.
                  Contents: master ts. consisting of pasted-up computer output of the second edition of
                  File processing with COBOL/WATBOL by R.H. Cooper, D.D.Cowan, P.H. Dirksen and J.W.
                  Graham.
                          Title "Cobol book" from box. Sub-title from folder.

File 618   **Cobol book: chapter 13, pgs. 181-195.** - 1974.
                  Contents: master ts. consisting of pasted-up computer output of the second edition of
                  File processing with COBOL/WATBOL by R.H. Cooper, D.D.Cowan, P.H. Dirksen and J.W.
                  Graham.
                          Title "Cobol book" from box. Sub-title from folder.

File 619   **Cobol book: chapter 14, pgs. 196-209.** - 1974.
        Contents: master ts. consisting of pasted-up computer output of the second edition of File processing with COBOL/WATBOL by R.H. Cooper, D.D.Cowan, P.H. Dirksen and J.W. Graham.
        Title "Cobol book" from box. Sub-title from folder.

File 620   **Cobol book: chapter 15, pgs. 210-227.** - 1974.
        Contents: master ts. consisting of pasted-up computer output of the second edition of File processing with COBOL/WATBOL by R.H. Cooper, D.D.Cowan, P.H. Dirksen and J.W. Graham.
        Title "Cobol book" from box. Sub-title from folder.

File 621   **Cobol book: chapter 16, pgs. 228-256.** - 1974.
        Contents: master ts. consisting of pasted-up computer output of the second edition of File processing with COBOL/WATBOL by R.H. Cooper, D.D.Cowan, P.H. Dirksen and J.W. Graham.
        Title "Cobol book" from box. Sub-title from folder.

File 622   **Cobol book: chapter 17, pgs. 257-286.** - 1974.
        Contents: master ts. consisting of pasted-up computer output of the second edition of File processing with COBOL/WATBOL by R.H. Cooper, D.D.Cowan, P.H. Dirksen and J.W. Graham.
        Title "Cobol book" from box. Sub-title from folder.

File 623   **Cobol book: chapter 18, pgs. 287-293.** - 1974.
        Contents: master ts. consisting of pasted-up computer output of the second edition of File processing with COBOL/WATBOL by R.H. Cooper, D.D.Cowan, P.H. Dirksen and J.W. Graham.
        Title "Cobol book" from box. Sub-title from folder.

File 624   **Cobol book: appendix A-K, pgs. 294-336.** - 1974.
        Contents: master ts. consisting of pasted-up computer output of the second edition of File processing with COBOL/WATBOL by R.H. Cooper, D.D.Cowan, P.H. Dirksen and J.W. Graham.
        Title "Cobol book" from box. Sub-title from folder.

File 625   **COBOL book.** - 1978.
        Contents: ms. notes, correspondence about new edition.

File 626   **[COBOL book]: Control Break.** - [1977?].
        Contents: material about the control-break problem. Includes a report by Kenneth T. Lavigne on Basic program design : the Jackson way, transparencies and photocopies of examples.
        Note on folder: "18.1-18.5", probably chaper 18, examples 1 to 5.

File 627   **COBOL/WATBOL book: French COBOL book.** - 1975-1976.
        Contents: material relating to a French translation of the COBOL/WATBOL text.

File 628   **COBOL/WATBOL book: miscellaneous.** - 1976-1977.
        Contents: material relating to suggestions for changes in a new edition of the COBOL/WATBOL book.

File 629   **COBOL/WATBOL book: miscellaneous: errors.** - 1979.
        Contents: material relating to errors needing attention in a new edition of the COBOL/WATBOL text.

File 630   **Computer Science in Engineering / J.W. Graham, University of Waterloo, August 1964.** - 1964.
        Contents: ts., 11 p. (photocopy)
        On t.p. : "Submitted for publication in Engineering Digest."
        Stapled in report cover for Digital Computing Centre, University of Waterloo.

File 631   **Computing at Waterloo: a historical perspective, June 9, 1976: draft for B.C. Matthews.** - 1976.
        Contents: ts. (computer output).

File 632   **Contemporary mathematics, book 3 (Grade 9).** - [196-].
        Contents: advertising flyer for a book for which J. Wesley Graham was a contributing author.
        Untitled.
        Loose items.

File 633   **[Data directed design]: Chapter 1: using diagrams to describe structure.** - [197-?].
Contents: photocopy without diagrams, ms. notes.
Loose papers.

File 634   **Data directed design diagrams, Oct. 1985 [file 1 of 2].** - 1985.
Contents: one binder of transparencies, divided into chapters, intended to accompany _Data-Directed Design_ [by] J.W. Graham.
Loose binder.

File 635   **Data directed design diagrams, Oct. 1985 [file 2 of 2].** - 1985.
Contents: one binder of transparencies, divided into chapters, intended to accompany _Data-directed design_ [by] J.W. Graham.
Loose binder.

File 636   **Data-directed design: preliminary version: title pages.** - 1985.
Contents: ms. and ts. draft materials for the work entitled _Data-directed design: preliminary version_ [by] J.W. Graham.
Original title: "Title pages".

File 637   **Data-directed design: preliminary version: chapter 1.** - 1985.
Contents: ms. and ts. draft materials for the work entitled _Data-directed design: preliminary version_ [by] J.W. Graham.

File 638   **Data-directed design: preliminary version: chapter 2.** - 1985.
Contents: ms. and ts. draft materials for the work entitled _Data-directed design: preliminary version_ [by] J.W. Graham.

File 639   **Data-directed design: preliminary version: chapter 3.** - 1985.
Contents: ms. and ts. draft materials for the work entitled _Data-directed design: preliminary version_ [by] J.W. Graham.

File 640   **Data-directed design: preliminary version: chapter 4.** - 1985.
Contents: ts. draft materials for the work entitled _Data-directed design: preliminary version_ [by] J.W. Graham.

File 641   **Data-directed design: preliminary version: chapter 5.** - 1985.
Contents: ms. and ts. draft materials for the work entitled _Data-directed design: preliminary version_ [by] J.W. Graham.

File 642   **Data-directed design: preliminary version: chapter 6.** - 1985.
Contents: ts. draft materials for the work entitled _Data-directed design: preliminary version_ [by] J.W. Graham.

File 643   **Data-directed design: preliminary version: chapter 7.** - 1985.
Contents: ts. draft materials for the work entitled _Data-directed design: preliminary version_ [by] J.W. Graham.

File 644   **Data-directed design: preliminary version: chapter 8.** - 1985.
Contents: ts. draft materials for the work entitled _Data-directed design: preliminary version_ [by] J.W. Graham.

File 645   **Data-directed design: preliminary version: chapter 9.** - 1985.
Contents: ts. draft materials for the work entitled _Data-directed design: preliminary version_ [by] J.W. Graham.

File 646   **[Data-directed design]: Chapters 1-9: diagrams only, has figure typed on.** - [197-?].
Contents: photocopies of diagrams for book, title not specified.

File 647   **[Data-directed design]: Programs for data directed design.** - [1984?].
Contents: one binder of transparencies, divided into chapters, intended to accompany _Data-Directed Design_ [by] J.W. Graham.
Loose binder.

File 648   **Diagrams, chapter 1: masters.** - [197-?].
Contents: masters of diagrams for book, title not specified.

File 649   **Diagrams, chapter 2: masters.** - [197-?].
Contents: masters of diagrams for book, title not specified.

File 650   **Diagrams, chapter 4: masters.** - [197-?].
Contents: masters of diagrams for book, title not specified.

File 651   **Diagrams, chapter 5: masters.** - [197-?].
Contents: masters of diagrams for book, title not specified.

File 652   **Diagrams, chapter 6: masters.** - [197-?].
Contents: masters of diagrams for book, title not specified.

File 653   **Diagrams, chapter 7: masters.** - [197-?].
Contents: masters of diagrams for book, title not specified.

File 654   **Diagrams, chapter 8: masters.** - [197-?].
Contents: masters of diagrams for book, title not specified.

File 655   **Diagrams, chapter 9: masters.** - [197-?].
Contents: masters of diagrams for book, title not specified.

File 656   **Diagrams, chapter 10: masters.** - [197-?].
Contents: masters of diagrams for book, title not specified.

File 657   **Doyle, Mike.** - 1972-1975.
Contents: material related to a paper by M.S. Doyle and J. Wesley Graham: "Some parameters affecting the performance of paged storage hierarchies." Includes correspondence, notes, drafts.

File 658   **The effects of page size on the operation of a linear storage hierarchy / by M.S. Doyle and J.W. Graham, July, 1973.** - [1973].
Contents: 18 p. ts. (photocopy) of a paper later published as Scientific Report no. 78, Dept. of Computer Science, University of Manitoba, August 1974.
Conference paper: photocopy.
Added Entries: Graham, J.W.

File 659   **File processing with COBOL/WATBOL: a structured programming approach.** - 1975.
Contents: correspondence file relating to requests for copies of File processing with COBOL/WATBOL: a structured programming approach, by Cooper, Cowan, Dirkson and Graham.

File 660   **File processing with COBOL/WATBOL: masters [file 1 of 3].** - 1974.
Contents: master ts. consisting of pasted-up computer output of the second edition of File processing with COBOL/WATBOL by R.H. Cooper, D.D.Cowan, P.H. Dirksen and J.W. Graham. Cahpter 1 is Easy-go Credit Card Company.
Title from box

File 661   **File processing with COBOL/WATBOL: masters [file 2 of 3].** - 1974.
Contents: master ts. consisting of pasted-up computer output of the second edition of File processing with COBOL/WATBOL by R.H. Cooper, D.D.Cowan, P.H. Dirksen and J.W. Graham. Cahpter 1 is Easy-go Credit Card Company.
Title from box

File 662   **File processing with COBOL/WATBOL: masters [file 3 of 3].** - 1974.
Contents: master ts. consisting of pasted-up computer output of the second edition of File processing with COBOL/WATBOL by R.H. Cooper, D.D.Cowan, P.H. Dirksen and J.W. Graham. Cahpter 1 is Easy-go Credit Card Company.
Title from box

File 663   **File processing with COBOL/WATBOL: a structured programming approach: reviews.** - 1975.
Contents: correspondence from Prentice-Hall containing a review of File processing with COBOL/WATBOL: a structured programming approach, by Cooper, Cowan, Dirkson and Graham.
Loose papers.

File 664   **Fortran Book.** - [197-?].
Contents: ms. notes with title "Chapter 7."

File 665   **Fortran Book.** - [197-?].
Contents: book outline, ms. notes.

File 666   **Fortran Book.** - [197-?].
Contents: transparencies and masters.

File 667   **FORTRAN book.** - 1976.
                  Contents: photocopied pages, outline and examples.

File 668   **FORTRAN book: WATFIV examples.** - 1976.
                  Contents: photocopied pages.
                  Untitled folder.

File 669   **FORTRAN IV with WATFOR and WATFIV: dead camera copy [file 1 of 3].** - 1968.
                  Contents: by Paul Cress, Paul Dirksen, J.Wesley Graham. Preface dated May 1968.

                  Subject: WATFOR

File 670   **FORTRAN IV with WATFOR and WATFIV: dead camera copy [file 2 of 3].** - 1968.
                  Contents: by Paul Cress, Paul Dirksen, J.Wesley Graham. Preface dated May 1968.

                  Subject: WATFOR

File 671   **FORTRAN IV with WATFOR and WATFIV: dead camera copy [file 3 of 3].** - 1968.
                  Contents: by Paul Cress, Paul Dirksen, J.Wesley Graham. Preface dated May 1968.

                  Subject: WATFOR

File 672   **FORTRAN IV with WATFOR and WATFIV: publisher's correspondence.** - 1980.
                  Contents: list of "adoptions" (orders for more than ten copies).
                  Untitled file.

                  Subject: WATFOR

File 673   **FORTRAN IV with WATFOR and WATFIV: review.** - 1971.
                  Loose papers.

File 674   **Fortran IV with WATFOR book: originals.** - 1966.
                  Contents: manuscript draft (originals).

                  Subject: WATFOR

File 675   **FORTRAN IV with WATFOR . P.H. Cress, P.H. Dirksen, J.W. Graham [file 1 of 3].** - 1968.
                  Contents: one binder containing final ts. (photocopy) of the book.
                  Untitled.

                  Subject: WATFOR

File 676   **FORTRAN IV with WATFOR . P.H. Cress, P.H. Dirksen, J.W. Graham [file 2 of 3].** - 1968.
                  Contents: one binder containing final ts. (photocopy) of the book.
                  Untitled.

                  Subject: WATFOR

File 677   **FORTRAN IV with WATFOR . P.H. Cress, P.H. Dirksen, J.W. Graham [file 3 of 3].** - 1968.
                  Contents: one binder containing final ts. (photocopy) of the book.
                  Untitled.

                  Subject: WATFOR

File 678   **The general purpose computer in academic life, May, 1959.** - 1959.
                  Contents: 1 ts. (12 p., copy) author unkown.

File 679   **History of Super Pet at Waterloo.** - [1980?].
                  Contents: ms. (original), 8 leaves.

File 680   **Instructor's manual to accompany the textbook An Introduction to COBOL with
                  WATBOL: a structured programming approach / prepared by D.D. Cowan,
                  B.J. Rowe.** - 1977.
                  *Contents: Draft. contains loose cover, batches of problems and exams from
                  Computer Science 180, 1976-1977.*
                  Loose papers

File 681   **Introduction to basic principles of structured programming and top-down design.** -
                    [19--].
                    Contents: photocopied pages, ms. notes
                    Untitled folder.

File 682   **Introduction to basic principles of structured programming and top-down design
                    (file 1 of 2).** - [197-?].
                    Contents: 260 leaves of photocopies, ms. notes inserted. Master copy?
                    In box.

File 683   **Introduction to basic principles of structured programming and top-down design
                    (file 2 of 2).** - [197-?].
                    Contents: 260 leaves of photocopies, ms. notes inserted. Master copy?
                    In box.

File 684   **[Introduction to basic principles of structured programming]: Introduction, file
                    maintenance, 1.1-1.18.** - [197-?].
                    Contents: transparencies.

File 685   **[Introduction to basic principles of structured programming]: inversion.** - [197-?].
                    Contents: transparencies and photocopies labelled 5.1, 6.1, 6.2.

File 686   **[Introduction to basic principles of structured programming]: Invoice problem, –4
                    stage (program inversion), 6.1-6.10.** - [197-?].
                    Contents: transparencies.

File 687   **[Introduction to basic principles of structured programming]: masters.** - [197-?].
                    Contents: photocopies for transparencies.

File 688   **[Introduction to basic principles of structured programming]: system log report,
                    structure clash, multithreading, 8.1-8.8.** - [197-?].
                    Contents: transparencies and draft pages.
                    Untitled folder.

File 689   **[Introduction to basic principles of structured programming]: system design, 9.1-9.5.**
                    - [197-?].
                    Contents: transparencies.

File 690   **[Introduction to basic principles of structured programming]: paging, 13-16.** - [197-?].
                    Contents: transparencies.

File 691   **[Introduction to basic principles of structured programming]: paging with structure,
                    17-20.** - [197-?].
                    Contents: transparencies.

File 692   **An introduction to COBOL with WATBOL: copy (file 1 of 2).** - 1976.
                    Contents: ts. with annotations, corrections, additional notes, of An iIntroduction to
                COBOL with WATBOL: a structured programming approach / D.D. Cowan, P.H. Dirksen, J.W.
                Graham. Waterloo, Ont. : WATFAC, c1976.

File 693   **An introduction to COBOL with WATBOL: copy (file 2 of 2).** - 1976.
                    Contents: ts. with annotations, corrections, additional notes, of An iIntroduction to
                COBOL with WATBOL: a structured programming approach / D.D. Cowan, P.H. Dirksen, J.W.
                Graham. Waterloo, Ont. : WATFAC, c1976.

File 694   **An introduction to COBOL with WATBOL: miscellaneous.** - [197-].
                    Contents: partial ms. draft, paste-ups of diagrams for An Introduction to COBOL with
                WATBOL: a structured programming approach / D.D. Cowan, P.H. Dirksen, J.W. Graham.
                Waterloo, Ont. : WATFAC, c1976.

File 695   **Introduction to data directed design: chapters 1-3.** - [1985?].
                    Contents: ts. drafts (photocopies) with diagrams pasted in.
                    Untitled.
                    Loose papers.

File 696   **Introduction to data directed design: chapter 1.** - [198-].
                    Contents: ts.
                    Untitled.
                    Loose materials.

File 697   **Introduction to data directed design: chapter 1, old.** - [1985?].
                        Contents: ms. drafts, hand-drawn diagrams, photocopies of ms. drafts, revisions and
                changes present.
                        Chapter title: Using diagrams to describe structure.

File 698   **Introduction to data directed design: chapter 2, old.** - 1985.
                        Contents: ms.
                        Chapter title: Introduction to data directed design.

File 699   **Introduction to data directed design: chapter 3, old.** - [1985?].
                        Contents: ts. draft, annotated.
                        Chapter title: Processing sets of data.
                Added Entries: Processing sets of data.

File 700   **Introduction to data directed design: chapter 4.** - [1985?].
                        Contents: ms. and ts. drafts, annotated diagrams.
                        Chapter title: Sets and data directed design.

File 701   **Introduction to data directed design: chapter 5.** - [1985?].
                        Contents: ms. draft.
                        Chapter title: Merging.

File 702   **Introduction to data directed design: chapter 6.** - [1985?].
                        Contents: ms. draft.
                        Chapter title: Top down design.

File 703   **Introduction to data directed design: chapter 7.** - [1985?].
                        Contents: ms. and ts. drafts.
                        Chapter title: Co-operating sequential processes.

File 704   **Introduction to data directed design: chapter 8.** - [1985?].
                        Contents: ms. draft.
                        Chapter title: The control break problem.

File 705   **Introduction to data directed design: chapter 9.** - [1985?].
                        Contents: ms. draft.
                        Chapter title: File maintenance.

File 706   **[Introduction to data directed design]: diagrams.** - [198-].
                        Contents: pages of hand drawn diagrams Introduction to data directed design.
                        Untitled.
                        Loose materials.

File 707   **Introduction to FORTRAN [file 1 of 3].** - [19--].
                        Contents: binder containing program examples to accompany chapters in book.

File 708   **Introduction to FORTRAN [file 2 of 3].** - [19--].
                        Contents: binder containing program examples to accompany chapters in book.

File 709   **Introduction to FORTRAN [file 3 of 3].** - [19--].
                        Contents: binder containing program examples to accompany chapters in book.

File 710   **An introduction to the SPECTRE computer.** - 1971-1972..
                        Contents: agreement with publisher, photocopies of letters from publisher's reviewers.
                        Untitled.
                        Loose papers.

File 711   **An Introduction to Waterloo BASIC.** - [1979].
                        Contents: ts. (computer output).
                        Loose printout.

File 712   **An Introduction to Waterloo BASIC.** - [1979].
                        Contents: transparencies to accompany chapters.
                        Untitled folder.

File 713   **An Introduction to Waterloo BASIC.** - [1979].
                        Contents: ts. (computer output).
                        Loose duotang.

File 714   **An Introduction to Waterloo BASIC.** - [1979].
            Contents: ts. (original computer output), with corrections, annotations, ms. notes).
            Untitled folder.

File 715   **An Introduction to Waterloo BASIC: Chapter 1.** - [1979].
            Contents: original ms.
            Untitled folder.

File 716   **An Introduction to Waterloo BASIC: Chapter 2.** - [1979].
            Contents: original ms.
            Untitled folder.

File 717   **An Introduction to Waterloo BASIC: Chapter 3.** - [1979].
            Contents: original ms.
            Untitled folder.

File 718   **An Introduction to Waterloo BASIC: Chapter 4.** - [1979].
            Contents: original ms.
            Untitled folder.

File 719   **An Introduction to Waterloo BASIC: Chapter 5.** - [1979].
            Contents: original ms.
            Untitled folder.

File 720   **An Introduction to Waterloo BASIC: Chapter 6.** - [1979].
            Contents: original ms.
            Untitled folder.

File 721   **An Introduction to Waterloo BASIC: Chapter 7.** - [1979].
            Contents: original ms.
            Untitled folder.

File 722   **An Introduction to Waterloo BASIC: Chapter 8.** - [1979].
            Contents: original ms.
            Untitled folder.

File 723   **An Introduction to Waterloo BASIC: Chapter 9.** - [1979].
            Contents: original ms.
            Untitled folder.

File 724   **An Introduction to Waterloo BASIC: Chapter 10.** - [1979].
            Contents: original ms.
            Untitled folder.

File 725   **An Introduction to Waterloo BASIC: Chapter 11.** - [1979].
            Contents: original ms.
            Untitled folder.

File 726   **An Introduction to Waterloo BASIC: Chapter 12.** - [1979].
            Contents: original ms.
            Untitled folder.

File 727   **An Introduction to Waterloo BASIC: Chapter 13.** - [1979].
            Contents: original ms.
            Untitled folder.

File 728   **An Introduction to Waterloo BASIC: Chapter 14.** - [1979].
            Contents: original ms.
            Untitled folder.

File 729   **An Introduction to Waterloo BASIC: Chapter 15.** - [1979].
            Contents: original ms.
            Untitled folder.

File 730   **An Introduction to Waterloo BASIC: Chapter 16.** - [1979].
            Contents: original ms.
            Untitled folder.

File 731 **An introduction to WATIAC and WATMAP / Cooper, Cowan, Dirksen, Graham, Penton, Treadwell, Part 1.** - [197-?].
Contents: master ts. consisting of pasted-up computer output. Incomplete?
Loose papers.

File 732 **A medium resolution timer for the System/360 Model 75 / J.W. Graham, J.P. Isaacs, R.V.R. Petersen.** - [1967?].
Contents: [9]p. ts. (original)
Added Entries: Isaacs, J.P.

File 733 **MicroWAT.** - 1981.
Contents: ms. drafts, ts. "History of MICROWAT development" by J.W. Graham.

File 734 **MICROWAT: a personal workstation of modular design / J.W. Graham, University of Waterloo.** - [1982].
Contents: ts. (computer output).

File 735 **Notes to be used by the instructor with the text File processing with COBOL/WATBOL / prepared by R.H. Cooper, Computer Systems Group, University of Waterloo.**
- 1974.
Contents: ts. (70 leaves).
On folder: "Originals".

File 736 **Personal workstations for program development / J.W. Graham and T. Wilkinson.** - [1982].
Contents: paper (photocopy).
Added Entries: Wilkinson, T.

File 737 **Processing magnetic tape files with variable blocks / [by] J.W. Graham, D.A. Sprott.** - [196-].
Contents: ms. (original, 14 p.), ts. (carbon, 9. p.)
Loose papers.

File 738 **Processing magnetic tape files with variable blocks / [by] J.W. Graham, D.A. Sprott.** - [196-].
Contents: ms. notes, ts. (original, 8 p., also corrected draft)
Title on folder "Var. L. records" [i.e. variable length?]

File 739 **Retrieval using ordered lists in inverted and multilist files / James W. Welch, J. Wesley Graham.** - 1976.
Contents: paper (photocopy) presented at the "ACM-SIGMOD International Conference on Management of data, Washington, D.C., June 1976."
Added Entries: Graham, J.W.

File 740 **A selected bibliography on structured programming.** - 1976.
Contents: one bibliography: "160 references, May 3, 1976."
Loose item.

File 741 **Small digital machines: technical evaluation of the IBM 1620 and the Bendix G-15 / by J.W. Graham, January 26th, 1960.** - 1960.
Contents: one mimeograph report done by J. Wesley Graham.

File 742 **Solutions to the problems in file processing with COBOL/WATBOL / edited by R.H. Cooper (file 1 of 2).** - 1974.
Contents: ts. (222 leaves, pasted up).
On folder: "Originals".

File 743 **Solutions to the problems in file processing with COBOL/WATBOL / edited by R.H. Cooper (file 2 of 2).** - 1974.
Contents: ts. (222 leaves, pasted up).
On folder: "Originals".

File 744 **SPECTRE.** - 1968-1983.
Contents: photocopies of published material on SPECTRE: a 1B work-term report for Welch Cybernetics: The implementation of SPECTRE and SPECTRE MAP on the Commodore PET, Welch Cybernetics, Waterloo, Ont. / prepared by M.P. Graham, 1B Information Systems, 6 September 1982. Also included is a photocopy of a manual by P.C. Brillinger, B.L. Ehle and J. Wesley Graham dated 1968, lacking a title page.

File 745   **SPECTRE Specbook.** - 1983.
                *Contents: ts. (computer output) of notes "to provide an introduction to machine
        language and assembly language programming using a hypothetical computer called
        SPECTRE", by J.R. Cote, D.D. Cowan, J.W. Graham, M.P. Graham.*
                Loose output.

File 746   **Structured Programming in FORTRAN with WATFIV-S: publisher's correspondence
                and review.** - 1980.
                Untitled file.

File 747   **A Study of Superfluity in Storage Hierarchies / by M.S. Doyle, and J.W. Graham,
                April, 1979.** - 1979.
                Contents: ts. (photocopy) accompanied by correspondence.
        Added Entries: Graham, J.W.

File 748   **Teaching structured programming in WATFOR-11 and WATBOL-11 on a PDP-11 /
                D.D. Cowan . . . [et. al].** - 1976.
                *Contents: paper (photocopy) presented at the "9th annual ASCUE Conference,
        Oklahoma City, Oklahoma, June, 1976."*
                By D.D. Cowan, P.H. Dirksen, J.W. Graham, J.W. Welch, T.A. Wilkinson.
        Added Entries: Dirksen, P.H. Graham, J.W. Welch, J.W. Wilkinson, T.A.

File 749   **A tutorial guide to the Waterloo microEditor.** - [1983].
                Contents: manuscript originals, ts. drafts, with corrections (computer output).
                Untitled folder.

File 750   **A tutorial guide to the Waterloo microEditor.** - 1983.
                Contents: 5 ts. drafts, with corrections and annotations (computer output).
                Loose printouts.

File 751   **Understanding the basics: an introduction to computer technology / by J.W.
                Graham, written for Apple trial.** - 1984.
                Contents: photocopy of ts. and cover letter.

File 752   **Understanding the basics: an introduction to computer technology / D.D. Cowan,
                J.W. Graham, Nov. 7, 1986.** - 1986.
                Contents: photocopy of ts.
        Added Entries: Graham, J.W.

File 753   **Untitled mathematics text.** - [1960?].
                *Contents: 1 untitled ts. (128 p., copy) of a work on mathematics. Chapters include:
        1. The integers, 2. The rational and real number systems, 3. Introduction to complex numbers
        ....*
                Untitled.
                Loose papers.

File 754   **Untitled mathematics text.** - [195-?].
                Contents: 215 p. ts. (copy), ms. notes.
                Loose papers in moldy binder: untitled text.

File 755   **Using minicomputers in teaching in secondary and post-secondary education / D.D.
                Cowan . . . [et. al].** - 1976.
                *Contents: computer output of a paper presented at the 9th annual ASCUE
        Conference, Oklahoma City, Oklahoma, June, 1976.*
                By D.D. Cowan, P.H. Dirksen, J.W. Graham and James W. Welch.
        Added Entries: Dirksen, P.H. Graham, J.W. Welch, J.W.

File 756   **Variable length.** - [1960?].
                Contents: one thermofax, p. 7 of a larger document.

File 757   **Variable length records.** - [1960?].
                *Contents: ms. notes and calculations for Processing magnetic tape files with variable
        blocks / [by] J.W. Graham, D.A. Sprott.*

File 758   **Virtual memory / by M.S. Doyle and J.W. Graham.** - [1973].
                *Contents: 19 p. ts. (photocopy) of a presentation for the CIPS Technical Meeting,
        Winnipeg, Manitoba, Oct. 16, 1973.*
                Conference paper: photocopy.
        Added Entries: Graham, J.W.

File 759   **WATBOL Book.** - [197-?].
                Contents: ms. drafts for chapters 3, 6, and 10, ms. drafts of examples for chapter 9.

File 760   **Waterloo BASIC: primer and reference manual, Graham, Welch.** - [1979?].
                Contents: ts. (computer output) of Waterloo Basic : primer and reference manual : a structured programming approach / J.W. Graham, J.W. Welch.
                Loose duotang.

File 761   **Waterloo Microcomputer Systems for the 1980's: ACM Dallas Conference.** - 1982.
                Contents: photocopies of a conference paper by D.D. Cowan and J.W. Graham.

File 762   **Waterloo Systems Language: tutorial and reference manual.** - 1981.
                Contents: ts. (computer output).
                Loose printout.

File 763   **WATFIV version 1, level 0: trace & snaps version, June 24, 1969.** - 1969.
                Contents: one large bundle of computer output.

File 764   **[WATFOR?]: book II: test programs [file 1 of 3].** - [1968?].
                Contents: binder containing test programs, divided by chapter, to accompany book.

File 765   **[WATFOR?]: book II: test programs [file 2 of 3].** - [1968?].
                Contents: binder containing test programs, divided by chapter, to accompany book.

File 766   **[WATFOR?]: book II: test programs [file 3 of 3].** - [1968?].
                Contents: binder containing test programs, divided by chapter, to accompany book.

File 767   **WATFOR: typed manuscript [file 1 of 3].** - 1968.
                Contents: binder containing ts. (photocopy 380 p.), lacking t.p. Preface is by P.H. Cress, P.H., Dirksen, J.W. Graham.

                Subject: WATFOR

File 768   **WATFOR: typed manuscript [file 2 of 3].** - 1968.
                Contents: binder containing ts. (photocopy 380 p.), lacking t.p. Preface is by P.H. Cress, P.H., Dirksen, J.W. Graham.

                Subject: WATFOR

File 769   **WATFOR: typed manuscript [file 3 of 3].** - 1968.
                Contents: binder containing ts. (photocopy 380 p.), lacking t.p. Preface is by P.H. Cress, P.H., Dirksen, J.W. Graham.

                Subject: WATFOR

Series 3.2 :   Works: Publications

File 0   **Works: publications.** - 1960-1988.
                Series consists of printed items written or co-authored by J. Wesley Graham from 1960-1988, published in journals, conference proceedings or as separate reports.
                Title from content of the series.

File 770   **Batch compilers for student programs on the PDP-11 / D.D. Cowan . . . [et. al].** - 1976.
                Contents: paper (photocopy) presented at the "1976 U.S. Spring DECUS Symposium, Atlanta, Georgia, May 25-28, 1976."
                By D.D. Cowan, P.H. Dirksen, J.W. Graham, J.W. Welch, T. Wilkinson.
                Added Entries: Dirksen, P.H. Graham, J.W. Welch, J.W. Wilkinson, T.

File 771   **COBOL programs for data-directed design notes.** - [1985]. - 92 p.
                Contents: one manual of "COBOL programs for examples in the Data Directed Design." Notes written by J.W. Graham, programs written by Glen Anderson, edited by P.H. Dirksen. This manual was intended to accompany _Data-Directed Design_ [by] J.W. Graham.
                Publication.

File 772   **Computer science in engineering education.** - 1964.
                Photocopy.

File 773   **Computer science in engineering education.** - 1964.

File 774   **Computers: a revolution in secondary education.** - 1967.
              "Based on a report in the "Globe and Mail".

File 775   **Computing in the University: the implications of new technologies, by Raymond K. Neff; Commentary by Donald D. Cowan and J.Wesley Graham, University of Waterloo.** - 1987.
              Publication (Article: full issue present).
      Added Entries: Graham, J.W.

File 776   **A data directed approach to program construction.** - 1980.
              By D.D. Cowan, J.W. Graham, J.W. Welch, C.J.P. Lucena.
              Offprint.
      Added Entries: Graham, J.W. Welch, J.W. Lucena, C.J.P.

File 777   **A data directed approach to program construction / D.D. Cowan . . . [et al.].** - 1978.
              By D.D. Cowan, J.W. Graham, J.W. Welch, C.J.P. Lucena.
              Photocopy
      Added Entries: Graham, J.W. Welch, J.W. Lucena, C.J.P.

File 778   **Data-directed design: preliminary version / J.W. Graham.** - 1984. - 106 p. : ill.
              Contents: one copy contains J. Wesley Graham pages of ms. notes.
              Publication.

File 779   **Data sorting with digital computers.** - 1960.
              Contents: article by J. Wesley Graham. According to a note on first page it is from the Proceedings of the Second Conference of the Computing and Data Processing Society of Canada, June 1960.
              Loose publication.

File 780   **Design and implementation techniques for the /360 WATFOR compiler / D.D. Cowan . . . [et al.], June 1968.** - 1968.
              Contents: ts., 22 p. (photocopy).
              By D.D. Cowan, P.H. Cress, P.H. Dirksen, J.W. Graham.
              Report.

      Subject: WATFOR
      Added Entries: Cress, P.H. Dirksen, P.H. Graham, J.W.

File 781   **Design characteristics of the WATFOR compiler / D.D. Cowan & J.W. Graham.** - 1970.
              Proceedings of a symposium on compiler optimization held at the University of Illinois at Urbana-Champaign, July 27-28, 1970.
              By D.D. Cowan, P.H. Cress, P.H. Dirksen, J.W. Graham.
              Report.

      Subject: WATFOR
      Added Entries: Cress, P.H. Dirksen, P.H. Graham, J.W.

File 782   **Development of educational software using the DEC PDP-11 / D.D. Cowan . . . [et al.].** - 1976.
              Contents: photocopy of a ts. paper. Note on first page: "ACM SIGMINI/SIGPLAN Interface Meeting on Programming Systems in the Small Processor Environment, 11: 4: 109-112, New Orleans, Louisiana, March 4-6, 1976"
              By D.D. Cowan, P.H,. Dirksen, J.W. Graham, J.W. Welch.
      Added Entries: Graham, J.W. Dirksen, P.F. Welch, J.W.

File 783   **The efficient representation of inverted lists.** - 1976.
              By D.D. Cowan, J.W. Graham and James W. Welch.
              Offprint.
      Added Entries: Graham, J.W. Welch, J.W.

File 784   **A generalized rank for a square matrix.** - 1975.
              By R.G. Stanton, W.L. Kocay, J.W. Graham.
              Offprint.
      Added Entries: Kocay, W.L. Graham, J.W.

File 785   **Information retrieval in files described using sets / by James W. Welch and J. Wesley Graham.** - 1975.

         Contents: ts., [32] p. (photocopy), "to be presented at the International Workshop Management of data: description, Access and Control, May 14-16, 1975.

         Report.

     Added Entries: Graham, J.W.

File 786   **MICROWAT: a personal workstation of modular design / J.W. Graham, University of Waterloo.** - 1982.

         In Proceedings of the South African Congress on Computers in Education, University of Stellenbosch, 1982: 291-298.

         Publication (offprint).

File 787   **Networks for Education at the University of Waterloo, [by] D.D. Cowan, S. Fenton, J.W. Graham and T.M. Stepien.** - 1988.

         Publication [article offprint].

     Added Entries: Fenton, S. Graham, J.W. Stepien, T.M.

File 788   **New approaches to project management: workshop summary.** - 1976.

         Contents: chapter two in the proceedings, EDUCOM Spring Conference, University opf Louisville, Apr. 7-9, 1976. This chapter concerns top-down structured programming.

File 789   **New sets of linear difference equations for the definition of merge methods.** - 1973.

         By J.W. Graham and P.S. Kritzinger.

         Offprint.

     Added Entries: Kritzinger, P.S.

File 790   **Processing magnetic tape files with variable blocks.** - 1961.

         Reprint

     Added Entries: Sprott, D.A.

File 791   **Proposed foreground-background system / Professor J.W. Graham, Jan. 1965.** - 1965.

         Section title: "7040-1401 trap interrupt". Includes two stapled manuscripts.

         Publication.

File 792   **Queuing theory analysis of a direct access storage device.** - 1974.

         Offprint.

         By Pieter Kritzinger, Mary Thompson and J.Wesley Graham.

     Added Entries: Thompson, Mary Graham, J.W.

File 793   **Retrieval in multilist files with ordered lists.** - 1975.

         By James W. Welch and J.W. Graham.

         Offprint.

     Added Entries: Graham, J.W.

File 794   **Singly-determined stack algorithms.** - 1972.

         By M.S. Doyle and J.W. Graham.

         Conference paper: photocopy.

     Added Entries: Graham, J.W.

File 795   **Some parameters affecting the performance of paged storage hierachies.** - 1975.

         Conference paper: photocopy.

     Added Entries: Graham, J.W.

File 796   **A Study of Superfluity in Storage Hierarchies / by M.S. Doyle, and J.W. Graham, April, 1979.** - 1979.

     Added Entries: Graham, J.W.

File 797   **A study of superfluity in storage hierarchies.** - 1982.

         By M.S. Doyle and J.W. Graham.

         Publication (article, offprint).

     Added Entries: Graham, J.W.

File 798   **A study of the package software industry in Canada: a report submitted to the Department of Industry, Trade and Commerce / by D.D. Cowan and J.W. Graham, Computer Science Dept., University of Waterloo, Feb. 1983.** - 1983.

         Publication (draft)

     Added Entries: Graham, J.W.

File 799   **A study of the package software industry in Canada: a report submitted to the Department of Industry, Trade and Commerce / by D.D. Cowan and J.W. Graham, Computer Science Dept., University of Waterloo, June, 1983.** - 1983.
Publication (draft).
Added Entries: Graham, J.W.

File 800   **A study of the package software industry in Canada: a report submitted to the Department of Industry, Trade and Commerce / by D.D. Cowan and J.W. Graham, Computer Science dept., University of Waterloo, Aug. 1983.** - 1983.
Note on cover: "final version".
Publication.
Added Entries: Graham, J.W.

File 801   **A survey of sorting activity at Canadian computer installations.** - 1973.
By J.W. Graham and P.S. Kritzinger.
Added Entries: Kritzinger, P.S.

File 802   **A theorem in the theory of compromise merge methods.** - 1974.
By Pieter Kritzinger and J.Wesley Graham.
Reprint
Added Entries: Graham, J.W.

File 803   **The University of Waterloo personal computing project.** - 1985.
By D.D. Cowan, S. Fenton, J.W. Graham and T.M. Stepien.
Added Entries: Fenton, S. Graham, J.W. Stepien, T.M.

File 804   **Waterloo microcomputer systems for the 1980's.** - 1983.
By D.D. Cowan and J.W. Graham.
Publication (article, full issue present).
Added Entries: Graham, J.W.

File 805   **Widget: a student editing system / J.W. Graham ...[et al.]** - 1975.
Contents: one of four papers submitted and presented at the 1975 Fall DECUS Symposium, Los Angeles, Dec. 2-5, 1975.
By J.W. Graham, E. Mackie, J.W. Welch, R. White.
Added Entries: Mackie, E. Welch, J.W. White, R.

Series 3.3 : Works: Talks, Presentations

File 0   **Works: Talks, presentations.** - 1957-1999.
Series consists of material relating to talks, lectures and presentations given by J. Wesley Graham from 1957-1999. These talks and speechs include conference addresses, speeches to organizations and clubs and lectures to non-the University of Waterloo groups such as IBM. Includes correspondence, ephemera, speech notes, drafts, transparencies, and working papers.
Title from content of the series.

File 806   **AEDS [Association for Educational Data Systems] speech, Toronto, Feb. 1970.** - 1970.
Contents: material relating to conference on instructional programs in computing, at which J. Wesley Graham gave a paper. Includes ms. draft outline of paper, correspondence, background reading, Ontario Dept. of Education circulars.

File 807   **Association for Systems Management speech, Toronto, March 1971: "An approach to education for information specialists".** - 1971.
Contents: correspondence, transparencies.

File 808   **CAS [ie CSA: Computer Science Association] Conference, University of Saskatchewan, May 1982: personal work-stations for program development.** - 1982.
Contents: material relating to paper by J. Wesley Graham and Terry Wilkinson. Includes conference information, correspondence, abstract of the paper "Personal workstations for program development", drafts (ts. originals), diagram masters.

File 809   **CCG [Computer Co-ordination Group]: computer conference (2nd), Jan. 1971.** - 1971.
Contents: material relating to the Second Ontario Universities Computing Conference, at which J. Wesley Graham gave a paper. Includes correspondence, ms. draft of paper, ephemera, questionnaire, etc.

File 810   **CCG [Computer Co-ordination Group]: computer conference, Ottawa, Dec. 11-12, 1969.** - 1969.
Contents: material about a conference, "The Computer Centre within the Ontario university." J. Wesley Graham chaired a session at this conference. Includes correspondence, ephemera, background material, ms. notes on the topic of "Computer policies or fallacies."

File 811   **CIPS [Canadian Information Processing Society] conference, 1983.** - 1983.
Contents: material about a conference, "Converging technologies" held May 16-20, Ottawa. J. Wesley Graham was an invited speaker on portable education software. Includes conference programme.

File 812   **Computer Science Club, March 1974: presentations, talks file.** - 1974.
Contents: flyer advertising talk on "Distributed processing: an alternative to debug blues," overhead transparencies used for the talk.

File 813   **Computer Science Education Conference, Annapolis, Maryland, July 1969.** - 1970.
Contents: material re Conference on Computer Science Education, held for the National Science Foundation, Annapolis, Maryland, July 21-25, 1969. Includes draft of proceedings, ts. and carbon drafts (originals) of "Computer Science Department Philosophy and History at the University of Waterloo," included as an appendix in the proceedings.

File 814   **Computer Science Education Conference, Annapolis, Maryland, July 1969 [file 1 of 2].** - 1969.
Contents: background papers for National Academy of Science Conference on Computer Science Education, ms. notes, correspondence. J. Wesley Graham was an invitee.

File 815   **Computer Science Education Conference, Annapolis, Maryland, July 1969 [file 2 of 2].** - 1969.
Contents: background papers for National Academy of Science Conference on Computer Science Education, ms. notes, correspondence. J. Wesley Graham was an invitee.

File 816   **Unused number.**

File 817   **DECUS [Digital Equipment Computer Users] Symposium, Jan., April 1975.** - 1975.
Contents: Lists and copies of the papers from the University of Waterloo presented at these symposia.

File 818   **DECUS [Digital Equipment Computer Users] Symposium, Dec. 1975.** - 1975.
Contents: List and copies of the papers from the University of Waterloo presented at this symposium.

File 819   **DECUS [Digital Equipment Computer Users] Symposium, Toronto, Jan. 29-30, 1976.** - 1976.
Contents: correspondence, conference schedule, copies of the six papers from the University of Waterloo presented at this symposium.

File 820   **Dept. of Trade and development Conference: The future of the Computer Industry in Ontario, Oct. 1970.** - 1970.
Contents: J. Wesley Graham served on a panel for this conference. materials include correspondence, terms of reference for discussion.

File 821   **Florida presentation: March 28, 29, 1978 (File 1 of 6).** - 1978.
Contents: six files of material relating to a presentation on structured macros and on WIDJET. Includes presentation materials in the form of overhead transparencies and masters. Also includes list of attendees and ms. notes.

File 822   **Florida presentation: March 28, 29, 1978 (file 2 of 6).** - 1978.
Contents: six files of material relating to a presentation on structured macros and on WIDJET. Includes presentation materials in the form of overhead transparencies and masters. Also includes list of attendees and ms. notes.

File 823   **Florida presentation: March 28, 29, 1978 (file 3 of 6).** - 1978.
Contents: six files of material relating to a presentation on structured macros and on WIDJET. Includes presentation materials in the form of overhead transparencies and masters. Also includes list of attendees and ms. notes.

File 824   **Florida presentation: March 28, 29, 1978 (file 4 of 6).** - 1978.
Contents: six files of material relating to a presentation on structured macros and on WIDJET. Includes presentation materials in the form of overhead transparencies and masters. Also includes list of attendees and ms. notes.

File 825   **Florida presentation: March 28, 29, 1978 (file 5 of 6).** - 1978.
                Contents: six files of material relating to a presentation on structured macros and on WIDJET. Includes presentation materials in the form of overhead transparencies and masters. Also includes list of attendees and ms. notes.

File 826   **Florida presentation: March 28, 29, 1978 (File 6 of 6).** - 1978.
                Contents: one complete presentation photocopy, 131 numbered leaves.
                Untitled folder.

File 827   **Guelph lectures.** - 1959.
                Contents: correspondence concerning refresher course in mathematics for Canadian General Electric Co. Ltd., Guelph, Ont.. Also includes ms. notes and calculations.

File 828   **Hong Kong Trip.** - 1984.
                Contents: material relating to the IBM Asia-Pacific Higher Education Executive Conference, Amagi, Japan, Dec. 13-18, 1984 and J. Wesley Graham's role as an invited participant. Includes correspondence, ephemera, ms. notes re travel and conference arrangements.

File 829   **I.B.M. presentation: October 1973: presentations, talks file.** - 1973.
                Contents: overhead transparencies, ms. notes.

File 830   **IBM lectures (A).** - 1959.
                Contents: ts. letter carbon from J.H. Aitchison to University of Toronto Extension Dept. about a possible course for IBM technical personnel. Also includes ms. and ts. lists by J. Wesley Graham.

File 831   **IBM Public Sector Conference.** - 1977.
                Contents: correspondence, conference agenda. J. Wesley Graham was a speaker.
                Untitled folder.

File 832   **Industry Trade Commerce talk.** - [198-?].
                Contents: overhead transparencies.

File 833   **Information economy conference.** - 1984.
                Contents: conference proceedings: The information economy: its implications for Canada's industrial strategy, Erindale College, University of Toronto, May 30-June 1, 1984, sponsored by the Royal Society of Canada, The University of Toronto and the University of Waterloo Cooperative on Information Technology. J. Wesley Graham was Chairman of Workshop no. 9 on the software industry.

File 834   **Lecture notes: computer lectures, AIEE 1961-1962.** - 1961-1962.
                Contents: material relating to a series of lectures given for the American Institute of Electrical Engineering in Toronto, 1961-1962. Includes correspondence, ms. and ts. drafts and final copies.

File 835   **Lecture notes: IBM lectures.** - [196-].
                Contents: ms. notes.
                Restricted.

File 836   **Lecture to managers, IBM, on tape sorting.** - [1961].
                Contents: material relating to a talk given by J. Wesley Graham to IBM managers. Includes draft of the lecture (ms. original), paper masters for overheads or slides, and two IBM publications on sorting with the IBM 1401 dated 1961.

File 837   **Lectures for IBM.** - 1960-1961.
                Contents: correspondence from IBM relating to a series of lectures by J. Wesley Graham.
                Untitled
                Loose papers.

File 838   **Masters: Software Development Association, April 18, 1984.** - 1984.
                Contents: paper masters for overhead transparencies.

File 839   **Micro Computer Conference,, Sept. 1982** - 1982.
                Contents: material relating to presentation, "Micro computers: today and tomorrow," given by J. Wesley Graham as keynote speaker at a conference sponsored by York University. Includes paper copies of overhead transparencies, many ms. notes by J. Wesley Graham re microcomputers.
                Title on folder: Control break problem.

File 840   **Microcomputers.** - 1983.
    Contents: photocopies of overheads for two presentations: Waterloo microcomputer systems for the 1980's (J. Wesley Graham and D. Cowan) and Networking IBM personal computers at the University of Waterloo (P. Dirksen).
    Untitled folder.

File 841   **Mohawk College address, Sept. 1975.** - 1975.
    Contents: correspondence, ephemera, speech notes for address at Mohawk College convocation, Sept. 20, 1975.

File 842   **N.C.T.M.: National Council of Teachers of Mathematics, Nov. 73: presentations, talks file.** - 1973-1974.
    Contents: meeting information, overhead transparencies for talk.

File 843   **NAUCAL: National Association of Users of Computer Applications to Learning: talk, Ottawa, November 21, 1975.** - 1975.
    Contents: conference informnation, overhead transparencies for talk.

File 844   **Notes for speech to close the "Red Room", July 1999.** - 1999.
    Contents: ms. notes.
    Untitled.
    Loose paper.

File 845   **Nova, Halifax: speech, April 4, 1995, no. 002.** - 1987.
    Contents: material relating to a speech given by J. Wesley Graham in Halifax, Nova Scotia, at Nova Knowledge: "The University, industry and government, partners in the development of the software industry." Consists of correspondence, ms. notes, ephemera, and speech drafts and outlines.
    Untitled.
    Loose papers.

File 846   **Sales and Marketing executives of Toronto: talk, Sept. 30, 1968.** - 1968.
    Contents: ms. notes, newsletter with portrait of J. Wesley Graham.

File 847   **Secondary Education Review Project Symposium, Sept. 14-17, 1980.** - 1980.
    Contents: material realating to the Secondary Education Review Project Symposium, Sept. 14-17, 1980, at which J. Wesley Graham gave a presentation: " Information technology: its effect on future secondary education." Contains overhead transparencirs, correspondence and papers relating to symposium arrangements.
    Untitled file.

File 848   **Talks.** - 1957-1961.
    Contents: one ts. (original) and several ms. lectures and talks on computers and computing, some untitled. Includes "Modern day electronic computers and their unusual applications: speech to Civitan Club, Wed. Nov. 27, 1957," "Lecture to National Sales Exec. Club, Feb. 27, 1961," "Anatomy of modern computers: E.I.C., Nov. 25, 1960," "Lecture to IBM Dec. 12, 1960."
    Includes also course outline, notes and ephemera for "An introduction to digital computers with application to business and industry" offered by the University of Waterloo Adult Education department, 1961.

File 849   **Tape sort paper.** - 1959-1960.
    Contents: material relating to a paper presented by J. Wesley Graham at the second conference of the Computing and Data Processing Society of Canada held in Toronto, June 6-7, 1960 entitled "Data sorting with digital computers." The file contains drafts of the paper (ms. original, ts. carbon) paper masters for overheads or slides, correspondence and background reading on tape sorting for the IBM 1401.
    Added Entries: Computing and Data Processing Society of Canada Graham, J.W. Data sorting with digital computers.

File 850   **[Tape sorting]: talks.** - [1960?].
    Contents: file contains drafts of paper masters for overheads or slides.

File 851   **University of Stellenbosch, South Africa, April 1982.** - 1981-1982.
    Contents: material related to presentations and workshops to be given in South Africa by JWG. Includes correspondence with Pieter Kritzinger, itineraries, travel arrangements, ephemera.

File 852 **University of Stellenbosch, South Africa, April 1982.** - 1982.
Contents: material related to presentations and workshops to be given in South Africa by J. Wesley Graham. Includes correspondence with Pieter Kritzinger, itineraries, travel arrangements, copies of presentation on MicroWAT.

Series 4.1 :   UW: files to 1973

File 0 **UW: files to 1973.** - 1957-1973.
Series consists of material relating to J. Wesley Graham's activities at the University of Waterloo as administrator and faculty member from 1959 to 1973, when he resigned as Director of the Computing Centre. These files elucidate the growth and direction of computing at the University of Waterloo from its first computer in 1959 to its position as a major computer centre by 1973, documenting both J. Wesley Graham's activities and the administrative support received for early computing endeavours. Included are some files created by Basil R. Myers from 1957-1961 as the first Director of the University Computing Centre.   The files in this series cover most aspects of operating the Computing Centre, from computer agreements, purchases and installations for systems such as the IBM 1620, 1710, 7040 and /360 , budgets, policies, committees both administrative and operational, groups such as the Computer Systems Group, personnel, special projects, reports and publications relating to hardware and software, including WATFOR and FORTRAN. Includes computer output, correspondence, diagrams, ephemera, minutes, ms. notes, newsletters, proposals, publications, reports, and working papers.
Title from content of the series.
It is not always possible to determine which role JWG filled in relation to individual file contents. He did not separate one activity from another in his papers; therefore the files in Series 4 have been arranged in two major chonological sequences broken by his resignation as Director of the Computing Centre, rather than by individual function or administrative position.
Restricted.

File 853 **Accountpak.** - 1970.
Contents: material about the Computing Centre accounting system. Includes memoranda, reports.

File 854 **An advanced magnetic tape system for data processing / presented by Dr. Richard B. Lawrance, Minneapolis-Honeywell Regulator Co., DATAmatic Division, before the Eastern Joint Conference, December 2, 1959.** - 1959.
Loose "publication".

File 855 **Allotment.** - 1970-1971.
Contents: memoranda, reports re departmental computing use.

File 856 **Ampex.** - 1970.
Contents: material re extended core storage for the /360 model 75. Includes correspondence, ms. notes, drafts, ephemera, quotes, etc.

File 857 **Ampex.** - 1971.
Contents: material relating to rental of Ampex Disk System. Includes correspondence, memoranda.

File 858 **Appointments.** - 1967-1968.
Contents: appointment letter and memoranda copies.
Restricted.

File 859 **Assembler: ASMG.** - 1972.
Contents: material relating to maintenance contracts for Assembler G, a University of Waterloo product.

File 860 **Assembler: beginners course notes.** - 1968.
Contents: ms. notes, computer output.

File 861 **Assembler: /360 Assembler / Computing Centre, University of Waterloo.** - [1968?].
Contents: published course package or manual for a ten-day course designed to give a general introduction to /360 Assembler, produced by the Computing Centre, University of Waterloo. Includes inserted transparencies and computer output.
Loose publication.

File 862 **Association for Computing Machinery: roster of members, June 1, 1962.** - 1962.
Publication.

File 863 **Bendix G-15.** - [196-].
   Contents: promotional material relating to the Bendix G-15 computer. Includes inserted pages of J. Wesley Graham's ms. notes and calculations.

File 864 **Bi-Tran Six Digital Trainer.** - 1965.
   Contents: correspondence from Electronic Systems Engineering and promotional material relating to the Bi-Tran Six Digital Trainer for educational uses.

File 865 **Bolce.** - 1970.
   Contents: memorandum to J. Wesley Graham from J.F. Bolce re systems projects.

File 866 **Boniface, Jim.** - 1970-1972.
   Contents: material relating to activies of Systems Information area. Includes memoranda, reports.

File 867 **A Brief prepared by the University of Waterloo outlining future computing equipment requirements, May 1966.** - 1966.
   Contents: Ralph G. Stanton's copy of this report.
   Loose report.

File 868 **Burroughs compilogram.** - 1961.
   Contents: two variants in kit form of a "compilogram".
   Loose envelope.
   Oversize

File 869 **C.A.I.** - [1970].
   Contents: material on APL: APL comquiz applications (includes computer output of drills), photocopies of two APL Plus manuals.

File 870 **Canada Council.** - 1973-1974.
   Contents: application sent to J. Wesley Graham for review.
   Restricted.

File 871 **Canada Council: Killam programme.** - 1970-1972.
   Contents: one evaluation by J. Wesley Graham of an application on artificial intelligence.

File 872 **Canadian Standards Association [file 1 of 2].** - 1971-1973.
   Contents: material relating to the Canadian Standards Association Committee on Data Communications. Includes minutes, background reading, correspondence.

File 873 **Canadian Standards Association [file 2 of 2].** - 1971-1973.
   Contents: material relating to the Canadian Standards Association Committee on Data Communications. Includes minutes, background reading, correspondence.

File 874 **Capital Growth and Progress conference.** - 1971.
   Contents: proposal for a conference to be held at University of Waterloo, with associated correspondence.

File 875 **CCG [Computer Co-ordination Group]: 1970-1971 Task Force on Computer Communication.** - 1970-1972.
   Contents: drafts of the Canadian Computer/Communications Task Force "Survey of computer/communications activities at Canadian Universities", May, 1972. Includes associated correspondence, memoranda, notes, background documentation.

File 876 **CCG [Computer Co-ordination Group]: 1970 Task Force on Computer Charging.** - 1970.
   Contents: one copy of Report of the Task Force on Computer Charging, June 1, 1970, associated correspondence and memoranda.

File 877 **CCG [Computer Co-ordination Group]: general correspondence.** - 1970-1971.
   The Computer Coordination Group was set up by the Committee of Presidents of Universities of Ontario in 1969 as a result of recommendations of the Joint Ad-Hoc Subcommittee on Regional Computing Centres in 1968.
   Contents: material by and about the committee, including correspondence, ephemera, publicity, reports, publications.

File 878 **CCG [Computer Co-ordination Group]: proposal and report on Central data bank on students and resources of Ontario, July 1970.** - 1969-1970.
   Contents: material about a provincial data bank, including correspondence, reports, publications.

File 879   **CCG [Computer Co-ordination Group]: Report on Regional Computing Centre
              development, Feb., 1969.** - 1969.
                      *Contents: includes two copies of the report by the Joint Ad Hoc Subcommittee on
              Regional Computing Centres, Feb. 1969 to the Committee on University Affairs, ms. notes,
              counter-proposals from Guelph.*

File 880   **Charge-out.** - 1967-1969.
                      *Contents: material relating to policies and procedures for the Computing Centre's
              charge-out system to users.*

File 881   **Charge-out.** - 1969-1970.
                      *Contents: material relating to policies and procedures for the Computing Centre's
              charge-out system to users.*

File 882   **Charge-out policy.** - 1968.
                      Contents: material re calculating charges for computer use.

File 883   **Charge-out policy.** - 1968.
                      *Contents: proposal for the Computing Centre's charge-out policy, copies of job
              requests.*

File 884   **Charge-out policy.** - 1968.
                      Contents: J. Wesley Graham ms. notes, memoranda, working papers.

File 885   **Charge-out policy.** - 1968-1969.
                      Contents: correspondence from other institutions concerning their charge-out policies.

File 886   **[Charge-out policy]: Executive Council: minutes of meetings.** - 1971.
                      *Contents: agendas, minutes, supporting materials. These minutes pertain to
              computer charge-out policy.*

File 887   **Charge-out policy [file 1 of 2].** - 1970-1975.
                      *Contents: material relating to variety of activities, including budget and financial
              information for the Computing Centre and for CSG, personnel policy, personal and business
              correspondence, Computing Centre directory, Mathematics Faculty computer usage and
              needs, Graphics Group report and data cell usage policy.*
                      Original title: My filing.

File 888   **Charge-out policy [file 2 of 2].** - 1970-1975.
                      *Contents: material relating to variety of activities, including budget and financial
              information for the Computing Centre and for CSG, personnel policy, personal and business
              correspondence, Computing Centre directory, Mathematics Faculty computer usage and
              needs, Graphics Group report and data cell usage policy.*
                      Original title: My filing.

File 889   **Chemical Institute of Canada: Digital Computation Workshop, June, 1963.** - 1963.
                      *Contents: material relating to a two-week workshop held at the University of Waterloo
              in June 1963 under the auspices of the Chemical Institute of Canada's Machine Computation
              Project and which was directed by J. Wesley Graham. The workshop was to encourage the use
              of computers in undergraduate education and to engage graduated chemical engineers in
              industry in computer use. The file contains correspondence to and from R. Stanton, Wes
              Graham and A.I. Johnson, participant lists and other material relating to workshop
              arrangements. Includes "Report on the Digital Computation Workshop held at the University
              of Waterloo, June 10-21, 1963," by A.I. Johnson, "Analysis of chemical engineering
              operations," by A.I. Johnson (mimeograph), "An introduction to digital programming of
              chemical engineering problems," by A.I. Johnson [reprint], a paper entitled "Analog
              computation workshop," an experimental workshop by the Chemical institure of Canada held
              in Sarnia.*
                      Title on folder: Chem eng seminar.

File 890   **Chemical Institute of Canada: Digital Computation Workshop, June, 1963.** - 1963.
                      *Contents: material relating to a two-week workshop held at the University of Waterloo
              in June 1963 under the auspices of the Chemical Institute of Canada's Machine Computation
              Project and which was directed by J. Wesley Graham. The workshop was to encourage the use
              of computers in undergraduate education and to engage graduated chemical engineers in
              industry in computer use. The file contains correspondence, participant lists and other material
              relating to workshop arrangements.*
                      Title on folder: Chem eng seminar.

File 891   **[Chemical Institute of Canada: Digital Computation Workshop, June, 1963]: Lecture notes for analysis of chemical engineering problems / Digital Computation Workshop, University of Waterloo, June 10-21, 1963: a joint activity of The Machine Computation Project, Chemical Institute of Canada, The Computation Centre, University of Waterloo, The International Business Machines Company Ltd.** - 1963. - ca. 100 leaves.
    Contents: mimeograph publication.
    Notes prepared by I.A. Johnson.
    Loose publication.
Added Entries: American Council on Education.

File 892   **[Chemical Institute of Canada: Digital Computation Workshop, June, 1963]: minutes of meeting regarding digital workshop at University of Waterloo.** - 1963.
    Contents: minutes of one meeting [probably about the Chemical Institute of Canada workshop held June 1963].
    Loose papers.

File 893   **Chinese delegation visit.** - 1972.
    Contents: includes itinerary, transparencies for presentation to the delegation from the Academy of Science of the People's Republic of China, Nov. 11, 1972.

File 894   **Classroom experiment: registrations, 1967-1968.** - 1967.
    Contents: correspondence and enrolment lists from High Schools participating in this University of Waterloo experiment in providing computer science instruction in secondary schools.

File 895   **Co-op article, U of W.** - [1963].
    Contents: University of Waterloo announcement of "Co-operative programme in honours mathematics with actuarial and computer science options."
    Untitled folder.

File 896   **Co-operative Mathematics announcement.** - [196-].
    Contents: loose undated form letter describing initiation of the co-operative mathematics program, under name of J.W. G.

File 897   **COGO [Co-ordinate Geometry Program].** - 1970.
    Contents: material re IBM COGO agreement. Includes copy of agreement, correspondence.

File 898   **The compilation and execution of FORTRAN II, FORGO and SPS programmes.** - [196-].
    Contents: 5 p. University of Waterloo computer information and instructional material.
    Loose papers.

File 899   **Computer assisted instruction.** - 1967-1969.
    Contents: technical reports sent by the Institute for Computer Assisted Instruction in response to queries by University of Waterloo Consulting Services.

File 900   **Computer assisted instruction.** - 1968-1972.
    Contents: material relating to computer assisted instruction, primarily reports and papers. One is from Red Deer College, on "mechanics of English" and the rest are from the Institute for Computer Assisted Instruction.

File 901   **Computer budget (up to June 30, 1965).** - 1962-1965.
    Contents: material relating to costs of all sorts for the computing centre, from salaries to equipment. Includes correspondence, memoranda, notes, calculations.
    Restricted.

File 902   **Computer budget: July 1, 1965-June 30, 1966.** - 1965-1966.
    Contents: material relating to costs of all sorts for the computing centre, from salaries to equipment. Includes correspondence, memoranda, notes, calculations.
    Restricted.

File 903   **Computer budget: July 1, 1966-June 30, 1967.** - 1966-1967.
    Contents: material relating to costs of all sorts for the computing centre, from salaries to equipment. Includes correspondence, memoranda, notes, calculations.

File 904   **Computer Centre, University of Waterloo: hardware and software project reports / prepared for the Department of Co-ordination and Placement by Robert G. Thwaites, Dec. 5, 1969.** - 1969.
    Contents: one student work-term report.
    Loose report.

File 905   **Computer changes, 1970.** - 1970.
                          Untitled.
                          Loose papers outlining schedule of changes.

File 906   **Computer characteristics quarterly / Adams Associates.** - 1968.
                          Contents: 2 issues of this publication which lists features of all available digital
                  computers.
                          Publications: loose.

File 907   **Computer Committee** - 1957-1961.
                          Contents: B.R. Myers' file as Director of the University Computing Centre. Includes
                  one memorandum from the University of Illinois dated 1957. Otherwise all material is
                  University of Waterloo, 1959-1961 and includes correspondence, memoranda, minutes and
                  reports. Includes information on costs and installation of the IBM 1620 and 610, a University
                  of Waterloo survey of computer users in Canadian educational institutions, minutes and
                  reports of the Computer Committee re computing needs of the University.
                          Untitled folder.

File 908   **Computer Committee** - 1959-1961.
                          Contents: B.R. Myers' file as Director of the University Computing Centre. Note inside
                  front cover "Cleaned out, March 3, 1961 BRM." File then passed to Dr. R.G. Stanton and
                  consists of material gathered, received or written by J. Wesley Graham and passed on to BRM.
                  Includes J. Wesley Graham ms. notes for and announcement of two one-hour lectures on
                  "digital computery" for faculty and staff.

File 909   **Computer configurations.** - [196-].
                          Contents: printed and hand-drawn diagrams, includes ms. notes.

File 910   **[Computer equipment]: Orders outstanding.** - 1966-1967.
                          Contents: material relating to equipment orders. Includes correspondence,
                  memoranda, notes, calculations.

File 911   **Computer: historical.** - 1960-1962.
                          Contents: ms. notes, correspondence re NRC grant. Includes Computing Centre
                  budget estimates for 1962-1963, "History of Computer Committee Activities."

File 912   **Computer policy.** - 1959-1967.
                          Contents: procedures, rules and regulations for operation of computers at the
                  University of Waterloo.

File 912b   **Computer prices.** - 1965.
                          Contents: correspondence, ms. notes, product information.

File 913   **Computer supplies (1).** - 1963.

File 914   **Computer supplies (2).** - 1964-1965.

File 915   **Computer supplies: office services.** - 1968.

File 916   **Computer Systems Group.** - 1969.
                          Contents: material relating to a proposal to establish a Computer Systems Group
                  within the Dept. of Applied Analysis and Computer Science. Includes correspondence, draft
                  proposals,notes, financial data.

File 917   **Computer Systems Group.** - 1969-1973.
                          The Computer Systems Group developed out of the free distribution of the WATFOR
                  compiler and the perceived need to have a semi-autonomous unit in place to distribute and
                  maintain computer systems developed at UW, for a fee.
                          Contents: material on the formation, financing and operations of the Computer
                  Systems Group. Includes constitution,. correspondence, proposals, memoranda, minutes, etc.

File 918   **Computers in engineering education.** - 1960.
                          Contents: two reports: Use of computers in engineering undergraduate teaching / by
                  Donald L. Katz and Elliott I. Organick, the University of Michigan, presented at the 68th
                  Annual meeting, American Society for Engineering Education, Purdue University, June 20-24,
                  1960, and Conference report on the use of computers in engineering classroom instruction,
                  sponsored by the Ford Foundation Computer Project at the University of Michigan, April 29
                  and 30, 1960, Donald L. Katz, Director.
                          Publication.
                  Added Entries: Organick, Elliott J. Katz, Donald L.

File 919   **Computing articles, 1960-1967: [bibliography].** - [1960-1967].
            Untitled binder.

File 920   **Computing articles, 1960-1967: retrieval environment.** - [1960-1967].
            Untitled binder.

File 921   **Computing articles, 1960-1967: data structures.** - [1960-1967].
            Untitled binder.

File 922   **Computing articles, 1960-1967: text analysis.** - [1960-1967].
            Untitled binder.

File 923   **Computing articles, 1960-1967: retrieval system design.** - [1960-1967].
            Untitled binder.

File 924   **Computing articles, 1960-1967: text processing system.** - [1960-1967].
            Untitled binder.

File 925   **Computing articles, 1960-1967: Student text: introduction to IBM system/360:
            direct access storage devices and organization methods / IBM.** - 1969, c1966.
            *Publication in binder of articles. Edition C20-1649-3, major revision, supersedes 20-
            1649-2.*

File 926   **Computing articles, 1960-1967.** - 1960-1967.
            *Contents: Calvin C. Gotlieb, "General purpose programming for business
            applications," _Advances in Computing_, 1960; George A. Miller, "Computers,
            communication, and cognition," _Advancement of Science_ (January 1965) : [417]-430; Data
            Processing Digest, v. 11, no. 11., Nov. 1965; Hal C. Becker, "Some experimental visual
            threshold advancement systems for radiographs," New Orleans : IBM, 1963; H.B. Kerr, "The
            use of mark sensing equipment in the preparation, processing, and execution of student
            written programs," 1965; National Computing Centre Newsletter no. 10, special edition, 1968.
            Added Entries: Miller, George A.*

File 927   **Computing articles, 1967.** - 1967.
            *Contents: two issues of _Monetary Times_ containing parts 5 and 7, on automation
            and government respectively, of a twelve-part series on the year 2000.
            Added Entries: Miller, George A.*

File 928   **Computing articles, 1970** - 1970.
            *Contents: photocopy of an article by C.G. Bilyea, Director of Personnel and Assistant
            Business Officer at the University of Waterloo, "Universities neglecting needs of Business,
            survey finds," _Canadioan Datasystems (Sept. 1970): 42-47.
            Added Entries: Miller, George A.*

File 929   **Computing Centre: annual report.** - 1970.
            Contents: annual report (ts., original) with ms. corrections.

File 930   **[Computing Centre]: Minutes of Associate Directors' meetings, Nov. 1971 and July
            1973.** - 1971-1973.
            *Contents: minutes marked "confidential."
            "Confidential."*

File 931   **[Computing Centre]: Budget, July 1, 1967 to June 30, 1968.** - 1967-1968.
            Contents: budget working papers including memoranda, notes, calculations.

File 932   **[Computing Centre]: Budget 1968-1969.** - 1967-1968.
            Contents: budget working papers

File 933   **[Computing Centre]: Budget 1968-1969.** - 1968.
            Contents: budget material for 1968-1969.

File 934   **[Computing Centre]: Budget 1969-1970.** - 1969.
            *Contents: budget material for 1969-1970. Some marked "confidential".
            Restricted.*

File 935   **Computing Centre: budget data 1970-1971.** - 1970-1971.
            Contents: budget material for 1971-1972.

File 936   **Computing Centre: budget summaries Oct. 1968-April 1969.** - 1968-1969.
                  Contents: budget material including salary data, monthly expense and income
                  account reports.

File 937   **[Computing Centre Committee]: Dept. meetings.** - 1968.
                  Contents: minutes, agendas and working papers of the Computing Centre
                  Committee. Some papers marked "Confidential".
                  Some papers marked "Confidential".

File 938   **[Computing Centre Committee]: Dept. meetings.** - 1968.
                  Contents: contains some minutes, agendas and working papers of the Computing
                  Centre Committee, as well as several ms. pages by J. Wesley Graham on how to run the centre.

File 939   **[Computing Centre]: Internal Management Committee, Sept. 1969-Sept. 1970.** -
                  1969-1970.
                  Contents: minutes of the Computing Centre Internal Management Committee.

File 940   **Computing Centre Management Committee, Dec. 1968-Oct. 1969 [file 1 of 3].** - 1968-
                  1969.
                  Contents: materials relating to the establishment and activities of the Computing
                  Centre Management Committee. Includes terms of reference, minutes starting with the first
                  meeting, Dec. 31, 1968, working papers, memoranda, notes. Variant name: Computing
                  Centre Management Advisory Committee.
                  Untitled.
                  Loose binder.

File 941   **Computing Centre Management Committee, Dec. 1968-Oct. 1969 [file 2 of 3].** - 1968-
                  1969.
                  Contents: materials relating to the establishment and activities of the Computing
                  Centre Management Committee. Includes terms of reference, minutes starting with the first
                  meeting, Dec. 31, 1968, working papers, memoranda, notes. Variant name: Computing
                  Centre Management Advisory Committee.
                  Untitled.
                  Loose binder.

File 942   **Computing Centre Management Committee, Dec. 1968-Oct. 1969 [file 3 of 3].** - 1968-
                  1969.
                  Contents: materials relating to the establishment and activities of the Computing
                  Centre Management Committee. Includes terms of reference, minutes starting with the first
                  meeting, Dec. 31, 1968, working papers, memoranda, notes. Variant name: Computing
                  Centre Management Advisory Committee.
                  Untitled.
                  Loose binder.

File 943   **Computing Centre Newsletter.** - 1966.
                  Contents: first issue Sept. 1966. J. Wesley Graham's copy.
                  Publications.

File 944   **Computing Centre Newsletter.** - 1967.
                  Contents: Some issues are original ts. masters. J. Wesley Graham's copy.
                  Publications.

File 945   **Computing Centre Newsletter.** - 1968.
                  Contents: Some issues are original ts. masters. J. Wesley Graham's copy.
                  Publications.

File 946   **Computing Centre Newsletter.** - 1969.
                  Contents: J. Wesley Graham's copy.
                  Publications.

File 947   **Computing Centre Newsletter.** - 1970.
                  Contents: J. Wesley Graham's copy.
                  Publications.

File 948   **Computing Centre Newsletter.** - 1971.
                  Contents: J. Wesley Graham's copy.
                  Publications.

File 949   **Computing Centre Newsletter.** - 1975.
                  Contents: J. Wesley Graham's copy.
                  Publications.

File 950   **Computing Centre Newsletter.** - 1976.
            Contents: J. Wesley Graham's copy. Incomplete.
            Publications.

File 951   **Computing Centre Newsletter.** - 1977.
            Contents: J. Wesley Graham's copy. Incomplete.
            Publications.

File 952   **Computing Centre Newsletter.** - 1978.
            Contents: J. Wesley Graham's copy. Incomplete.
            Publications.

File 953   **Computing Centre: organization charts.** - 1971.
            Contents: organization charts.

File 954   **Computing Centre report, Dec. 8, 1969, by Systemation Inc.** - 1970.
            Contents: one report.
            Loose report.

File 955   **[Computing Centre]: UNESCO report, Dr. J.O. Sonuga.** - 1966.
            Contents: original ts. of The Computing Centre, University of Waterloo, a report
            written by Dr. J.O. Sonuga, Faculty of Engineering, University of Lagos, who visited University
            of Waterloo on a UNESCO Fellowship, Jan. 19-May 13 1966.
            Title from cover.
            Loose report.

File 956   **Computing Centre Tours.** - 1966-1967.
            Contents: correspondence, memoranda re tours of the computing facilities at the
            University of Waterloo.

File 957   **Computing Centre: W. Scott.** - [196-].
            Contents: stenographer's notebook containing calculations.
            Untitled
            Loose item.

File 958   **Computing salaries.** - 1961.
            Contents: one computer salary survey.
            Loose item.

File 959   **Computing salaries.** - 1966.
            Contents: one Government of Canada "classification standard" for Computer Systems
            Administrative Group.
            Loose item.
            "Restricted".

File 960   **Computing Services: monthly reports.** - 1972.
            Contents: monthly reports on Computing Services activities such as tours, library
            usage, manuals received and distributed, courses, distribution of software, publications
            produced.
            Untitled binder.

File 961   **Concordance: Dr. Phil Smith.** - 1968.
            Contents: material relating to a proposed computer-produced Old English poetry
            concordance. Includes proposal letter from Dr. Smith, and a reply with technical evaluation for
            the project requirements.

File 962   **Concordance: Dr. Phil Smith.** - 1973.
            Contents: material relating to computer-produced Old English concordance. Includes
            memoranda, notes, proposal, sample text.

File 963   **Conferences.** - 1970.
            Contents: promotional material for conferences.

File 964   **Confidential.** - 1966-1967.
            Contents: material re staffing and salaries.
            Restricted.

File 965   **Consultant's report [illegible].** - 1969.
            Contents: J. Wesley Graham ms. notes re WASS.

File 966   **Control Data Corp.** - 1970.
                Contents: one memorandum marked "confidential".
                Confidential.

File 967   **Cooper.** - 1970.
                Contents: one memorandum from J.C. Wilson re chargeout scheme, cc R.H. Cooper.

File 968   **Cooper.** - 1970.
                Contents: memoranda to and from R.H. Cooper [Manager of Operations].

File 969   **Cormack, G.D., Prof.** - 1969.
                Contents: correspondence relating to prospective employment.

File 970   **Correspondence.** - 1970.
                Contents: one letter to J. Wesley Graham from Stratford and District Community
                Services Council asking for advice on designing a questionnaire to be processed by computer.
                Title on folder illegible.

File 971   **Correspondence: J.W. Graham, 1967-1968.** - 1967-1968.

File 972   **Correspondence: J.W. Graham, 1969-1970.** - 1969-1970.

File 973   **Dale, Walter** - 1970-1972.
                Contents: material received by J. Wesley Graham from W. Dale re Systems projects.
                Includes memoranda, reports, etc.

File 974   **Dale, Walter.** - 1971.
                Contents: material received by J. Wesley Graham from W. Dale re Systems projects.
                Includes memoranda, reports, etc.

File 975   **Data for graphs and information.** - 1965.
                Contents: materials collected possibly for preparing the Registrar's report. Includes
                statistics and hand-drawn graphs of local and other enrolment figures.

File 976   **Data Processing.** - 1969-1972.
                Contents: material about the Data Processing Department. Includes correspondence,
                memoranda, reports, notes, etc.

File 977   **Data Processing Department: Falcon [Hugh Falcon, Manager (pro tem) of Data**
                Processing]. - 1969.
                Contents: material documenting operations and re-organization of Data Processing
                Dept. Includes memoranda, reports, ms. notes., minutes of meetings.

File 978   **[Data Processing Department]: Howe [Mike Howe, Associate Director, Data**
                Processing]. - 1968-1969.
                Contents: memoranda and other material to and from M.G. Howe, Associate Director,
                Computing Centre, Data Processing.

File 979   **Data Processing Department: Howe [Mike Howe, Associate Director, Data**
                Processing]. - 1968-1969.
                Contents: material documenting operations and re-organization of Data Processing
                Dept. Includes memoranda, reports, ms. notes.

File 980   **Data Processing report, August 30, 1968.** - 1968.
                Contents: one report on the functions, activities and plans Data Processing Department.
                Loose report.

File 981   **Data processing reports.** - 1969.
                Contents: memoranda re problems, Operator's Discovery Meeting minutes.

File 982   **Data Processing: Systemation Incorporated report on data processing at the**
                University of Waterloo. - 1970.
                Contents: one report.

File 983   **Data set allocator.** - [1970].
                Contents: one ms. note.

File 984 **Dept. of Communications: conference.** - 1970.
  Contents: material about a proposed conference, Man-Machine Computer Conference, sponsored by Canada Dept. of Communications to be held at the University of Waterloo but which was postponed. Includes material on National Conference on Computers: Privacy and Freedom of Information, held in May 1970 and attended by J. Wesley Graham.

File 985 **[Digital] DEC/11.** - 1973-1974.
  Contents: photocopies of articles and proposals to the University of Waterloo re DECsystem 10.

File 986 **Digital DECsystem 1070.** - 1972.
  Contents: correspondence, product information about a system to replace the IBM 360/50.

File 987 **Doyle.** - [1970?].
  Contents: report: "OSSWAT: the Waterloo Operating System Simulator."

File 988 **DP/CC meetings, Dec. 1970-June 1971 [file 1 of 3].** - 1970-1971.
  Contents: minutes of daily meetings.

File 989 **DP/CC meetings, Dec. 1970-June 1971 [file 2 of 3].** - 1970-1971.
  Contents: minutes of daily meetings.

File 990 **DP/CC meetings, Dec. 1970-June 1971 [file 3 of 3].** - 1970-1971.
  Contents: minutes of daily meetings.

File 991 **DP/CC meetings, July-Dec. 1971 [file 1 of 3].** - 1971.
  Contents: minutes of daily meetings.

File 992 **DP/CC meetings, July-Dec. 1971 [file 2 of 3].** - 1971.
  Contents: minutes of daily meetings.

File 993 **DP/CC meetings, July-Dec. 1971 [file 3 of 3].** - 1971.
  Contents: minutes of daily meetings.

File 994 **DP/CC meetings, Jan.-Mar. 1972.** - 1972.
  Contents: minutes of daily meetings.

File 995 **Dr. J.C. Wilson: confidential.** - 1968.
  Contents: correspondence.
  Restricted.

File 996 **DRB [Defence Research Board] grant, 1968.** - 1968-1969.
  Contents: material relating to J. Wesley Graham project (joint with Dirksen, Cress) "Development of a re-entrant, in-core version of FORTRAN IV capable of supporting job entry from remote terminals." Includes correspondence, proposal, memoranda, information about the grant program, etc.

File 997 **DRB [Defence Research Board] grant, 1968-1970.** - 1969-1970.
  Contents: material relating to J. Wesley Graham project "Development of a re-entrant, in-core version of FORTRAN IV capable of supporting job entry from remote terminals." Includes correspondence, annual repport for 1968, etc.

File 998 **DRB [Defence Research Board] grant, 1969-1972.** - 1970-1971.
  Contents: material relating to J. Wesley Graham project "Development of a re-entrant, in-core version of FORTRAN IV capable of supporting job entry from remote terminals." Includes correspondence, application, annual repport for 1969, etc.

File 999 **Engineering student terminal.** - 1970.
  Contents: material relating to installation of a second student terminal in Engineering. Includes memoranda, use statistics.

File 1000 **Equipment costs.** - [196-].
  Contents: ms. notes.
  Untitled folder.

File 1001 **Equipment costs.** - 1966.
  Contents: correspondence, ms. notes.

File 1002　　**Faculty consultation.**　- 1967.
　　　　　　　　Contents: memorandum to H.E. Petch from J. Wesley Graham.

File 1003　　**[Filing].**　- 1960.
　　　　　　　　Contents: salary schedule 1960, material for promotions meeting, final class lists.
　　　　　　　　Untitled.
　　　　　　　　Loose papers.
　　　　　　　　Restricted.

File 1004　　**[Filing].**　- 1965.
　　　　　　　　Contents: materials on a variety of topics, including IBM rental costs, computer course
information from the U.S., information of the IBM 1401 and 7040 systems, Math 23 and Math
32, Mathematics and Computer building, computing charges. Includes correspondence,
memoranda, ms.notes, ephemera.*
　　　　　　　　Untitled folder.
　　　　　　　　Restricted.

File 1005　　**Filing.**　- 1970.
　　　　　　　　Contents: material relating to variety of activities, including budget and financial
information for the Computing Centre and for CSG, personnel policy, personal and business
correspondence, Computing Centre directory, Mathematics Faculty computer usage and
needs, Graphics Group report and data cell usage policy.*
　　　　　　　　Original title: My filing.

File 1006　　**Florida Atlantic University Conference, March 1973.**　- 1973.
　　　　　　　　Contents: promotional material.

File 1007　　**FORGO.**　- 1964-1966.
　　　　　　　　Contents: material re FORGO, including correspondence, report.
　　　　　　Added Entries: Graham, J.W. Statistical report generator.

File 1008　　**Fortran IV programmer's guide XIV: Fortran IV specifications for the IBM 360/75 at**
　　　　　　　　the University of Waterloo / edited by R.J. Collins, January 1968 [file 1 of 2].
　　　　　　　　- 1968.
　　　　　　　　Contents: loose sections of a ts. (photocopies) whose original is ca. 200 p., in no
order, many duplicates.*
　　　　　　　　Loose papers.

File 1009　　**Fortran IV programmer's guide XIV: Fortran IV specifications for the IBM 360/75 at**
　　　　　　　　the University of Waterloo / edited by R.J. Collins, January 1968 [file 2 of 2].
　　　　　　　　- 1968.
　　　　　　　　Contents: loose sections of a ts. (photocopies) whose original is ca. 200 p., in no
order, many duplicates.*
　　　　　　　　Loose papers.

File 1010　　**GENASYS.**　- 1971-1972.
　　　　　　　　Contents: material about the General Addressing System for use by University
departments.*

File 1011　　**[GENASYS]: HASP III Task Force: minutes.**　- 1972.
　　　　　　　　Contents: material about the General Addressing System for use by University
departments.*

File 1012　　**Grossman.**　- 1970.
　　　　　　　　Contents: material relating to IBM 360/44. Includes report, correspondence, schedule.

File 1013　　**Hardware modifications to the IBM 1710 & 1620.**　- 1966-1967.
　　　　　　　　Contents: one copy of publication U/W mode for the IBM 1710 with supplementary
papers.*

File 1014　　**Hill.**　- 1970.
　　　　　　　　Contents: memoranda to and from G. Hill [administrative assistant?], material
prepared by G. Hill. Includes list of commercial and non commercial users of the 360/75; aslo
J. Wesley Graham ms. re organization of Computing Centre.*

File 1015　　**Historical.**　- 1966.
　　　　　　　　Contents: proposal to the University of Waterloo from Control Data Canada for a CDC
6400 (photocopy), addressed to Ralph G. Stanton.*

File 1016　　**IBM.** - 1969-1970.
　　　　　　　Contents: correspondence, memoranda, reports, etc. re IBM installations at the University of Waterloo.

File 1017　　**[IBM /360]: /360 WATFIV: implementation guide / prepared by P.H. Cress, P.H. Dirksen, S.J. Ward, September, 1969.** - 1969.
　　　　　　　Loose publication
　　　　Added Entries: Cress, P.H. Dirksen, P.H. Ward, S.J.

File 1018　　**[IBM /360]: Operator's manual / by Heather Anne Lawson [file 1 of 2].** - 1969.
　　　　　　　Contents: internal manual for operators of the IBM /360 model 75 at the University of Waterloo.

File 1019　　**[IBM /360]: Operator's manual / by Heather Anne Lawson [file 2 of 2].** - 1969.
　　　　　　　Contents: internal manual for operators of the IBM /360 model 75 at the University of Waterloo.

File 1020　　**[IBM /360]: 50 cents of PL/1.** - 1969.
　　　　　　　Contents: one copy of a publication by the Computer Science Club, University of Waterloo consisting of notes for a course in PL/1, compiled by K.B. Rugger.
　　　　　　　Loose item.
　　　　Added Entries: Rugger, K.B.

File 1021　　**IBM 610 manual.** - [1960].
　　　　　　　Contents: one duo-tang of material about the IBM 610 computer. This copy sent to J.W. Graham by Basil R. Myers, Apr. 20, 1960.
　　　　　　　Loose item.

File 1022　　**[IBM 650]: Head Office tape sort.** - [196-].
　　　　　　　Contents: coding sheets for the IBM 650, filled in, computer printout.

File 1023　　**IBM 1620/1710.** - 1960.
　　　　　　　Contents: publication: IBM 1620 Fortran, preliminary specifications as well as coding sheets. Owned by Dr. N.C. Lind.
　　　　　　　Loose papers. Includes publication.

File 1024　　**[IBM]: 1620/1710 SPS.** - [196-].
　　　　　　　Contents: ms. programming notes, IBM publications on the 1620/1710.

File 1025　　**[IBM]: 1620 Users Group.** - 1961-1962.
　　　　　　　Contents: material relating to the IBM 1620 Users Group. Includes bylaws and other material issued by IBM.

File 1026　　**[IBM]: 1620 Users Group.** - 1962-1966.
　　　　　　　Contents: material relating to the IBM 1620 Users group. Includes correspondence, ephemera, bulk mailings, etc.

File 1027　　**[IBM]: [1620 Users Group]: Chicago.** - 1961.
　　　　　　　Contents: material relating to meetings of the IBM 1620 Users Group, Eastern Region, Sept.-Oct. 1961. The file contains meeting information, copies of papers presented.
　　　　Added Entries: IBM 1620 Users Group, Eastern Region

File 1028　　**IBM 7090 data processing system configuration.** - [196-].
　　　　　　　Contents: one sheet.

File 1029　　**IBM correspondence.** - 1958-1959.
　　　　　　　Contents: correspondence from IBM to Dr. Ralph Stanton, as well as and other material relating to IBM and its products.
　　　　　　　Untitled.
　　　　　　　Loose papers.

File 1030　　**IBM correspondence.** - 1960.
　　　　　　　Contents: correspondence re the 1620 and also a survey of computer facilities in Canadian educational institutions.
　　　　　　　Loose correspondence.

File 1031　　**IBM correspondence, May 1961-Dec. 1963.** - 1961-1963.

File 1032　　**IBM correspondence, Jan.-Dec. 1964.** - 1964.

File 1033   **IBM correspondence, Jan.-Dec. 1965.** - 1965.

File 1034   **IBM correspondence, Jan.-Dec. 1966.** - 1966.

File 1035   **IBM correspondence: Mathematics and Computer Building.** - 1965.
            Contents: J. Wesley Graham drafts (ms., ts. carbons) of letters and proposal to Mr. J.E. Brent, president of IBM, requesting financial support in the construction the Mathematics and Computer building.

File 1036   **IBM: data processing.** - 1966.
            Contents: binder of IBM Application Program publications on the 1130 system, including a student language teaching guide.
            Publications.

File 1037   **IBM: data processing.** - 1966-1967.
            Contents: binder of IBM Systems Reference Library publications.
            Publications.

File 1038   **IBM: data processing.** - 1971.
            Contents: report to the University of Waterloo on current and future computing capacity requirements.

File 1039   **IBM forms.** - [196-].
            Contents: IBM 1620 programming sheets, IBM 514 reproducing punch, 650 program sheets, 1620/1710 absolute system coding sheets.
            Loose pads of forms.

File 1040   **IBM: mathematics serving man.** - 1959.
            Contents: printed promotional items from IBM with cover letter.
            Loose envelope.

File 1041   **[IBM]: Modifications 1620-1710.** - 1964.
            Contents: information from IBM re 1620 installations.
            Restricted.
       Added Entries: Graham, J.W. Statistical report generator.

File 1042   **IBM proposal: University of Waterloo: IBM 360.** - 1966.
            Contents: binder containing reply to "Description of the hardware and software requirements for a large scale digital computer at the University of Waterloo," addressed to Professor J.W. Graham.

File 1043   **IBM service for consultants.** - 1970-1974.
            Contents: Type catalogue, Data processing education, Special installation services, Systems engineering services, Program products.
            Publication.

File 1044   **IBM service for consultants.** - 1974.
            Contents: Machines.
            Publication.

File 1045   **IBM service for consultants [file 1 of 3].** - 1974.
            Contents: General information, Type I and type II programs, Systems, Programs/SCP.
            Publication.

File 1046   **IBM service for consultants [file 2 of 3].** - 1974.
            Publication.

File 1047   **IBM service for consultants [file 3 of 3].** - 1974.
            Publication.

File 1048   **IBM Systems Bulletins.** - 1960.
            Contents: two IBM systems bulletins: 1401-13, Dec. 2, 1960, and 1410 Data Processing System Bulletin.
            Loose publications.

File 1049   **IBM Systems Reference Library: IBM system /360 operating system, USA standard COBOL.** - 1969.
            Contents: publication with many ms. notes inserted, note on t.p.: "This is the one."
            Loose publications.

File 1050   **IBM systems reference library: IBM 7040-7044: principles of operation.** - 1964.
                         Untitled folder.

File 1051   **[IBM] Systems Research Institute.** - 1966.
                         Contents: material relating to the IBM Systems Research Institure. Includes ms.
                 notes, syllabus.

File 1052   **Increases.** - 1966-1969.
                         Contents: salary information.
                         Restricted.

File 1053   **Information retrieval [file 1 of 2].** - 1960.
                         Contents: one folder of articles sent to J.W. Graham by Basil R. Myers, Apr. 20, 1960.

File 1054   **Information retrieval [file 2 of 2].** - 1960.
                         Contents: one folder of articles sent to J.W. Graham by Basil R. Myers, Apr. 20, 1960.

File 1055   **Information retrieval project.** - 1969.
                         Contents: ms. notes.

File 1056   **Information Systems and Planning: periodic reports.** - [1971].
                         Contents: a procedures manual describing reports: purpose, distribution, operative
                 procedures.

File 1057   **Information Systems and Planning: routine reports [file 1 of three].** - [1972].
                         Contents: a procedures manual describing reports: purpose, distribution, operative
                 procedures.

File 1058   **Information Systems and Planning: routine reports [file 2 of three].** - [1972].
                         Contents: a procedures manual describing reports: purpose, distribution, operative
                 procedures.

File 1059   **Information Systems and Planning: routine reports [file 3 of three].** - [1972].
                         Contents: a procedures manual describing reports: purpose, distribution, operative
                 procedures.

File 1060   **Installation: computer equipment.** - 1963-1965.
                         Contents: material relating to the installation of the IBM 1410, 1620, 7040. Includes
                 correspondence, memoranda, ms. notes, printed product information, sketches, etc. Includes
                 information about conversion of Physics Room 208 as a computer room.

File 1061   **IPL V.** - [196-].
                         Contents: material about the IPL V for the 1620. Includes ms and ts. (oroginal) drafts
                 for a user's guide and other handouts.

File 1062   **IPL V.** - [1960?].
                         Contents : ms. notes, IPL coding sheets.
                         Untitled folder. Find out what IPL stands for.

File 1063   **J.W. Graham.** - [196-].
                         Contents: coding sheet for the IBM 1620/1710, filled in.

File 1064   **Joint Faculty Council minutes, Sept. 15, 1959.** - 1959.

File 1065   **JWG: meeting Feb. 21, 1969.** - 1969.
                         Contents: one audio reel in an opened envelope, labelled: "Tape Feb. 19/69. To be
                 opened only by J.W. Graham or G.S. Hill".
                         Loose envelope.

File 1066   **Kohn.** - 1969-1970.
                         Contents: memoranda and other material to and from C. Kohn, Project manager,
                 Computing Centre. Includes salary information about individuals.
                         Restricted.

File 1067   **Kritzinger, Pieter.** - 1966-1977.
                         Contents: material relating to Pieter Kritzinger, both a student of and co-author with
                 J. Wesley Graham. Includes correspondence, co-authored papers.

File 1068   **Kritzinger, Pieter: sorting survey.** - 1970-1974.
             Contents: material relating to a survey of sorting at computer installations in Canada by J. Wesley Graham and Pieter Kritzinger done in 1970. Includes ts. original of results of the survey, other survey materials, other materials by Pieter Kritzinger, both original ms. and photocopied ts. Includes one offprint: "A theorem in the theory of compromise merge methods," P.s. Kritzinger and J.W. Graham.

File 1069   **Machine statistics (weekly report), Oct. 1968-1969[i.e. July 1970].** - 1968-1970.
             Contents: usage reports.

File 1070   **Machine statistics (including monthly/daily throughput), Jan.-Dec. 1971 [file 1 of 2].** - 1971.
             Contents: usage reports.

File 1071   **Machine statistics (including monthly/daily throughput), Jan.-Dec. 1971 [file 2 of 2].** - 1971.
             Contents: usage reports.

File 1072   **Machine statistics (including monthly/daily throughput), Jan.-Dec. 1972.** - 1972.
             Contents: usage reports.

File 1073   **Machine statistics.** - 1973.
             Contents: daily reports on computer use.

File 1074   **Management procedures, Computing Centre, University of Waterloo, April 1971 [file 1 of 2].** - 1971.
             Contents: management procedures manual.

File 1075   **Management procedures, Computing Centre, University of Waterloo, April 1971 [file 2 of 2].** - 1971.
             Contents: management procedures manual.

File 1076   **A manual of modern programming techniques.** - [196-?].
             Contents: duo-tang containing photocopy of ts.
             Loose duo-tang.
             Added Entries: Hull, T.E.

File 1077   **Math computer.** - 1968-1969.
             Contents: material relating to Faculty of Mathematics computing. Includes correspondence, memoranda, ms. notes, draft proposals, reports, etc.

File 1078   **Math computer.** - 1969-1970.
             Contents: material relating to Faculty of Mathematics computing. Includes correspondence, memoranda, ms. notes.

File 1079   **Mathematics Faculty Council briefs.** - 1967-1968.
             Contents: copies of briefs and reports:
             1. Undergraduate course description, Computer Science Programme, University of Waterloo, 1967-1968.
             2. [Untitled]: "brief in support of a grant request by the University of Waterloo to the Government of the Province of Ontario for funds to purchase computing equipment over an 11 year period."
             3. List of /360 WATFOR compiler installations, Nov. 15, 1967.

             Subject: WATFOR; WATFOR

File 1080   **Mathematics Faculty Council: minutes, 1967-1970** - 1966-1970.
             Contents: minutes, notes, memoranda, working papers. Includes "Constitution and by-laws for the Mathematics Faculty Council," June 21, 1966.

File 1081   **Mathematics Faculty Council: minutes, 1970.** - 1966-1970.
             Contents: minutes.

File 1082   **Mathematics: offprints, reprints and photocopies of typescripts by Gerald Berman, Neil Roberton, W.T. Tutte, L.N. Carling.** - 1951-[1965?]. - Loose publications.
             Contents: 10 articles by Gerald Berman (one jointly with D.D. Cowan), 1 by Neil Robertson, 1 by W.T. Tutte, one by L.N. Carling.
             Added Entries: Berman, Gerald Robertson, Neil Tutte, W.T. Carling, L.N.

File 1083   **McNaughton.** - 1969-1970.
                        Contents: material from Dave McNaughton, Informing[sic] Services, Computing
                Centre. Includes correspondence, memoranda, ms. notes, draft proposals, reports, etc.

File 1084   **Memo system.** - [1970?].
                        Contents: project description for a system to replace paper memo method of
                communicating.

File 1085   **Memo system.** - [1970?].
                        Contents: document with title: "Proposed memo system user's guide," a
                computerized system to replace paper memo method of communicating.
                        Loose paper.

File 1086   **MENTOR.** - 1964.
                        Contents: manual for MENTOR by R.S. Julius, University of Alberta, 1964.
                Added Entries: Graham, J.W. Statistical report generator.

File 1087   **Message switcher.** - 1970.
                        Contents: transparencies, ms. notes.

File 1088   **Microwave Network Conference, April 8, 1964.** - 1964.
                        Contents: proceedings of the first Microwave Network Conference sponsored by the
                Computer Science Association. J. Wesley Graham was chairman of the University of Waterloo
                group participating in this nation-wide colloquium. The proceedings are "a lightly edited copy
                taken from the tape recording."

File 1089   **Microwave Network Conference, Jan. 29, 1965.** - 1965.
                        Contents: proceedings of the second Microwave Network Conference sponsored by
                the Computer Science Association. J. Wesley Graham was chairman of the University of
                Waterloo group participating in this nation-wide colloquium. The proceedings are edited from
                the tape recording.

File 1090   **Minister of University Affairs: William G. Davis.** - 1967.
                        Contents: one letter to J. Wesley Graham accompanied by copies of two speeches.
                        Untitled.
                        Loose papers.

File 1091   **Mitchell, Sprott's problem.** - [196-].
                        Contents: ms. calculations.

File 1092   **Model 44 Polymer Project.** - 1968.
                        Contents: material relating to the University of Waterloo's part in a project for
                Polymer Corporation, namely, to investigate remote computer control of an industrial process.
                Includes correspondence copies, memoranda, photocopy of an article about the project.

File 1093   **[Model 44 Polymer Project]: Norton.** - 1968.
                        Contents: one memorandum from A.R.M. Norton to J. Wesley Graham on the objects
                and progress of the Norton-Sarnia Computer Control Project (Polymer Corp.).

File 1094   **Monthly reports.** - 1970.
                        Contents: monthly reports on computer use.

File 1095   **Monthly reports, Jan.-Dec. 1971.** - 1971.
                        Contents: monthly reports on computer use.

File 1096   **Monthly reports [file 1 of 2].** - 1972.
                        Contents: monthly reports on computer use.

File 1097   **Monthly reports [file 2 of 2].** - 1972.
                        Contents: monthly reports on computer use.

File 1098   **Monthly reports.** - 1973.
                        Contents: monthly reports on computer use.

File 1099   **Monthly reports: Computing Services.** - 1973.
                        Contents: monthly reports on computer use from Computing services.

File 1100   **Music.** - 1965.
                        Contents: ms. notes and computer output re producing music on the computer.
                Includes computer cards for "Navy Music" and "Oh Susannah".

File 1101   **NRC.** - 1969.
                   Contents: correspondence and memoranda re individual grants and policies from the
                   National Research Council.

File 1102   **OMR.** - 1970.
                   Contents: memoranda concering the Optical Mark Reader.

File 1103   **PACTOLUS.** - 1970.
                   Contents: material re the PACTOLUS conversion project. Includes memorandum, ms.
                   notes, copy of the publication The digital analogue simulator PACTOLUS for /360 and 1710,
                   June 1965, rev. June 1968. Waterloo: Computing Centre, University of Waterloo, 1968.

File 1104   **PDP 10.** - 1970.
                   Contents: ms. notes.

File 1105   **Personnel.** - 1970.
                   Contents: list, ms. notes, correspondence.

File 1106   **Physical planning.** - 1962-1966.
                   Contents: material relating to the use of space in the Physics building. Includes
                   correspondence, memoranda, ms. notes, minutes, floor plans, etc.

File 1107   **Physical Plant and planning in new building.** - 1967.
                   Contents: memoranda, floor plans re Mathematics and Computer Building planning.
                   Includes architect's labelled drawing of the building exterior, with title "Maths and Comuter
                   Faculty, Waterloo," signed "Webb Zerafa Menkes Architects".

File 1108   **[Physical Plant and Planning]: work orders.** - 1962-1967.
                   Contents: work order copies for Dept. of Physical Plant and Planning relating to
                   computing.

File 1109   **Preliminary description of the G-15 ALGO programming system / Bendix Computer**
                   Division, Nov. 25, 1959. - 1959.
                   Contents: 1 ts. (10 p., copy). This copy initialled by RGS [Ralph G. Stanton].
                   Loose item.

File 1110   **President's Advisory Committee on Computing.** - 1967-1969.
                   Contents: original minutes (ms. and ts.) and working papers. J. Wesley Graham was
                   chair of this committee.

File 1111   **Problems.** - [196-].
                   Contents: ms. calculations.
                   Loose papers.

File 1112   **Program & logic for create-update of INFOR system.** - 1970.
                   Computer output, bound in 2 vols. with UW covers.

                   Subject: Computing at UW

File 1113   **Program & logic for create-update of INFOR system.** - 1970.
                   Computer output, bound in 2 vols. with UW covers.

                   Subject: Computing at UW

File 1114   **Programmer aptitude test.** - 1967.
                   Contents: scored programmer aptitude tests, copies of test booklet.
                   Restricted.
                   Added Entries: Graham, J.W. Statistical report generator.

File 1115   **Programs: not modular: PL1.** - [19--].
                   Contents: computer output.
                   Untitled folder.

File 1116   **Proportional allotment scheme.** - 1970.
                   Contents: one memorandum re computer time allotment.

File 1117   **Provincial grant.** - 1966.
             Contents: material related to computing costs for grant purposes. This is in the form of detailed charts. Includes four pages of question-and-answer about the University of Waterloo's computers and facilities and a 13 page document on computing at the University of Waterloo, emphasizing its importance in education (both photocopies).

File 1118   **Provincial Grant: model 75 financial.** - 1966-1968.
             Contents: correspondence, memoranda, ms. notes and other material re computer equipment.

File 1119   **Purchase requisitions and orders, July 1960-Dec. 1965.** - 1960-1965.

File 1120   **Purchase requisitions and orders, Jan.-Dec. 1966.** - 1966.

File 1121   **Purchase requisitions and orders, Jan. 1966-Apr. 1967.** - 1966-1967.

File 1122   **Purchase requisitions and orders: Computer Science, Jan. 1960-1967.** - 1960-1967.

File 1123   **A Report prepared for the International Business Machines Company Limited by the University of Waterloo, July 1965.** - 1965.
             Contents: "This report contains confidential information about the history and projected growth of the University of Waterloo. It was prepared to assisit the International Business machines Company in its evaluation of the University's progress and future."
             Loose report

File 1124   **A Report prepared for the International Business Machines Company Limited by the University of Waterloo, July 1965.** - 1965.
             Contents: A report by J. Wesley Graham. This file contains a ts. (photocopy) and ms. figures and notes compiled for writing the report. "This report contains confidential information about the history and projected growth of the University of Waterloo. It was prepared to assisit the International Business Machines Company in its evaluation of the University's progress and future."
             Loose report

             Subject: Uniersity of Waterloo
             Added Entries: Graham, J.W. IBM

File 1125   **Research contracts.** - 1967.
             Contents: material relating to proposal for a Waterloo Research Association, also correspondence to IBM re possible support for University of Waterloo development of TUTOR for use in secondary school computer science teaching. Includes correspondence, memoranda, notes, calculations.

File 1126   **Resignations.** - 1967-1969.
             Contents: resignation letters and memoranda.
             Restricted.

File 1127   **Roden.** - 1968.
             Contents: material relating to Robert B. Roden, Associate Director (Academic Services) of the Computing Centre. Includes correspondence, memoranda, Teleprocessing Bulletins 2 and 3, reports. Includes list of Academic Services personnel, projects and accomplishments in 1968 as well as correspondence and memoranda with academic users of the Computing centre.

File 1128   **Royal McBee Corporation.** - [1959].
             Contents: ephemera, program information.
             Loose papers.

File 1129   **SAGE.** - 1966.
             Contents: background material on SAGE (Semi-Automatic Ground Environment), NORAD, and the place of computers in air defence. Includes photographs.
             Includes photographs..
             Added Entries: Graham, J.W. Statistical report generator.

File 1130   **Salary commitments, 1966-1967.** - 1966.
             Contents: ms. charts re salary projections.
             Untitled.
             Loose papers.
             Restricted.

File 1131   **Science Council of Canada.** - 1970.
                Contents: J. Wesley Graham original notes and draft recommendation for membership on Council for Eric Manning, also promotional material for a Computer Applications and Technology Seminar, Jan. 22, 1970.

File 1132   **Simplified explanation of machine language programming, March 4, 1959.** - 1959.
                Contents: 1 ts. (9 p., copy). Probable author: Basil Myers. This copy initialled by RGS [Ralph G. Stanton].
                Loose item.

File 1133   **Slides.** - 1962.
                Contents: Correspondence, cue cards, ms. notes, transparency masters for J. Wesley Graham talk to high school students on computing.

                Subject: Computer Science Days

File 1134   **Sorting.** - [1960?].
                Contents : ms. notes re sorting, trees. Includes bibliographical references.
                Untitled folder.

File 1135   **[Sorting]: information on sorting.** - [196-].
                Contents: pasted-up photocopies of articles from Communications of the ACM 6, no. 5 (May 1963).

File 1136   **[Sorting]: information on sorting.** - 1963.
                Contents: one complete issue on sorting of Communications of the ACM 6, no. 5 (May 1963). [Association for Computing Machinery]

File 1137   **Sorting: information on sorting.** - 1968.
                Contents: bibliographical references, photocopy of a paper entitled Sorting and sort/merge systems [by ?].

File 1138   **Sorting: information on sorting: references to be looked up.** - 1968.
                Contents: bibliographical references.

File 1139   **Sorting information: P. Seaman.** - 1968.
                Contents: notes on and lists of references on sorting.

File 1140   **SPECTRE I.** - [1966?].
                Contents: mimeograph information for SPECTRE on the 1620, computer output.

File 1141   **SPECTRE machine simulation.** - [196-?].
                Contents: ms. schematics and notes by J. Wesley Graham, annotated computer output.

File 1142   **SRG-40: survey report generator / by P.H. Cress, P.H. Dirksen, April, 1965.** - 1965.
                Loose publication.
        Added Entries: Dirksen, P.H.

File 1143   **SRG: Statistical Report Generator.** - 1963-1965.
                Contents: ts. (original, 12 leaves) of Statistical Report Generator: : J.W. Graham's notes, one copy of publication SRG-40: survey report generator / by P.H. Cress, P.H. Dirksen, April, 1965, and correspondence relating to the distribution of the programmes.
        Added Entries: Graham, J.W. Statistical report generator.

File 1144   **SRG [Statistical Report Generator] 1620 write-up.** - 1962-1968.
                Contents: ts. (original, 17 leaves) and printed version of Statistical report generator / by J. Wesley Graham, Digital Computing Centre, University of Waterloo, September 1962. Includes computer output, computer cards labelled "monitor load", ms. notes, and a photocopy copy of SRG360 statistical report generator.
        Added Entries: Graham, J.W. Statistical report generator.

File 1145   **STOPS (Sixteen-Twenty Object Programme Simulator).** - 1964.
                Contents: material relating to STOPS (Sixteen-Twenty Object Programme Simulator). Includes manual: STOPS :Sixteen-Twenty Object Programme Simulator / by C. Robert Zarnke, University of Waterloo. Includes computer output and telex message.

File 1146   **SY 0114.** - 1966.
                   Contents: material relating to the MIDAS digital-analogue simulator. Includes
                   computer output, and a manual _A Guide to the MIDAS Digital-analogue siulator / [by] W.C.
                   Miller, June 1965, rev. May 1966. Waterloo: Digital Computing Centre, University of Waterloo,
                   1966.

File 1147   **System operations meetings, March 1969.** - 1969.
                   Contents: minutes of daily meetings.
                   Untitled.
                   Loose pages from a binder.

File 1148   **System operations meetings, March-Sept. 1969 [file 1 of 3].** - 1969.
                   Contents: minutes of daily meetings.

File 1149   **System operations meetings, March-Sept. 1969 [file 2 of 3].** - 1969.
                   Contents: minutes of daily meetings.

File 1150   **System operations meetings, March-Sept. 1969 [file 3 of 3].** - 1969.
                   Contents: minutes of daily meetings.

File 1151   **System operations meetings, Oct. 1969-March 1970 [file 1 of 3].** - 1969-1970.
                   Contents: minutes of daily meetings.

File 1152   **System operations meetings, Oct. 1969-March 1970 [file 2 of 3].** - 1969-1970.
                   Contents: minutes of daily meetings.

File 1153   **System operations meetings, Oct. 1969-March 1970 [file 3 of 3].** - 1969-1970.
                   Contents: minutes of daily meetings.

File 1154   **System status meetings, April-Sept. 1970 [file 1 of 3].** - 1970.
                   Contents: minutes of daily meetings.

File 1155   **System status meetings, April-Sept. 1970 [file 2 of 3].** - 1970.
                   Contents: minutes of daily meetings.

File 1156   **System status meetings, April-Sept. 1970 [file 3 of 3].** - 1970.
                   Contents: minutes of daily meetings.

File 1157   **System status meetings, Oct. 1970-April 1971 [file 1 of 3].** - 1970-1971.
                   Contents: minutes of daily meetings.

File 1158   **System status meetings, Oct. 1970-April 1971 [file 2 of 3].** - 1970-1971.
                   Contents: minutes of daily meetings.

File 1159   **System status meetings, Oct. 1970-April 1971 [file 3 of 3].** - 1970-1971.
                   Contents: minutes of daily meetings.

File 1160   **System status meetings, May-Aug. 1971 [file 1 of 2].** - 1971.
                   Contents: minutes of daily meetings.

File 1161   **System status meetings, May-Aug. 1971 [file 2 of 2].** - 1971.
                   Contents: minutes of daily meetings.

File 1162   **System status meetings, Sept.-Dec. 1971 [file 1 of 2].** - 1971.
                   Contents: minutes of daily meetings.

File 1163   **System status meetings, Sept.-Dec. 1971 [file 2 of 2].** - 1971.
                   Contents: minutes of daily meetings.

File 1164   **System status meetings, 1972 [file 1 of 5].** - 1972.
                   Contents: minutes of daily meetings.

File 1165   **System status meetings, 1972 [file 2 of 5].** - 1972.
                   Contents: minutes of daily meetings.

File 1166   **System status meetings, 1972 [file 3 of 5].** - 1972.
                   Contents: minutes of daily meetings.

File 1167   **System status meetings, 1972 [file 4 of 5].** - 1972.
                   Contents: minutes of daily meetings.

File 1168   **System status meetings, 1972 [file 5 of 5].** - 1972.
Contents: minutes of daily meetings.

File 1169   **System status meetings, Jan.-March 1973.** - 1973.
Contents: minutes of daily meetings.

File 1170   **System status meetings, April-July 1973.** - 1973.
Contents: minutes of daily meetings.

File 1171   **Systems and Procedures Dept.** - 1964-1967.
Contents: material relating to the origins and operation of the Systems & Procedures Dept. at the University of Waterloo, including proposal for establishment, memoranda, correspondence, report. Also includes a study done for the Library on automated circulation control.

File 1172   **Systems and Procedures Dept.** - 1967.
Contents: material relating to activities of the Systems and Procedures Department, analysis and proposed resolution of various problems of turnaround time, etc. Includes correspondence, memoranda, reports. Includes annotated copy of a document entitled "Review of Computing Centre criticism and the proposed "Administrative Systems Sub-Committee."
Untitled folder.

File 1173   **Systems and Procedures Dept.** - 1967.
Contents: material relating to activities of the Systems and Procedures Department from April 1966-March 1967, including analysis and proposed resolution of various problems. Includes correspondence, memoranda, reports. Includes a copy of a document from Systems and Procedures entitled "1966/67 Fund Raising Campaign" containing project information for automating aspects of the 1966 campaign.
Untitled folder.

File 1174   **Systems and Procedures : manpower and machine usage reports.** - 1966.
Contents: computer output.
Untitled folder.

File 1175   **[Systems and Procedures]: SELECT.** - 1965.
Contents: one manual relating to the Select Data Retrieval System, two pages also labelled FILEX.

File 1176   **Systems memos.** - 1968.
Contents: one memorandum with attached financial information about the status of Capital Grant WA 17A and the operational costs of the IBM /360 model 75.

File 1177   **T-Scan.** - 1970.
Contents: material about the T-Scan products: correspondence and product information.

File 1178   **Talks: introduction to computers for Dr. Petch.** - 1967-1968.
Contents: ms. drafts, printed notes, computer cards, computer output, memoranda. Includes University of Waterloo Teleprocessing bulletin numbers 1, 2 and 3, as well as a copy of Announcement of /360 WATFOR compiler, Feb. 1967 by P. Cress [et al.].

Subject: WATFOR
Added Entries: University of Waterloo. Computing Centre. Teleprocessing bulletin. Cress, P. Announcement of /360 WATFOR compiler.

File 1179   **Talks: introduction to computers for Dr. Petch.** - [1969?].
Contents: ms. notes and diagrams.
Original title: Petch lectures.

File 1180   **Task Force on Computers: final report to the President's Advisory Council, Sept. 20, 1972.** - 1972.
Loose Publication.

File 1181   **Teacher training.** - 1966.
Contents: material relating to computer training for high school teachers. Includes correspondence drafts and finals from J. Wesley Graham to Wm. Davis, Minister of Education, ms. drafts and ts. carbons by J. Wesley Graham of "Computer science teacher training programme, University of Waterloo," ms. and ts. drafts and carbons of a proposal to the Dept. of Education, "An experiment in computer science education."

File 1182 **[Teacher training]: A short course in computer programming for high school teachers, May, 1967.** - 1967.
Contents: applicant list, problem sets and other material prepared for "A short course in computer programming for high school teachers, May, 1967".

File 1183 **Technological changes and skilled manpower: electronic data processing occupations in a large insurance company.** - 1961.
Contents: one publication stamped "Received Dec. 27, 1961, Co-ordination Dept." and initialled "ASB" [Albert S. Barber]. Inserted are University of Waterloo application forms and personnel card.
Loose item.

File 1184 **Thoughts.** - [1971].
Contents: ms. notes, including topics such as financing and operation of computing at the University of Waterloo.

File 1185 **Time extension policy, Sept. 1969: failed.** - 1969.
Contents: re computer charges.

File 1186 **Time sharing.** - 1969.
Contents: course material by David E. Morgan.

File 1187 **To do: minor.** - 1970-1971.
Contents: ms. notes.

File 1188 **To do: not urgent.** - 1969-1971.
Contents: material on a number of topics. Includes ms. draft and ts. of "Suggested implementation of charge-out policy, Computing Centre, June, 1969" by J. Wesley Graham. Also includes memoranda, correspondence, ms. notes re the Computing Centre facilities, including the power plant, operational "problems", proposed organization of the department, information received re "conversational remote batch entry," and a network proposal (photocopy, annotated) from Bell telephone Laboratories marked "confidential."
Restricted.

File 1189 **University Affairs, Nov. 23, 1967.** - 1967.
Contents: material for the University of Waterloo meeting with CUA.

File 1190 **University and college computing surveys.** - 1963.
Contents: two publications: _Sixth survey of University computing facilities, July 1963_, Rochester, N.Y. : University of Rochester, 1963 and "1963 college-university computing centre survey: preliminary report," _PIP_ Newsletter 1, no. 5 (Nov. 1963): 19-31. University of Waterloo computing facilities and programs are described in each.

File 1191 **University of Toronto Computation Centre: Library programs for the IBM Tape 650 Electronic data Processing Machine, rev. Jan. 1960.** - 1960.
Contents: ts. (copy), loose.
Untitled folder.
Publication?

File 1192 **University of Toronto, Institute of Computer Science: Programmers' reference manual, v. 1, chapters 1 to 14.** - 1960.
Loose publication

File 1193 **University of Waterloo: 7040 publications: 7040 Fortran IV users guide: language specifications, operating system, library programmes / by Peter W. Shantz.** - 1965.
Contains 2 p. ms notes at end.
Publication
Added Entries: Shantz, Peter W.

File 1194 **University of Waterloo: 7040 publications: SRG-40: survey report generator / by P.H. Cress, P.H. Dirksen.** - 1965.
Publication
Added Entries: Cress, P.H. Dirksen, P.H.

File 1195 **University of Waterloo: 7040 publications: Digital analogue simulator programmes for 7040 and 1710 (MIDAS and PACTOLUS), June 1965.** - 1965.
Includes additional material.
Publication.

File 1196   **University of Waterloo: 7040 publications: SPECTRE and SPECTRE MAP: user's guide / by J.H. Vellinga, June, 1965.** - 1965.
              Publication.
          Added Entries: Vellinga, J.H.

File 1197   **University of Waterloo: 7040 publications: 7040-1401 operating procedures / S.C. Hope.** - [1965?].
              Includes additional material.
              Publication.
          Added Entries: Hope, S.C.

File 1198   **University of Waterloo: 7040 publications: IBSYS.** - [1965?].
              2 photocopies: FORTRAN IV users guide: additional error messages; Changes to IBSYS.

File 1199   **University of Waterloo: 7040 publications: Guide to using the 1311 library facilities on the 7040-1401 system / by J.F. Bolce.** - [1965?].
              Publication.
          Added Entries: Bolce, J.F.

File 1200   **University of Waterloo: 7040 publications: Use of the 7040 library master tape.** - [1965?].
              Publication.

File 1201   **University of Waterloo: 7040 publications: Notes on the use of Grenoble ALGOL for the 7040 / P.H. Dirksen, July 1965.** - 1965.
              Publication.
          Added Entries: Dirksen, P.H.

File 1202   **University of Waterloo: 7040 publications: Hybrid computation lecture series: lectures VIII and IX: operation, use, and programming of the 1710 special features / E.M. Hinchley.** - 1965.
              Includes additional material on the 1710.
              Photocopy.
          Added Entries: Hinchley, E.M.

File 1203   **University of Waterloo COM-REC system.** - 1965.
              Contents: one manual.
              Loose manual.

File 1204   **University of Waterloo Computing Centre, Summer, 1963.** - 1963.
              Contents: 6 p. University of Waterloo computer information and instructional material.
              Loose papers.

File 1205   **University of Waterloo S.P.S.** - [196-].
              Contents: 6 p. University of Waterloo computer information and instructional material.
              Loose papers.

File 1206   **University of Waterloo systems handbook, January 1971 [file 1 of 2].** - 1971.
              Contents: technical manual for the Waterloo system.

File 1207   **University of Waterloo systems handbook, January 1971 [file 2 of 2].** - 1971.
              Contents: technical manual for the Waterloo system.

File 1208   **Urwick, Currie & Partners, Management Consultants: report no. 1: survey of Computing Centre personnel policies and practices, May 21, 1970.** - 1970.
              Contents: one of a series of confidential reports on management of the Computing Centre.
              Loose report.
              Confidential reports.

File 1209   **Urwick, Currie & Partners, Management Consultants: reports [file 1 of 2].** - 1970.
              Contents: a series of confidential reports on management of the Computing Centre.
              Loose reports.
              Confidential reports.

File 1210   **Urwick, Currie & Partners, Management Consultants: reports [file 2 of 2].** - 1970.
              Contents: a series of confidential reports on management of the Computing Centre.
              Loose reports.
              Confidential reports.

File 1211   **Users Advisory Committee to the Computing Centre.** - 1969.
                Users Advisory Committee to the Computing Centre was formed to advise the
             Director of the Computing Centre on matters (technical in nature) concerning the Computing
             Centre as it affected the user.
                Contents: minutes, notes, memoranda, working papers.

File 1212   **Users manual: experimental control facility, Computing Centre, Oct. 1973.** - 1973.
                Contents: manual (computer output).

File 1213   **Volker-Craig.** - 1980.
                Contents: material re new product presentation to Industry, Trade & Commerce and
             University of Waterloo and possible funding and development of same.
                Restricted.

File 1214   **VTR.** - 1979.
                Contents: product information, receipt for video tape equipment purchased.

File 1215   **WATBOL.** - 1970.
                Contents: one memorandum re COBOL.

File 1216   **WATCHUM [Waterloo Computing in the Humanities].** - 1973.
                Contents: one letter with attachment re resignation of J. Wesley Graham from
             directorship of Computing Centre.

File 1217   **Waterloo 2741.** - 1970.
                Contents: material sent to J. Wesley Graham from J.C. Wilson re a conversational
             terminal. Includes ms. notes, report, product information.

File 1218   **WATFILE.** - [197-?].
                Contents: command summaries, ts. (computer output).

File 1219   **WATFILE.** - 1970.
                Contents: material about the development of WATFILE. Includes correspondence, ms.
             notes, coding sheets, etc.

File 1220   **WATFOR.** - 1965-1967.
                Contents: correspondence, "announcement" (publication). Includes a list of
             institutions requesting information as of 1966, design objectives and design philosophy of
             WATFOR.

                Subject: WATFOR

File 1221   **WATFOR-11s error messages.** - [197-?].
                Contents: one manual.
                Loose duo-tang.

                Subject: WATFOR

File 1222   **WATFOR: /360: correspondence.** - 1967.
                Contents: correspondence, releases, clipping.

                Subject: WATFOR

File 1223   **WATFOR: /360: special letters.** - 1967-1968.
                Contents: correspondence.

                Subject: WATFOR

File 1224   **[WATFOR]: /360 WATFOR: implementation guide / P. Cress (project director) ... [et**
                al.], April, 1967. - 1967.
                By P. Cress, P.H. Dirksen, M. Doyle, L. Kesselhut, W. Kindree, D. Meek, R. Milne, E.
             Schmidt.
                Loose publication.

                Subject: WATFOR
             Added Entries: Dirksen, P.H. Doyle, M. Kesselhut, L. Kindree, W. Meek, D. Milne, R. Schmidt, E.

File 1225 **WATFOR: 7040 version: special letters.** - 1965-1967.
Contents: correspondence.

Subject: WATFOR

File 1226 **[WATFOR]: A description of the University of Waterloo 7040/44 FORTRAN IV**
compiler, WATFOR / Peter W. Shantz, project director ... [et al.], January,
1966. - 1966.
Contents: loose University of Waterloo publication with memorandum on cover to the
effect that it would probably not sell very well and therefore would not be published.
By Peter W. Shantz, R. Angus German, James G. Mitchell, Richard S.K. Shirley,
C.Robert Zarnke.
Label pasted on t.p.: Preliminary ed.
Loose publication.

Subject: WATFOR
Added Entries: German, R.A. Mitchell, J.G. Shirley, R.S.K. Zarnke, C.R. Hope, S.C.

File 1227 **[WATFOR]: A guide to implementing WATFOR under 7040/44 IBSYS / Peter W.**
Shantz (project director) ... [et al.], September, 1965. - 1965.
By P.W. Shantz, R.A. German, J.G. Mitchell, R.K.S. Shirley, C.R. Zarnke; write-up by
S.C. Hope.
Loose publication.

Subject: WATFOR
Added Entries: German, R.A. Mitchell, J.G. Shirley, R.K.S. Zarnke, C.R. Hope, S.C.

File 1228 **[WATFOR]: A guide to implementing WATFOR under 7040/44 IBSYS / Peter W.**
Shantz (project director) ... [et al.], revised, April 1966. - 1966.
By P.W. Shantz, R.A. German, J.G. Mitchell, R.K.S. Shirley, C.R. Zarnke; write-up by
S.C. Hope.
Loose publication.

Subject: WATFOR
Added Entries: German, R.A. Mitchell, J.G. Shirley, R.K.S. Zarnke, C.R. Hope, S.C.

File 1229 **[WATFOR]: compiler writing.** - 1961-1965.
Contents: material relating to the Working Group on Writing a Fortran IV Compiler.
Includes ms. notes, problems by J. Wesley Graham, carbons and photocopies of meeting
minutes, photocopies of articles.

Subject: WATFOR

File 1230 **WATFOR conference, workshop registration, Feb. 18 and 19, 1966.** - 1966.
Contents: description of and completed registration forms for a two day conference
on WATFOR.

Subject: WATFOR

File 1231 **[WATFOR]: Description of /360 WATFOR: a FORTRAN IV compiler / P.H. Cress . . . [et**
al.], April, 1968. - 1968.
Contents: loose University of Waterloo publication.
Loose publication.

Subject: WATFOR

File 1232 **[WATFOR]: Fortran IV compilers.** - 1965.
Contents: material re WATFOR, including minutes, correspondence, hand-drawn
diagrams, memoranda.

Subject: WATFOR
Added Entries: Graham, J.W. Statistical report generator.

File 1233   **[WATFOR]: Illinois paper.** - 1970.
                   Contents: material relating to the Symposium on Compiler Optimization, July 27-28,
                   1970. Includes correspondence, ms. notes, copy of paper given by D.D. Cowan and J.W.
                   Graham "Design characteristics of the WATFOR compiler" as well as a copy of Design and
                   Implementation techniques for the /360 WATFOR compiler / by D.D. Cowan [et al.], published
                   by the University of Waterloo as Department of Applied Analysis and Computer Science
                   Research Report CSRR 2008, June 1968.

                   Subject: WATFOR

File 1234   **[WATFOR]: Introduction to WATFOR/ Peter W. Shantz (project director) ... [et al.],**
                   Aug. 1965. - 1966.
                   By P.W. Shantz, R.A. German, J.G. Mitchell, R.K.S. Shirley, C.R. Zarnke.
                   Loose publication.

                   Subject: WATFOR
                   Added Entries: Shantz, Peter W. German, R.A. Mitchell, J.G. Shirley, R.K.S. Zarnke, C.R.
                   Hope, S.C.

File 1235   **WATFOR: J.W. Graham's file.** - 1968-1979.
                   Contents: materials relating to WATFOR, including correspondence from users,
                   readers and correspondence about publication and revision of FORTRAN IV with WATFOR and
                   WATFIV.

                   Subject: WATFOR

File 1236   **[WATFOR]: PAIT [Program for Advancement of Industrial Technology] 1.** - 1966-1970.
                   Contents: contains correspondence relating to WATFOR, lists of WATFOR and other
                   software users.

                   Subject: WATFOR

File 1237   **[WATFOR]: PAIT [Program for Advancement of Industrial Technology] 2.** - 1970.
                   Contents: material relating to this Dept. of Industry, Trade and Commerce granting
                   program. Includes promotional materials, ms notes, reports, etc.

File 1238   **[WATFOR]: Report on the /360 WATFOR compiler / Paul Cress, January, 1967.** - 1967.
                   Loose publication.

                   Subject: WATFOR

File 1239   **[WATFOR]: Standard WATFOR: distributed version, master copy (file 1 of 3).** - 1972.
                   Contents: computer output.

                   Subject: WATFOR

File 1240   **[WATFOR]: Standard WATFOR: distributed version, master copy (file 2 of 3).** - 1972.
                   Contents: computer output.

                   Subject: WATFOR

File 1241   **[WATFOR]: Standard WATFOR: distributed version, master copy (file 3 of 3).** - 1972.
                   Contents: computer output.

                   Subject: WATFOR

File 1242   **Watt.** - 1970.
                   Contents: material received from R. Watt [Consulting Services?]. Includes
                   memoranda, reports on activities, published information from other institutions.

File 1243   **Welch.** - [1970?].
                   Contents: computer output re GENASYS.

File 1244   **Welch.** - 1971.
                   Contents: draft of a paper by J. Welch, with ms. notes and comments.

File 1245   **Wilson.** - 1968.
                   Contents: material to and from J.C. Wilson [Associate Director, Computing Centre].
                   Includes correspondence, memoranda, reports, etc., especially re computer usage.

File 1246   **Wilson.** - 1969.
     Contents: one memorandum from J.C. Wilson outlining Computing Centre activities during J. Wesley Graham's "absence".

File 1247   **Wilson.** - 1970.
     Contents: material to and from J.C. Wilson [Associate Director, Computing Centre]. Includes correspondence, memoranda, reports, etc.

File 1248   **Wits.** - 1970.
     Contents: material about bugs in South African Wits.

File 1249   **WITS-II reference Guide, May 1973.** - 1973.
     Publication: software manual.
    Added Entries: Dirksen, P.H.

Series 4.2 : UW: Post 1973 files

File 0   **UW: post 1973 files** - 1968-1997.
     Series consists of material relating to J. Wesley Graham's activities at the University of Waterloo as administrator and faculty member from 1973-1997, including his tenure as Dean of Computing and Communications from 1983-1988. These files document J. Wesley Graham's involvement in groups established within the University for software research, development and distribution, such as the Computer Systems Group, WATFAC and WATSOFT, and his involvement in negotiating agreements and contracts on behalf of the University with companies such as DEC and IBM. Also present are files concerning the New Oxford English Dictionary Project. Files from 1970 to 1986 document his activities as faculty member in the Dept. of Computer Science. This series includes computer output, correspondence, diagrams, ephemera, minutes, ms. notes, newsletters, proposals, publications, reports, and working papers.
     Title from content of the series.
     Restricted.

File 1250   **APL.** - 1981.
     Contents: one update from Westminster City School re introduction of APL.

File 1251   **Applications : University Research Incentive Fund.** - [198-].
     Contents: blank forms.

File 1252   **Articles on computing.** - 1984.
     Untitled.

File 1253   **Articles on computing.** - 1985-1988.
     Contents: photocopied articles.
     Untitled folder.

File 1254   **Artwork: 6805 to 6809 converter.** - [198-?].
     Contents: paper, acetates.

File 1255   **Assembler G.** - 1976.
     Contents: photocopy of a software review.

File 1256   **Australia.** - 1985.
     Contents: material relating to the hiring of visiting professor K. Dampney, partially funded by WATFAC.
     Restricted.

File 1257   **BASIC.** - 1978.
     Contents: memoranda re debugging.

File 1258   **BASIC functions, April 1976.** - 1976-1977.
     Contents: letter with attached manual for J. Wesley Graham's information.

File 1259   **BASIC project.** - 1978-1979.
     Contents: ms. notes and drafts (original and photocopies) , ts. (162 p., photocopy) with title: IBM Corporate Standard (Proposed): IBM Confidential.
     Binder.

File 1260   **BBC computer literacy project.** - 1982.
     Loose photocopies of promotional and release material.

File 1261   **BILD proposal.** - 1983.
                         Contents: draft minutes of the ICR Group Directors' Committee meeting, Feb. 4,
                 1983, re IBM PCs.
                         Untitled.
                         Loose paper.

File 1262   **Bisync Board: "user's manual".** - [1983].
                         Contents: ms. notes and diagrams, for IBM PC Bisync interface board.

File 1263   **C.R.A.C.: Computer Resources   Advisory Committee.** - 1973.
                         Contents: memoranda, minutes, background papers. J. Wesley Graham a member.

File 1264   **Canadian Industrial Innovation   Centre.** - 1982.
                         Contents: promotional material: topical file.

File 1265   **CEM [Canadian Educational   Microcomputer].** - [198-?].
                         Contents: Contains copies of "The Waterloo CEM proposal: an alternative" by D.D.
                 Cowan, J. Wesley Graham and M.A. Malcolm in response to Government specifications and RFP
                 for educational microcomputers.

File 1266   **CEM [Canadian Educational   Microcomputer] (file 1 of 2).** - 1981-1982.
                         Contents: material relating to the Waterloo CEM proposal by D.D. Cowan, J. Wesley
                 Graham and M.A. Malcolm in response to Government specifications and RFP for educational
                 microcomputers. Contains correspondence, notes, drafts of proposal, RFP, specifications,
                 published materials, memoranda, reports.

File 1267   **CEM [Canadian Educational   Microcomputer] (file 2 of 2).** - 1981-1982.
                         Contents: material relating to the Waterloo CEM proposal by D.D. Cowan, J. Wesley
                 Graham and M.A. Malcolm in response to Government specifications and RFP for educational
                 microcomputers. Contains correspondence, notes, drafts of proposal, RFP, specifications,
                 published materials, memoranda, reports.

File 1268   **Co-operative on Information Technology, University of Toronto, University of**
                         Waterloo. - 1982.
                         Contents: one letter, one newsletter.

File 1269   **Committee of Computer Users.** - 1984-1985.
                         Contents: minutes and agendas.

File 1270   **Committee of Computer Users (CCU).** - 1986.
                         Contents: minutes, agenda, memoranda.

File 1271   **Committee on Student-owned   Computers.** - 1987.
                         Contents: minutes.

File 1272   **Commodore, 1982.** - 1982.
                         Contents: correspondence, draft publicity brochure.

File 1273   **Commodore Education Advisory Board.** - 1980-1981.
                         Contents: one brochure, Commodore product information. The brochure introduces
                 the Board which includes J. Wesley Graham.
                         Untitled file.

File 1274   **Computer Career Institute.** - 1984-1985.
                         Contents: correspondence, reports.

File 1275   **Computer output.** - 1975.
                         Contents: unidentified computer output dated 1974.

File 1276   **Computer Research Centre.** - 1980.
                         Contents: memoranda re proposals for a computer research centre.
                         Untitled file.

File 1277   **Computer Research Centre Concept Committee.** - 1985.
                         Contents: minutes and agendas.

File 1278   **Computer Research Centre Concept Committee.** - 1986.
                         Contents: minutes, agendas.

File 1279   **Computer Research Centre Concept   Committee.** - 1987.
         Contents: minutes, agenda items.

File 1280   **Computer Science Days.** - 1991.
         Contents: course note booklets for workshops held during Computer Science Days:
Spreadsheets, Maple, Turing, WATFILE/Plus, Mac and Hypercard, C.
         Loose publications.

File 1281   **Computer Store.** - 1985.
         Contents: material re establishing a retail computer store on campus. Includes
correspondence, working papers.

File 1282   **Computer Systems Group.** - 1972-1973.
         Contents: drafts of history, structure and operation of CSG.

File 1283   **Computer Systems Group.** - 1982-1985.
         Contents: material relating to the Computer Systems Group: university policies,
memoranda, agreement samples, position descriptions, constitution, software ownership policy
and procedures.
         Untitled folder.

File 1284   **Computer Systems Group: annual   meetings.** - 1973-1989.
         Contents: annual and other meeting minutes of the Computer Systems Group.
         Untitled folder.

File 1285   **[Computer Systems Group]: Budget.** - 1978.
         Contents: material prepared for a budget meeting for Computing Systems Group, all
on transparencies. Includes a summary history of WATFAC, financial information for all aspects
of C.S.G. 1977-1978, including salary data.
         Restricted.

File 1286   **[Computer Systems Group]: C.S.G. meeting, Feb. 6, 1976.** - 1976.
         Contents: material prepared for a Computer Systems Group/WATFAC meeting, Feb.
6, 1976. Includes information on status and future direction of software and hardware, and
financial activities of WATFAC 1974-1976.

File 1287   **Computer Systems Group: contracts.** - 1972-1973.
         Contents: correspondence, clippings, blank contracts and agreements.

File 1288   **Computer Systems Group plan.** - 1989-1990.
         Contents: blank agreement, audit report, 1990.

File 1289   **Computer Systems Group planning.** - 1988-1990.
         Contents: material relating to role, objectives, reorganization issues, relationship with
university.

File 1290   **Computer Systems Group reorganization.** - 1993.
         Contents: material relating to a proposed reorganization of the Computing Systems
Group, including documents by J. Wesley Graham marked "confidential".
         Untitled.
         Loose papers.
         Confidential material.

File 1291   **Computer Systems Group restructuring.** - 1993.
         Contents: history, reports, working papers.

File 1292   **Computer Systems Group review.** - 1990-1991.
         Contents: material relating to a proposed reorganization of the Computing Systems
group, including a memorandum from J. Wesley Graham detailing his involvement, draft
review documents, correspondence.

File 1293   **Computer Usage Committee, 1974:   committees and councils file.** - 1974.
         Contents: memoranda, agendas, minutes. J. Wesley Graham a member.

File 1294   **Computer Usage Committee: current.** - 1975-1976.
         Contents: memoranda, agendas, minutes. J. Wesley Graham a member.

File 1295   **Computers in Education Committee.** - 1985.
         Contents: minutes and agendas.

File 1296   **Computers in Education Committee.** - 1986.
                 Contents: minutes.

File 1297   **Computing and education [file 1 of   2].** - 1987-1988.
                 Contents: proposals and reports received by J. Wesley Graham on computers and the
        secondary school, including a proposal for The Centre for the Study of Computers in Education.
                 Untitled.
                 Loose publications.

File 1298   **Computing and education [file 2 of   2].** - 1987-1988.
                 Contents: proposals and reports received by J. Wesley Graham on computers and the
        secondary school, including a proposal for The Centre for the Study of Computers in Education.
                 Untitled.
                 Loose publications.

File 1299   **Computing information.** - 1984-1987.
                 Contents: material for University of Waterloo "Factsheets".

File 1300   **Copyright.** - 1985.
                 Contents: "Submission by Canadian Business Equipment Manufacturers Association on
        copyright law, January 1985."

File 1301   **Copyright.** - 1985-1986.
                 Contents: correspondence, clippings, submissions, papers, notes. RE copyright
        protection of software programs. Includes University of Waterloo submission.

File 1302   **[Copyright]: A Charter of Rights for Creators: Report of the Sub-Committee on the**
                 Revision of Copyright: Standing Committee on Communications and Culture:
                 Gabriel Fontaine, M.P. Chairperson. - 1985.
                 Loose publication.

File 1303   **Copyright file.** - 1986.
                 Contents: spiral-bound document: :"Copyright: computer programs and antipiracy
        measures: legislative background material," with insertions.
                 Loose material.

File 1304   **Correspondence** - 1979-1980.
                 Contents: general correspondence to and from J. Wesley Graham. Topics include the
        Commodore PET for educational use, memorandum on micro computers, a teaching
        evaluation, a report for Bell Canada, a presentation from Volker-Craig.

File 1305   **CS 100.** - 1986.
                 Contents: memorandum re public MacIntosh Facility.

File 1306   **CS micro-processor lab.** - [198-].
                 Contents: proposal by F. Mavaddat , for new direction and equipment for
        microcomputer laboratory activities.
                 Untitled folder.

File 1307   **CSG 4300.** - 1981.
                 Contents: information re upgrade. Includes ms. notes, computer output.

File 1308   **Curriculum Committee: Wilfrid   Laurier University.** - 1973.
                 Contents: memoranda re courses for WLU.

File 1309   **Cyberware.** - 1979.
                 Contents: one letter re use of computing facility.
                 Restricted.

File 1310   **Data bases.** - 1983-1985.
                 Contents: material relating to the hiring of visiting professor C.N.G. (Kit) Dampney.
        Includes c.v., offprints and reprints of articles by him and his colleague L.I. Brady on databases.
                 Restricted.

File 1311   **Data processing.** - 1984-1985.
                 Contents: material re Data Processing budget.

File 1312   **Data Processing Department, University of Waterloo.** - 1983-1984.
                 Contents: material relating to organization and operation of the Data Processing
        department. Includes reports, summaries, memoranda.
                 Loose papers.

File 1313   **Davis Building: office space.** - 1987.
                        Contents: memoranda.

File 1314   **Davis Centre: move.** - 1988.
                        Contents: memoranda re scheduling of move of offices and equipment into Davis
             Centre.

File 1315   **DCS [Department of Computing   Services].** - 1985.
                        Contents: material re budget and need.

File 1316   **DCS [Dept. of Computing Services].** - 1985-1986.
                        Contents: memoranda, ms. notes, etc. re budgeting, services.

File 1317   **DCS [Dept. of Computing Services].** - 1987-1988.
                        Contents: material re computing budget allocations.

File 1318   **DCS foils.** - 1987.
                        Contents: minutes of the University of Waterloo Management Board marked
             "confidential", J. Wesley Graham draft report (ms. notes, ts. photocopy): "Some comments
             concerning establishing policy and control of usage of computing at the University of
             Waterloo," also marked "confidential". Includes transparencies and paper copies of a
             presentation, "Computing at Waterloo: some future directions."
                        Confidential.

File 1319   **DCS marketing.** - 1987.
                        Contents: ms notes (photocopies).

File 1320   **DEC.** - 1979.
                        Contents: one issue of EDU magazine announcing Waterloo's PDP 11/34, one copy of
             DEC's "Waterloo sales reference manual", developed from material supplied by the University
             of Waterloo.
                        Untitled loose papers.

File 1321   **DEC.** - 1984-1986.
                        Contents: correspondence, proposal, ms. notes.

File 1322   **DEC.** - 1985.
                        Contents: correspondence, memoranda, reports, ms. notes.

File 1323   **DEC Canada Ltd.** - 1983-1984.
                        Contents: material relating to the DEC/Waterloo Joint Research Project. Includes
             correspondence, memoranda, ms. notes, agreement draft,proposal meetings, publicity.
                        Some material marked "confidential" and "private".

File 1324   **DEC contracts.** - 1979.
                        Contents: one letter.

File 1325   **DEC correspondence: D.E.C. file.** - 1974-1979.
                        Contents: correspondence, ms. notes, ephemera.

File 1326   **[DEC]: Digital Equipment Corporation: VAX 8500.** - 1986.
                        Contents: one binder of product brochures and information, photocopied and original,
             belonging to Shirley Fenton?
                        Untitled.
                        Loose papers, originally in a binder.

File 1327   **DEC. manuals: D.E.C. file.** - 1974-1978.
                        Contents: printed materials.

File 1328   **[DEC]: PDP: 11/45.** - [197-?].
                        Contents: photocopied lists of equipment and values DEC.

File 1329   **DEC: project status reports and DEC news.** - 1984.
                        Contents: issues of WATDEC project status reports, WATDEC news.
                        Loose binder.

File 1330   **DEC proposal.** - 1983-1984.
                        Contents: proposals from academic areas for computer use.

File 1331   **DEC proposal master, status reports,   proposal summary report.** - 1984.
                 Contents: DEC proposals summary reports.

File 1332   **[DEC]: Proposal to Digital Equipment   Corporation for a joint research program in
                 open computing using fourth   generation systems: February 1, 1984** - 1984.
                 Publication

File 1333   **DEC proposal to PAC [President's   Advisory Council]: September 14, 1983.** - 1983-
                 1984.
                 Contents: copies of proposal, J. Wesley Graham presentation notes and masters.

File 1334   **[DEC]: University of Waterloo-DEC   joint research project: presentation January 23,
                 1984.** - [198-?].
                 Contents: overhead transparencies.
                 Untitled folder.

File 1335   **[DEC]: University of Waterloo-DEC   joint research project: presentation January 23,
                 1984.** - 1984.
                 Contents: paper masters for overhead transparencies.

File 1336   **DEC/UW project.** - 1984-1985.
                 Contents: proposal summary reports, minutes (ms. and ts.) of meetings.
                 Loose binder.

File 1337   **DEC-UW Project Management Committee.** - 1984.
                 Contents: minutes.

File 1338   **DEC/UW proposals: approved Jan. 1985,   level I.** - 1985.
                 *Contents: approved research proposals from all faculties for DEC/Waterloo Joint
                 Research Project.*
                 Loose binder.

File 1339   **DEC/UW proposals: approved June 1984,   level I [file 1 of 2].** - 1984.
                 *Contents: approved research proposals from all faculties for DEC/Waterloo Joint
                 Research Project.*
                 Loose binder.

File 1340   **DEC/UW proposals: approved June 1984,   level I [file 2 of 2].** - 1984.
                 *Contents: approved research proposals from all faculties for DEC/Waterloo Joint
                 Research Project.*
                 Loose binder.

File 1341   **DEC/UW proposals: approved Oct. 24,   1984, level II.** - 1984.
                 *Contents: approved research proposals from all faculties for DEC/Waterloo Joint
                 Research Project.*
                 Loose binder.

File 1342   **DEC/UW proposals: approved Oct. 1984,   level I.** - 1984.
                 *Contents: approved research proposals from all faculties for DEC/Waterloo Joint
                 Research Project.*
                 Loose binder.

File 1343   **DEC/UW proposals: approved Sept. 19,   1984, level 1 [file 1 of 2].** - 1984.
                 *Contents: approved research proposals from all faculties for DEC/Waterloo Joint
                 Research Project.*
                 Loose binder.

File 1344   **DEC/UW proposals: approved Sept. 19,   1984, level 1 [file 2 of 2].** - 1984.
                 *Contents: approved research proposals from all faculties for DEC/Waterloo Joint
                 Research Project.*
                 Loose binder.

File 1345   **DEC/UW proposals: Engineering, June   1984 [file 1 of 3].** - 1984.
                 Contents: research proposals from Engineering for DEC/Waterloo Joint Research Project
                 Loose binder.

File 1346   **DEC/UW proposals: Engineering, June   1984 [file 2 of 3].** - 1984.
                 Contents: research proposals from Engineering for DEC/Waterloo Joint Research Project
                 Loose binder.

File 1347   **DEC/UW proposals: Engineering, June 1984 [file 3 of 3].** - 1984.
Contents: research proposals from Engineering for DEC/Waterloo Joint Research Project
Loose binder.

File 1348   **DEC/UW proposals: withdrawn.** - 1983-1985.
Contents: primarily loose research proposals from Engineering for DEC/Waterloo Joint Research Project which were withdrawn. Includes memoranda and other Project Management Committee materials.
Untitled.
Loose papers.

File 1349   **Decision tables.** - 1976.
Contents: memoranda, overhead transparencies and paper copies for a seminar on decision table processing presented by a visitor from Statistics Canada.

File 1350   **Dept. of Computer Science.** - 1981.
Contents: J. Wesley Graham's file of material relating to the Department. Includes information on CS 250 and on departmental recruiting.
Includes confidential information.

File 1351   **Dept. of Computer Science: Comprehensive Exam Committee: miscellaneous committees and councils.** - 1975.
Contents: memoranda, material re Ph.D. comprehensive examinations in computer science.

File 1352   **Dept. of Computer Science: Comprehensive Examination Committee.** - 1982.
Contents: memoranda, J. Wesley Graham material for Ph.D. comprehensive examinations in computer science. Includes ms. and ts. examination questions and a photocopy of the examination.

File 1353   **Dept. of Computer Science: Computer Science Advisory Committee.** - 1970-1980.
Contents: memoranda, minutes, "confidential". This committee was started in 1970.
Confidential material.

File 1354   **Dept. of Computer Science Curriculum Committee.** - 1974-1977.
Contents: minutes, agendas, working papers, memoranda. Alan George's file (Chair).
Untitled
Loose papers

File 1355   **Dept. of Computer Science Curriculum Committee.** - 1978-1979.
Contents: minutes, memoranda, background materials.

File 1356   **Dept. of Computer Science Curriculum Committee.** - 1978-1980.
Contents: minutes, agenda item documents. J. Wesley Graham Chairman of Computer Science Curriculum Committee at this time.

File 1357   **Dept. of Computer Science Curriculum Committee: Engineering proposals.** - 1979-1980.
Contents: minutes, memoranda, background materials.

File 1358   **Dept. of Computer Science Curriculum Committee meeting.** - 1978-1979.
Contents: minutes, memoranda, background materials.

File 1359   **Dept. of Computer Science: department meetings: minutes.** - 1986-1993.
Contents: minutes.
Loose papers.

File 1360   **Dept. of Computer Science: departmental meetings.** - 1973-1976.
Contents: minutes, background papers.

File 1361   **Dept. of Computer Science: Departmental Promotions Committee.** - 1973-1976.
Restricted.

File 1362   **Dept. of Computer Science: Dept. meeting Apr. 23, 1981.** - 1981.
Contents: agenda and supporting document for a new program in Information Systems. Includes Computer Science undergraduate handbook for 1981/1982.

File 1363   **Dept. of Computer Science: Gillett, David.** - 1980.
Contents: material relating to student petition; J. Wesley Graham in position of Assoc. Chairman for Undergraduate Studies.
Untitled file.

File 1364   **Dept. of Computer Science: Graduate Committee, committees and councils file.** - 1973-1976.
Contents: agendas, memoranda.

File 1365   **Dept. of Computer Science: Honeywell.** - 1975-1977.
Contents: memoranda re usage, printout by J. Wesley Graham.

File 1366   **Dept. of Computer Science: Miscellaneous.** - 1975-1979.
Contents: minutes of the Computer Science Dept, memoranda.

File 1367   **Dept. of Computer Science: Ph.D. comprehensive exam.** - 1979.
Contents: J. Wesley Graham material for Ph.D. comprehensive examinations in computer science. Includes ms. and ts. examination, photocopies of take home assignments and drafts. of the examination.

File 1368   **Dept. of Computer Science: Sub-Committee on Non-Specialist Courses, including CS 230, CS 231, CS 435, CS 446, CS 448, CS 482.** - 1988-1990.
Contents: minutes, ms. notes.
Loose papers.

File 1369   **Dept. of Computer Science: Terminals.** - 1974-1977.
Contents: material re Math Faculty terminal use.

File 1370   **Diagram masters.** - [198-?].
Contents: blank diagrams.

File 1371   **Dial-up demonstration guide.** - [198-?].
Contents: one manual.
Loose manual.

File 1372   **Disk data.** - 1993.
Contents: work file containing printouts of material on a number of topics including conflict of interest, B.F. Goodrich building, Waterloo Hypertext Enterprises. Includes draft memoranda, correspondence, job descriptions.

File 1373   **Distinguished Teacher Award Committee.** - 1985.
Contents: minutes, marked "Confidential", ms. notes.
Minutes marked "Confidential."

File 1374   **Doug [Wright] retirement.** - 1992.
Contents: material relating to the retirement event for D.T. Wright.

File 1375   **Eric Mackie: Instruction set summary booklets.** - [197-].
Contents: items belonging to Eric Mackie.

File 1376   **Evolution of programming.** - [199-?].
Contents: paper copies of transparencies ("slides"), by "Rob".

File 1377   **Executive Council.** - 1987-1988.
Contents: minutes, agendas, supporting documents. Wes Graham on this committee.
Minutes marked "Confidential."

File 1378   **Faculty of Mathematics Council current: committees and councils file.** - 1975-1979.
Contents: minutes.

File 1379   **Far East trip, 1985.** - 1985.
Contents: WATCOM news release, memoranda re 1985 trip by Eric Mackie and J.W.G.
Loose papers.

File 1380   **FORTRAN problems.** - 1968-1974.
Contents: correspondence, problem sets and tests for Math 132, and a 196 page document: "Computer science problems for assistance to teachers of the experimental program in computer science" compiled by Wes Graham for the Computer Science Study Committee of the Dept. of Education for Ontario.

File 1381   **FORTRAN 1977.** - [1977].
Contents: one summary of changes to the ANSI FORTRAN standard.

File 1382   **Gandalf.** - 1982.
                 Contents: loose photocopies: information on the Gandalf LDS260 Synchronous Local
         Data Set.
                 Loose item.

File 1383   **Generating guides for UNIVAC OS/3.** - 1973-1976.
                 Contents: ms. notes, material from UNIVAC, computer printout with not: "OS/3
         modifications to WATFIV".
         Added Entries: Cress, P.H.

File 1384   **Graphic Services.** - 1988.
                 Contents: memoranda re computer-generated slides.

File 1385   **Hewlett Packard.** - 1985.
                 Contents: confidential memoranda.
                 Contains confidential information.

File 1386   **Hewlett-Packard Research Partnerships proposal.** - 1982.
                 Contents: one copy of the proposal to Hewlett-Packard from the Dept. of Computer
         Science.

File 1387   **Historical.** - 1978.
                 Contents: ms. notes; appears to be a "to do" file.

File 1388   **Historical documents.** - 1977-1982.
                 Contents: material re WATFIV-S, WATSOFT, WATFAC agreements.

File 1389   **Historical documents.** - 1984.
                 Contents: material re 1984: University of Waterloo, WATCOM, WATSOFT, WATFAC
         agreements.

File 1390   **HKLS.** - 1985.
                 Contents: one proposal for expanding HKLS microcomputer lab.

File 1391   **Hodson.** - [1989?].
                 Contents: "A new approach to computer design," by Bernard A. Hodson: ts.
         (computer output, photocopy).

File 1392   **Hong Kong.** - 1978-1979.
                 Contents: travel information.

File 1393   **Hong Kong.** - 1986.
                 Contents: material relating to the model classroom project using JANET. Includes
         correspondence, ephemera, ms. notes re travel arrangements.

File 1394   **Hypercard.** - 1987-1988.
                 Contents: information file. Includes software review.

File 1395   **HyperTalk: the HyperCard language.** - 1987.
                 Contents: manual printed on computer printout, loose, pages numbered by hand.
                 Untitled folder.
         Added Entries: Dirksen, P.H.

File 1396   **HYPO [machine language].** - [197-?].
                 Contents: photocopied handout on HYPO, the machine language of a hypothetical
         machine.

File 1397   **IBM Accounting Group proposal.** - 1984-1985.
                 Contents: material relating to a proposal to IBM for support for the Accounting Group
         teaching facilities. Includes correspondence, proposal, ms. notes, articles.

File 1398   **IBM agreement.** - 1982.
                 Contents: agreement drafts re WATSOFT rendering services to IBM National Accounts
         Division.

File 1399   **IBM agreement, July 28, 1982.** - 1982.
                 Untitled.
                 Loose papers.

File 1400   **IBM contract.** - 1977-1984.
                        Contents: correspondence, memoranda, draft and blank agreements.

File 1401   **IBM contract.** - 1982-1983.
                        Contents: draft agreements (photocopies)

File 1402   **IBM film.** - [198-?].
                        Contents: masters for overhead transparencies for [WSL?] presentation.

File 1403   **IBM-GSD agreement.** - 1981.
                        Contents: blank agreement, one letter re Commodore.

File 1404   **IBM Joint Study.** - 1988.
                        Contents: material relating to a joint study on future computing environments for
                education. Includes proposal, executive summary.

File 1405   **[IBM] May 1983.** - 1983.
                        Contents: paper masters of overhead transparencies for presentation of IBM PC
                project.

File 1406   **IBM PC 50KB serial interface: background data: SDLC (IBM Intel), Modem (Gandalf),**
                        Bisync (IBM). - 1983.
                        Contents: ms. notes, photocopies from manuals and promotional materials.

File 1407   **IBM PC serial interface, 50kb: research report.** - [198-].
                        Contents: ms. notes, computer output re high speed link to IBM mainframe for JANET.

File 1408   **IBM PC serial interface: board level products.** - 1983.
                        Contents: ms. notes, promotional materials.

File 1409   **IBM PCs.** - 1983.
                        Contents: two documents concerning IBM PCs: disposition of IBM equipment and
                NABU microcomputers, alternatives to VM/CMS.
                        Untitled.
                        Loose papers.

File 1410   **IBM Series 1: Debugging Aid.** - 1978.
                        Contents: IBM/University of Waterloo brochure.
                        Publication.

File 1411   **IBM Series 1: Multileaving Remote Job Entry System.** - 1978.
                        Contents: IBM/University of Waterloo brochure.
                        Publication.

File 1412   **IBM Series 1: Waterloo Interactive Direct Job Entry Terminal System.** - 1978.
                        Contents: IBM/University of Waterloo brochure.
                        Publication.

File 1413   **IBM Series/1: Waterloo Virtual BASIC.** - 1980.
                        Contents: loose manuals produced by IBM, also personal jokes by J. Wesley Graham
                about Series 1.
                        Untitled.
                        Loose publications and papers.

File 1414   **[IBM]: Slides: presentation.** - 1983.
                        Contents:paper masters and overhead transparencies for presentation of IBM PC
                project. Includes information on SCS (investment and management company)
                        Untitled folder.

File 1415   **IBM/UW Advisory Committee for the Collaborative Program** - 1986.
                        Contents: minutes, reports, publicity.

File 1416   **[IBM]: UW- IBM Academic Information Systems joint study agreement.** - 1988.
                        Contents: agreement.

File 1417   **IBM UW partnership.** - 1985.
                        Contents: material relating to the IBM/University of Waterloo Advisory Committee for
                the Collaborative Program. Incl;udes correspondence, memorandum, minutes. J. Wesley
                Graham a member.

File 1418   **ICON.** - 1986.
           Contents: promotional material for an educational computer.

File 1419   **ICR [Institute for Computer Research].** - 1984-1985.
           Contents: material relating to ICR corporate partners. Includes draft policy, memoranda, budget information.

File 1420   **ICR: NSERC infrastructure application.** - 1982.
           Contents: draft application.

File 1421   **Library** - 1986.
           Contents: correspondence, clippings (photocopies).

File 1422   **Math contest.** - 1985.
           Contents: published information about the Canadian Mathematic Competition.
     Information file

File 1423   **Math Faculty Curriculum Committee, Sept. 1977.** - 1977.
           Contents: minutes, agendas, working papers, memoranda.

File 1424   **Mathematics computer.** - 1974.
           Contents: material relating to use of computing facililites by the Faculty of Mathematics.

File 1425   **Mechanical Engineering.** - 1986.
           Contents: report of the Computer Task Force on Undergraduate Computing in Mechanical Engineering.

File 1426   **MFCF [Math Faculty Computing Facility] Ada compiler list.** - 1981-1982.
           Contents: one list of ADA compilers.

File 1427   **Ministry of Industry and Trade: Advisory Committee CAD/CAM centre.** - 1981-1982.
           Contents: news releases.

File 1428   **MONECS manuals.** - [197-?].
           Contents: three manuals from Monash University Computing centre for their mini-computer based system MONECS: for BASIC, COBOL and FORTRAN.
           Loose items.

File 1429   **Networks for education at the University of Waterloo.** - [198-?].
           Contents: paper copies of transparencies (slides). Includes info on Waterloo JANET.
           Loose papers.

File 1430   **NOED.** - 1987-1988.
           Contents: material relating to the New Oxford English Dictionary project. Includes correspondence, proposals, agreements, newsletters, minutes, ms. notes.

File 1431   **NOED.** - 1989.
           Contents: material re the New Oxford English Dictionary project. Includes correspondence, reports copied to J. Wesley Graham from D.T. Wright.

File 1432   **[NOED]: England: Oxford, Nov. 8-14, 1993.** - 1993.
           Contents: material relating to a trip to England re the Oxford English Dictionary Project, and book collection on computing. Includes memorandum and excpense statement.

File 1433   **NOED [file 1 of 2].** - 1985.
           Contents: material relating to the New OED Executive Committee. Includes minutes, agendas, supporting documents, correspondence, reports on activities and information items. J. Wesley Graham was a member.

File 1434   **NOED [file 2 of 2].** - 1985.
           Contents: material relating to the New OED Executive Committee. Includes minutes, agendas, supporting documents, correspondence, reports on activities and information items. J. Wesley Graham was a member.

File 1435   **NOED [file 1 of 3].** - 1987.
           Contents: correspondence, memoranda, minutes, etc. re New Oxford English Dictionary Project.

File 1436   **NOED [file 2 of 3].** - 1987.
                   Contents: correspondence, memoranda, minutes, etc. re New Oxford English
          Dictionary Project.

File 1437   **NOED [file 3 of 3].** - 1986-1987.
                   Contents: agreements, correspondence, memoranda, etc. re New Oxford English
          Dictionary Project.

File 1438   **NOED: heads of agreement.** - 1985-1986.
                   Contents: correspondence, memoranda, ms. notes, publications, reports, NOED
          newsletters.

File 1439   **NOED: heads of agreement.** - 1986.
                   Contents: agreement.

File 1440   **NOED in England, Sept. 1989.** - 1989.
                   Contents: material relating to meetings held at Oxford University re the Oxford
          English Dictionary Project. Includes correspondence, ephemera, ms. notes re travel
          arrangements, background information on the project. Includes draft of an article, "WATCOM:
          a decade of achievement," by Dave Boswell (ts., fax).

File 1441   **NOED: newsletters.** - 1984-1985.
                   Publications.

File 1442   **[NOED]: Oxford Dictionary.** - 1982.
                   Contents: photocopies of correspondence received by D.T. Wright.

File 1443   **[NOED]: Oxford Dictionary [File 1 of 3].** - 1983-1984.
                   Contents: material relating to the New Oxford English Dictionary project. Includes
          correspondence, memoranda. J. Wesley Graham ms. notes, minutes of committees, reports,
          news items, ephemera.

File 1444   **[NOED]: Oxford Dictionary [File 2 of 3].** - 1983-1984.
                   Contents: material relating to the New Oxford English Dictionary project. Includes
          correspondence, memoranda. J. Wesley Graham ms. notes, minutes of committees, reports,
          news items, ephemera.

File 1445   **[NOED]: Oxford Dictionary [File 3 of 3].** - 1983-1984.
                   Contents: material relating to the New Oxford English Dictionary project. Includes
          correspondence, memoranda. J. Wesley Graham ms. notes, minutes of committees, reports,
          news items, ephemera.

File 1446   **[NOED]: Oxford English Dictionary.** - 1984.
                   Contents: photocopies of correspondence, news items, agreement.

File 1447   **NSERC.** - 1983.
                   Contents: J. Wesley Graham grantee's statement of expenditures.
                   Untitled.
                   Loose paper.

File 1448   **Online room booking system proposal / [by] Martha Dolan, December 1983.** - 1983.
                   Loose publication.

File 1449   **Ontario Ministry of Education: technical.** - 1985-1987.
                   Contents: reports, documents re software development for educational
          microcomputer use.

File 1450   **Pan Matrix [Informatics, Inc].** - 1985.
                   Contents: notice of annual meeting, financial statements.

File 1451   **Papers: miscellaneous: presentations, papers.** - 1975-1976.
                   Contents: material relating to papers and presentations by J. Wesley Graham and
          others. Includes a bibliography of publications to July 1976.

File 1452   **PC Apprentice.** - [1984?].
                   Contents: promotional material from IBM. Information file.

File 1453   **PET hardware.** - 1980.
                 Contents: photocopy of instructions for establishing serial RS 232 communication with
           a Commodore PET.
                 Untitled folder.

File 1454   **PET WAT BASIC file.** - [19--?].
                 Contents: one sheet of ms. cost calculations.
                 Untitled folder.

File 1455   **Pilkington Glass.** - [197-?].
                 Contents: pasted up masters for WATBOL transparencies.
                 Restricted.

File 1456   **Piracy.** - 1981.
                 Contents: information file.

File 1457   **Plans, Oct. 77.** - 1977.
                 Contents: transparencies with ms. notes for computing centre plans, projects,
           schedules.

File 1458   **PLUS programming language.** - 1978.
                 Contents: correspondence and software manual received as information.

File 1459   **PORT: M.A. Malcolm.** - 1981.
                 Contents: material re PORT software. Includes license fees, computer output manual.

File 1460   **PORT: User's guide.** - 1983.
                 Contents: photocopy of Waterloo PORT user's guide / edited by Michael Malcolm,
           Phyllis Didur, January 1983.
                 Publication

File 1461   **Portability issues in compiler design / Jack Schueler, WATCOM Systems Inc.** - [1990].
                 Contents: paper copies of transparencies ("slides").

File 1462   **Printshop.** - 1985.
                 Contents: one ms. note.

File 1463   **Project Aries.** - 1988.
                 Contents: material relating to Project Aries committee. Includes correspondence,
           articles, minutes and proposals submitted re protable computer support.

File 1464   **[Project] Aries Executive Committee.** - 1987.
                 Contents: memoranda, proposals, reports, clippings, minutes, etc. re Project Aries
           Portable Computing Project.

File 1465   **Proteo Technology Corporation.** - 1987.
                 Contents: prospectus. Information file.

File 1466   **Purchase of microcomputers for teaching.** - 1980.
                 Contents: 1 memorandum, ms. notes.
                 Untitled folder.

File 1467   **R&D tax incentives for software development.** - 1985-1986.
                 Contents: correspondence, seminar notes.

File 1468   **Regional Centre.** - 1981.
                 Contents: ms. notes re regional computing centre.

File 1469   **Registration project status presentation Spring 1984.** - 1984.
                 Loose publication.

File 1470   **Rene Descartes Foundation.** - 1974-1982.
                 Contents: minutes, correspondence. J. Wesley Graham was a director.

File 1471   **Rene Descartes Foundation.** - 1985.
                 Contents: minutes, ephemera. J. Wesley Graham was a director.

File 1472   **Rene Descartes Foundation.** - 1986.
                 Contents: correspondence, memoranda, minutes.

File 1473   **Rene Descartes Foundation.** - 1986.
                     Contents: 1 memorandum.

File 1474   **Rene Descartes Foundation.** - 1987.
                     Contents: memoranda, minutes, agenda for Rene Descartes Foundation.

File 1475   **Report on the funding of computing and information science in Canada [by] NSERC
                     Grant Selection Committee, Computing and Information Science, April 1980.** -
                     1980.
                     Loose report.

File 1476   **Review of administrative computing at the University of Waterloo, Draft Report, Nov.
                     22, 1990.** - 1990.
                     Report, loose.

File 1477   **Senate Graduate Council: committees and councils file.** - 1974-1976.
                     Contents: minutes

File 1478   **Senate Long Range Planning Sub-Committee on Computing and Communications.** -
                     1985-1986..
                     Contents: minutes, report.

File 1479   **Slides.** - [198-?].
                     *Contents: overhead transparencies for a University of Waterloo presentation on
                 topics: University of Waterloo, Educational computing, delivery systems, network of PCs.*
                     Untitled folder.

File 1480   **Slides.** - [198-?].
                     Overhead transparencies.
                     Untitled folder.

File 1481   **Software development.** - 1982-1983.
                     *Contents: confidential report from Waterloo Microsystems Inc.: preliminary business
                 plan, Nov. 1982, a document from Advanced Software Research, Inc.: corporate description
                 (preliminary), on whose advisory board J. Wesley Graham was to sit, a WATCOM draft
                 development agreement outline for CEMCORP, documents re financial affairs of WATSOFT and
                 SCS.*
                     Untitled.
                     Loose papers.
                     Some material confidential.

File 1482   **Software development agreement: between University of Waterloo and Charles
                     Babbage Research Centre.** - 1973-1975.
                     Contents: agreement copy, cheque requisitions.

File 1483   **Software study: Government of Canada Information Processing and Technology
                     Division.** - 1982.
                     *Contents: material relating to a study conducted under the supervision of J. Wesley
                 Graham and Don Cowan, "Study of the package software industry in Canada". Includes
                 correspondence, J. Wesley Graham ms. notes, description of study, etc.*

File 1484   **SP/k.** - 1973-1976.
                     *Contents: materials related to software developed at the University of Toronto for
                 teaching computer programming. Contains correspondence, promotional material, technical
                 report and computer output.*

File 1485   **Sperry-UNIVAC.** - 1975-1976.
                     Contents: correspondence, agreements.

File 1486   **Strategy Board.** - 1974-1977.
                     Contents: minutes, memoranda.

File 1487   **Structured Computing Systems Ltd.: accounts payable.** - 1979.
                     Untitled folder.

File 1488   **Structured Computing Systems Ltd.: annual meeting June 22, 1977.** - 1977.
                     *Structured Computing Sysdtems Ltd. (SCS) was a company "specializing in education
                 and applications in the area of modern programming technology and computer system
                 design." Don Cowan and Wes Graham gave workshops and seminars on programming under
                 this company name.*
                     Contents: J. Wesley Graham ms. lists of workshops given, financial statements.

File 1489   **Structured Computing Systems Ltd., WATFAC.** - 1979.
                Contents: material about business activities of WATFAC Publications LTD. and financial
                statements for Structured Computing Systems Ltd. Includes statistics on book sales 1974-
                1979, customer information, financial statements, etc.
                        Untitled.
                        Loose binder.

File 1490   **Student computer fees.** - 1985-1986.
                        Contents: clippings, correspondence, releases.

File 1491   **[Student lap portable project]: copy of slides: talk: student lap portable project, April**
                        1985. - 1985.
                        Contents: material re the University of Waterloo Student Lap Portable Project.
                Includes paper masters for overhewad transparencies.

File 1492   **[Student lap portable project]: draft copies sent to Executive Council: student lap**
                        portable project, April 1985. - 1985.
                        Contents: material re the University of Waterloo Student Lap Portable Project.
                Includes draft proposal by D.D. Cowan, S. Fenton, J. Wesley Graham.

File 1493   **Student lap portable project (file 1 of 3).** - 1985-1986.
                        Contents: material re the University of Waterloo Student Lap Portable Project.
                Includes clippings, correspondence, articles, ms. notes, drafts, memoranda, reports. Alternate
                title: the University of Waterloo Personal Computer Project.
                        Untitled loose papers.
                        Material marked "confidential".

File 1494   **Student lap portable project (file 2 of 3).** - 1985-1986.
                        Untitled loose papers.

File 1495   **Student lap portable project (file 3 of 3).** - 1985-1986.
                        Untitled loose papers.

File 1496   **[Student lap portable project]: letter to Gissing: final proposal: the lap portable**
                        project, April 23, 1985. - 1985.
                        Contents: material re the University of Waterloo Student Lap Portable Project.
                Includes letter to Hewlett Packard, proposal by D.D. Cowan, S. Fenton, J. Wesley Graham.

File 1497   **[Sun Microsystems]: initial contract.** - 1986.

File 1498   **Supercomputer.** - 1986.
                        Contents: photocopied ms. notes, correspondence, memoranda, clipping re University
                of Toronto Supercomputer.

File 1499   **Supercomputers.** - 1985.
                        Contents: material relating to University of Toronto proposal to develop a
                supercomputer for all Ontario universities. Includes correspondence, responses, alternate
                proiposals, and information on University of Waterloo computing fees.
                        Some material marked "Confidential".

File 1500   **SuperPET.** - [198-?].
                        Contents: material related to the Commodore SuperPet. Includes transparencies,
                some annotated, and a publication: The Commodore SuperPET Computer: machine and
                assembly language for the Motorola 6809 / by D.D. Cowan. Waterloo, Ont. : The Author, [198-].
                        Untitled folder.

File 1501   **SuperPET.** - 1982-1983.
                        Contents: newsletters, articles and reviews re Commodore SuperPet.

File 1502   **SuperPET: hardware: slides, overview, Dec. 6, 1981.** - 1981-1982.
                        Contents: material related to a presentation by J. Wesley Graham on micro
                computers at the University of Waterloo, to be given at a conference in South Africa. Includes
                correspondence, ms. notes, transparencies and working papers.

File 1503   **Sybase: Ian [McPhee].** - 1997.
                        Contents topical file containing news clippings, releases about Sybase, WATCOM and
                donations to the University of Waterloo.

File 1504   **Technology in Education Committee.** - 1987.
                        Contents: minutes and agendas.

File 1505   **Technology in Education Committee.** - 1988.
                            Contents: minutes of June 7, 1988, with reference to discussion document re
                   computing at Waterloo.

File 1506   **Telephone.** - 1986.
                            Contents: correspondence, memoranda, notes.

File 1507   **Telephone services.** - 1984-1985.

File 1508   **Text databases.** - 1992.
                            Contents: material relating to development of text databases. Includes reports, ms.
                   notes, work done by Eric Mackie.

File 1509   **Thoth Computer Research Foundation.** - 1979.
                            Contents photocopy of draft application for incorporation of Thoth Computer
                   Research Foundation.

File 1510   **To do.** - [19--?].
                            Contents: one list.
                            Untitled file.

File 1511   **To do: old.** - 1983-1984.
                            Contents: material on a number of topics. Includes memoranda, correspondence.
                            Restricted.

File 1512   **Trip: Middle East, 1985.** - 1985.
                            Contents: correspondence, itinerary re 1985 trip by Eric Mackie. Includes information
                   on Sultan Qaboos University.
                            Loose papers.

File 1513   **Typesetter.** - 1988.
                            Contents: material re purchase of typesetting equipment.

File 1514   **Universities and Polytechnic Computer Centre of Hong Kong.** - 1972-1978.
                            Contents: material relating to the Universities and Polytechnic Computer Centre, Ltd.
                   in Hong Kong. J. Wesley Graham served as a member of their advisory panel. Consists of a
                   binder of background materials compiled for the Computing Advisory Panel and some material
                   relating to a visit by J. Wesley Graham in 1978.
                            Untitled.
                            Loose binder.

File 1515   **Universities and Polytechnic Computer Centre of Hong Kong: newsletters.** - 1977-1980.
                            Untitled folder.
                            Publications

File 1516   **University and Polytechnic, Hong Kong.** - 1977-1978.
                            Contents: material relating to the Universities and Polytechnic Computer Centre, Ltd.
                   in Hong Kong. J. Wesley Graham served as a member of their advisory panel. Includes
                   correspondence, news releases.

File 1517   **University Computing Committee.** - 1987.
                            Contents: minutes and agendas, reports, working papers (file 1 of 2).

File 1518   **University Computing Committee.** - 1987.
                            Contents: minutes and agendas, reports, working papers (file 2 of 2).

File 1519   **University Computing Committee (file 1 of 2).** - 1988.
                            Contents: minutes, background papers on computing. Includes computing plans from
                   all faculties. J. Wesley Graham a member.
                            Minutes marked "Confidential."

File 1520   **University Computing Committee (file 2 of 2).** - 1988.
                            Minutes marked "Confidential."

File 1521   **University computing plan: DCS perspective.** - 1988.
                            Contents: loose report.

File 1522   **University of Stellenbosch.** - 1983.
                            Contents: promotional material for the Institute for Applied Computer Science, with
                   biographical information on Pieter Ritzinger. Topical file.

File 1523   **University of Toronto/University of Waterloo Cooperative on Information Technology: affiliate profiles, February, 1983.** - 1983.
    Contents: publication containing a list of affiliates with brief history and description of activities for each.
    Loose publication.

File 1524   **University of Waterloo: Computer Software Policy and Guidelines.** - 1981.
    Contents: memoranda, draft policies.

File 1525   **University of Waterloo Management Board: minutes.** - 1988.
    Contents: minutes, "confidential."
    Loose papers.
    Minutes marked "Confidential."

File 1526   **University of Waterloo: software policy.** - 1981-1983.
    Contents: policies and guidelines, reports and memoranda.

File 1527   **University Research Council.** - 1985.
    Contents: proposed terms of reference.

File 1528   **University Research Incentive Fund.** - 1984-1985.
    Contents: correspondence, memoranda, releases, publicity materials.

File 1529   **UNIX.** - 1974-1977.
    Contents: correspondence, memoranda, background information.

File 1530   **UNIX.** - 1985.
    Contents: proposal from F.D. Boswell re using UNIX for CS courses.

File 1531   **Video disk.** - 1987-1988.
    Contents: correspondence and product information of optical media.

File 1532   **Volker Craig.** - 1980.
    Contents: correspondence and agreements.

File 1533   **Volker-Craig.** - 1982.
    Contents: releases, photographs about the acquisition of Volker-Craig by Nabu Manufacturing Corporation.

File 1534   **VS1-VM home grown utilities / Wayne Montgomery & Martin Timmerman, Data Processing Dept., University of Waterloo, presented at SHARE 62, Anaheim Cal., March 1984.** - 1984.
    Loose publication.
    Added Entries: Timmerman, Martin

File 1535   **WATAPPLE.** - 1985.
    Contents: material relating to a proposed Joint research project with Apple Canada Ltd. with the object of instituting a course to provide campus-wide computer literacy. Includes correspondence, proposal, ms. notes, memoranda, working papers

File 1536   **WATBOL-11.** - 1976.
    Contents: newsletter, printed review.

File 1537   **WATBOL-11 error messages.** - [197-?].
    Contents: one manual.
    Loose duo-tang.

File 1538   **WATBOL, Aug. 25, 1976: untitled computer printout.** - 1976.
    Contents: untitled computer output.

File 1539   **WATBOL printouts.** - 1982.
    Contents: several computer printouts from March, 1982, some with annotations. Includes "control-break" material.
    Untitled.
    Loose printouts.

File 1540   **WATBOL newsletter.** - 1974-1975.
    Contents: correspondence, blank WATBOL commercial license, issues of newsletter.

File 1541   **WATCOM 11/45.** - 1973.
                   Contents: material relating to PDP 11/45, including correspondence with DEC.

File 1542   **[WATCOM]: Glenn Anderson: software support.** - 1986-1988.
                   Contents: memoranda re WATCOM.
                   Confidential information.

File 1543   **WATDEC.** - 1988.
                   Contents: correspondence, memoranda, proposal re DEC maintenance.

File 1544   **WATDEC Project Management Committee.** - 1984-1985.
                   Contents: minutes and agendas.

File 1545   **WATDEC Project Management Committee.** - 1986.
                   Contents: minutes and agendas.

File 1546   **WATDEC Project Management Committee.** - 1987.
                   Contents: minutes and agendas.

File 1547   **WATDEC Project Management Committee: minutes July 31, 1985.** - 1985.
                   Untitled.
                   Loose papers.

File 1548   **WATDEC project: PICK [operating system].** - 1983-1984.
                   Contents
                   Untitled.
                   Loose papers.

File 1549   **WATDEC: project status reports, WATDEC newsletters.** - 1984-1985.
                   Contents: memoranda, proposal summaries, reports, newsletters.
                   Includes newsletters.

File 1550   **WATDEC proposals.** - 1985.
                   Contents: research proposals for WATDEC Research Project.
                   Untitled folder.

File 1551   **WATDEC status report feedback for Q4.** - [1984].
                   Contents: summary of project reviews.
                   Untitled folder.

File 1552   **WATEDIT-11.** - [19--?].
                   Contents: manual, ms. notes on program.

File 1553   **Waterloo BASIC.** - 1979.
                   Contents: photocopies of ms. notes, diagrams, transparencies.
                   Loose item.

File 1554   **Waterloo BASIC.** - [1979].
                   Contents: working papers: ms. notes, transparencies, printouts with annotations.
                   Includes one 11 p. ms. document with title "Getting going with Waterloo BASIC".
                   Untitled folder.

File 1555   **Waterloo BASIC.** - 1979.
                   Contents: working papers: ms. notes, printouts, manuals.
                   Untitled.
                   Loose papers.

File 1556   **Waterloo BASIC.** - 1980-1982.
                   Contents: correspondence, ms. notes.

File 1557   **Waterloo BASIC: series 1.** - 1978-1979.
                   Contents: material relating to Waterloo Virtual BASIC, IBM Series/1. Includes
                   manuals, J. Wesley Graham ms. notes, overhead transparencies detailing history of Waterloo
                   BASIC.

File 1558   **Waterloo Computing Systems Ltd.** - 1981.
                   Contents: one memorandum.
                   Loose memorandum.

File 1559   **Waterloo Engineering Software: WES.** - 1985.
             Contents: information about the private company formed to market engineering software developed at the University of Waterloo.

File 1560   **Waterloo Institute for Computer Research (WICR).** - 1981-1982.
             Contents: releases, proposals, memoranda.

File 1561   **Waterloo PORT project.** - 1982-1983.
             Contents: correspondence.
             Untitled.
             Loose papers.

File 1562   **WATFAC accounting.** - 1984.
             Contents: two spiral-bound publications: _Computerized system to calculate WATFAC revenue and royalties_ by J.J. McMnagle, 84/07/19 and _Accounting system manual_ by J.J. McMonagle and P. Rowland, 84/07/19.
             Loose items

File 1563   **WATFAC addresses.** - 1974.

File 1564   **[WATFAC]: Book business 1974.** - 1974-1977.
             Contents: material about business activities of WATFAC Publications Ltd. Includes records of book sales 1974-1977.

File 1565   **WATFAC: correspondence.** - 1981.
             Contents: loose WATFAC correspondence, 1981.
             Untitled.
             Loose papers.

File 1566   **WATFAC draft agreement.** - 1995.

File 1567   **WATFAC history.** - 1974-1977.
             Contents: documents relating to Structured Computing Systems Ltd., WATFAC and WATCOM, their incorporation, finances, agreements. Includes correspondence, agreements, ms. notes.
             Restricted.

File 1568   **WATFAC: IBM Italy.** - 1974-1975..
             Contents: D. Cowan re course for members of computing centre of University of Calabria.

File 1569   **[WATFAC]: Profile Canadian commercial: A-C.** - 1970-1978.

File 1570   **[WATFAC]: Profile Canadian commercial: D-J.** - 1969-1978.

File 1571   **[WATFAC]: Profile Canadian commercial: K & L.** - 1977-1978.

File 1572   **[WATFAC]: Profile Canadian commercial: M-O.** - 1968-1978.

File 1573   **[WATFAC]: Profile Canadian commercial: P-Z.** - 1971-1978.

File 1574   **[WATFAC]: Profile Canadian educational: Alberta.** - 1971-1978.

File 1575   **[WATFAC]: Profile Canadian educational: British Columbia.** - 1968-1978.

File 1576   **[WATFAC]: Profile Canadian educational: Manitoba.** - 1969-1978.

File 1577   **[WATFAC]: Profile Canadian educational: New Brunswick.** - 1968-1978.

File 1578   **[WATFAC]: Profile Canadian educational: Newfoundland.** - 1974-1978.

File 1579   **[WATFAC]: Profile Canadian educational: Nova Scotia.** - 1970-1978.

File 1580   **[WATFAC]: Profile Canadian educational: Ontario.** - 1968-1978.

File 1581   **[WATFAC]: Profile Canadian educational: Prince Edward Island.** - 1978.

File 1582   **[WATFAC]: Profile Canadian educational: Quebec.** - 1968-1978.

File 1583   **[WATFAC]: Profile Canadian educational: Saskatchewan.** - 1969-1978.

File 1584   **[WATFAC]: Profile foreign commercial: A.** - 1974-1978.

File 1585   **[WATFAC]: Profile foreign commercial: B.** - 1972-1978.

File 1586   **[WATFAC]: Profile foreign commercial: C.** - [197-]-1978.
                  File is empty.

File 1587   **[WATFAC]: Profile foreign commercial: D-F.** - 1968-1978.

File 1588   **[WATFAC]: Profile foreign commercial: G.** - 1970-1978.

File 1589   **[WATFAC]: Profile foreign commercial: H-L.** - 1971-1978.

File 1590   **[WATFAC]: Profile foreign commercial: M.** - 1976-1978.

File 1591   **[WATFAC]: Profile foreign commercial: N, O.** - 1974-1978.

File 1592   **[WATFAC]: Profile foreign commercial: P-R.** - 1975-1978.

File 1593   **[WATFAC]: Profile foreign commercial: S.** - 1971-1978.

File 1594   **[WATFAC]: Profile foreign commercial: T-Z.** - 1975-1978.

File 1595   **[WATFAC]: Profile foreign educational: A.** - 1970-1978.

File 1596   **[WATFAC]: Profile foreign educational: B.** - 1970-1978.

File 1597   **[WATFAC]: Profile foreign educational: C.** - 1971-1978.

File 1598   **[WATFAC]: Profile foreign educational: D-F.** - 1968-1978.

File 1599   **[WATFAC]: Profile foreign educational: G.** - 1968-1978.

File 1600   **[WATFAC]: Profile foreign educational: H-L.** - 1970-1978.

File 1601   **[WATFAC]: Profile foreign educational: M.** - 1974-1978.

File 1602   **[WATFAC]: Profile foreign educational: N, O.** - 1970-1978.

File 1603   **[WATFAC]: Profile foreign educational: P-R.** - 1970-1978.

File 1604   **[WATFAC]: Profile foreign educational: S.** - 1970-1978.

File 1605   **[WATFAC]: Profile foreign educational: T-Z.** - 1970-1978.

File 1606   **[WATFAC]: Profile information sheet.** - 1978.

File 1607   **[WATFAC]: Profile: miscellaneous information.** - 1977-1979.

File 1608   **[WATFAC]: Profile terminations: Canadian commercial.** - 1972-1978.

File 1609   **[WATFAC]: Profile terminations: Canadian educational.** - 1970-1978.

File 1610   **[WATFAC]: Profile terminations: foreign commercial.** - 1970-1978.

File 1611   **[WATFAC]: Profile terminations: foreign educational.** - 1971-1978.

File 1612   **[WATFAC]: Profile terminations: U.S. commercial.** - 1968-1978.

File 1613   **[WATFAC]: Profile terminations: U.S. educational.** - 1968-1978.

File 1614   **[WATFAC]: Profile U.S. commercial: A.** - 1969-1978.

File 1615   **[WATFAC]: Profile U.S. commercial: B.** - 1969-1978.

File 1616   **[WATFAC]: Profile U.S. commercial: C.** - 1968-1978.

File 1617   **[WATFAC]: Profile U.S. commercial: D-F.** - 1968-1978.

File 1618   **[WATFAC]: Profile U.S. commercial: G, H.** - 1971-1978.

File 1619   **[WATFAC]: Profile U.S. commercial: I-K.** - 1968-1978.

File 1620   **[WATFAC]: Profile U.S. commercial: L.** - 1970-1978.

File 1621   **[WATFAC]: Profile U.S. commercial: M.** - 1970-1978.

File 1622   **[WATFAC]: Profile U.S. commercial: N.** - 1969-1978.

File 1623   **[WATFAC]: Profile U.S. commercial: O.** - 1971-1978.

File 1624   **[WATFAC]: Profile U.S. commercial: P, Q** - 1972-1978.

File 1625   **[WATFAC]: Profile U.S. commercial: R.** - 1973-1978.

File 1626   **[WATFAC]: Profile U.S. commercial: S.** - 1971-1978.

File 1627   **[WATFAC]: Profile U.S. commercial: T.** - 1968-1978.

File 1628   **[WATFAC]: Profile U.S. commercial: U.** - 1971-1978.

File 1629   **[WATFAC]: Profile U.S. commercial: V-Z.** - 1968-1978.

File 1630   **[WATFAC]: Profile U.S. educational: Alabama.** - 1968-1978.

File 1631   **[WATFAC]: Profile U.S. educational: Arizona.** - 1978.

File 1632   **[WATFAC]: Profile U.S. educational: Arkansas.** - 1970-1978.

File 1633   **[WATFAC]: Profile U.S. educational: California.** - 1968-1978.

File 1634   **[WATFAC]: Profile U.S. educational: Colorado.** - 1974-1978.

File 1635   **[WATFAC]: Profile U.S. educational: Connecticut.** - 1968-1978.

File 1636   **[WATFAC]: Profile U.S. educational: Delaware.** - 1977-1978.

File 1637   **[WATFAC]: Profile U.S. educational: District of Columbia.** - 1969-1978.

File 1638   **[WATFAC]: Profile U.S. educational: Florida.** - 1970-1978.

File 1639   **[WATFAC]: Profile U.S. educational: Georgia.** - 1970-1978.

File 1640   **[WATFAC]: Profile U.S. educational: Hawaii.** - 1972-1978.

File 1641   **[WATFAC]: Profile U.S. educational: Idaho.** - 1974-1978.

File 1642   **[WATFAC]: Profile U.S. educational: Illinois.** - 1968-1978.

File 1643   **[WATFAC]: Profile U.S. educational: Indiana.** - 1970-1978.

File 1644   **[WATFAC]: Profile U.S. educational: Iowa.** - 1968-1978.

File 1645   **[WATFAC]: Profile U.S. educational: Kansas.** - 1968-1978.

File 1646   **[WATFAC]: Profile U.S. educational: Kentucky.** - 1968-1978.

File 1647   **[WATFAC]: Profile U.S. educational: Louisiana.** - 1970-1978.

File 1648   **[WATFAC]: Profile U.S. educational: Maine.** - 1970-1978.

File 1649   **[WATFAC]: Profile U.S. educational: Maryland.** - 1969-1978.

File 1650   **[WATFAC]: Profile U.S. educational: Massachusetts.** - 1969-1978.

File 1651   **[WATFAC]: Profile U.S. educational: Michigan.** - 1970-1978.

File 1652   **[WATFAC]: Profile U.S. educational: Minnesota.** - 1977-1978.

File 1653   **[WATFAC]: Profile U.S. educational: Mississippi.**
         File is empty.

File 1654   **[WATFAC]: Profile U.S. educational: Missouri.** - 1970-1978.

File 1655   **[WATFAC]: Profile U.S. educational: Montana.**
         File is empty.

File 1656   **[WATFAC]: Profile U.S. educational: Nebraska.** - 1970-1978.

File 1657   **[WATFAC]: Profile U.S. educational: Nevada.**
         File is empty.

File 1658   **[WATFAC]: Profile U.S. educational: New Hampshire.** - 1971-1978.

File 1659   **[WATFAC]: Profile U.S. educational: New Jersey.** - 1968-1978.

File 1660   **[WATFAC]: Profile U.S. educational: New Mexico.** - 1970-1978.

File 1661   **[WATFAC]: Profile U.S. educational: New York.** - 1969-1978.

File 1662   **[WATFAC]: Profile U.S. educational: North Carolina.** - 1969-1978.

File 1663   **[WATFAC]: Profile U.S. educational: North Dakota.** - 1973-1978.

File 1664   **[WATFAC]: Profile U.S. educational: Ohio.** - 1970-1978.

File 1665   **[WATFAC]: Profile U.S. educational: Oklahoma.** - 1969-1978.

File 1666   **[WATFAC]: Profile U.S. educational: Oregon.** - 1972-1978.

File 1667   **[WATFAC]: Profile U.S. educational: Pennsylvania.** - 1968-1978.

File 1668   **[WATFAC]: Profile U.S. educational: Rhode Island.** - 1968-1978.

File 1669   **[WATFAC]: Profile U.S. educational: South Carolina.** - 1970-1978.

File 1670   **[WATFAC]: Profile U.S. educational: South Dakota.** - 1973-1978.

File 1671   **[WATFAC]: Profile U.S. educational: Tennessee.** - 1970-1978.

File 1672   **[WATFAC]: Profile U.S. educational: Texas.** - 1971-1978.

File 1673   **[WATFAC]: Profile U.S. educational: Utah.** - 1970-1978.

File 1674   **[WATFAC]: Profile U.S. educational: Vermont.** - 1978.

File 1675   **[WATFAC]: Profile U.S. educational: Virginia.** - 1970-1978.

File 1676   **[WATFAC]: Profile U.S. educational: Washington.** - 1968-1978.

File 1677   **[WATFAC]: Profile U.S. educational: West Virginia.** - 1969-1978.

File 1678   **[WATFAC]: Profile U.S. educational: Wisconsin.** - 1973-1978.

File 1679   **[WATFAC]: Profile U.S. educational: Wyoming.**
         File is empty.

File 1680   **WATFAC publishing: master copy (file 1 of 2).** - 1975.
         Contents: incomplete ts., some original, some computer output, of FORTRAN with
    business applications by Craig. R. Peterkin and David H. Scuse. Waterloo, Ont. : WATFAC, 1974.
         Loose papers

File 1681   **WATFAC publishing: master copy (file 2 of 2).** - 1975.
> *Contents: incomplete ts., some original, some computer output, of FORTRAN with business applications by Craig. R. Peterkin and David H. Scuse. Waterloo, Ont. : WATFAC, 1974.*
> *Loose papers*

File 1682   **WATFAC truck.** - 1974-1977.
> *Contents: housekeeping file re vehicle.*

File 1683   **[WATFAC]: WATNEWS.** - 1977.
> *Contents: correspondence re mailing list.*

File 1684   **WATFAC: WATNEWS correspondence.** - 1978.
> *Untitled file.*

File 1685   **[WATFAC]: Watnews: correspondence: letters approaching possible subscribers.** - 1976-1977.

File 1686   **[WATFAC]: Watnews: mailing list updates.** - 1980.

File 1687   **[WATFAC]: Watnews: Newsletters.** - 1977-1979.

File 1688   **[WATFAC]: Watnews: Reprinted articles.** - 1977-1978.

File 1689   **[WATFAC]: WATPAK/C letter, WATPAK/C Inquiry information sheets, WATPAK/C inquiry response.** - 1977.
> *Contents: WATFAC binder containing masters for use in marketing educational material.*
> *Loose binder*

File 1690   **WATFILE.** - 1981-1984.
> *Contents: material relating to PET and WATFILE database managers, and to a WATFILE workshop. Includes manuals, workshop information.*

File 1691   **WATFILE.** - 1985.
> *Contents: ms notes, one WATCOM utilities manual for the IBM PC/Dos system, 1985.*

File 1692   **WATFILE correspondence.** - 1976.

File 1693   **WATFIV.** - 1975-1978.
> *Contents: material on marketing of WATFIV and on communications with users. Includes correspondence, lists of purchasers, software review, memoranda.*

File 1694   **WATFIV-S.** - 1974-1976.
> *Contents: correspondence, ms. notes.*

File 1695   **Watfive [sic].** - [19--?].
> *Contents: one set of photocopies: "Examples from FORTRAN IV with WATFOR and WATFIV using structured WATFIV".*

> *Subject: WATFOR*

File 1696   **WATFOR-11.** - 1975-1976.
> *Contents: articles about WATFOR and WATBOL and PDP-11, memoranda, newsletters, announcements from WATFAC.*

> *Subject: WATFOR*

File 1697   **WATFOR-IIs.** - 1974-1978.
> *Contents: WATFAC announcement of WATFOR-11s compiler, agreement, correspondence, notes.*

> *Subject: WATFOR*

File 1698   **[WATIAC]: A reference guide for the WATIAC computer and the WATMAP assembler.** - 1974.
> *Contents: computer printout of manual by Rick Penton and Steve Treadwell. "The WATIAC (Waterloo Instruction Automatic Computer" is a hypothetical machine, designed at the University of Waterloo in June 1973. Its purpose is to provide a convenient means of teaching large numbers of students about many of the features of modern computers."*
> *Loose papers.*

File 1699   **The WATIAC computer operating system.** - 1974.
        Contents: manual, produced by computer output.
        Loose publication in duo-tang.

File 1700   **[WATIAC]: The channel.** - 1974.
        Contents: manual, produced by computer output.
        Title on cover: Channel programming with the WATIAC computer.
        Loose publication in duo-tang.

File 1701   **WATIAC, WATMAP.** - 1974-1975.
        Contents: documentation (computer output), proposal, student paper, memoranda, notes. Includes "Architecture and operation of the WATIAC Computer" by James A. Smith, Math 132B, Dept. of Computer Science, November 1975. Documentation: manual _Linking and loading on the WATIAC computer._

File 1702   **WATPAK/C workshop: scheduled for April 1977: not held.** - 1977.
        Contents: correspondence and notes re arrangements.

File 1703   **WATPCF [Waterloo Portable Computing Facility].** - 1977-1978.
        Contents: material re portable or mini computer developed for high school use. Includes correspondence, clippings, guideleines.

File 1704   **WATSIX.** - 1973.
        Contents: one memorandum :"ideas" file.

File 1705   **WATSOFT.** - 1982.
        Contents: material relating to establishment, structure, role, objectives, relationship with university. Includes memoranda, proposals, meeting minutes, organization charts, ms. notes.

File 1706   **WATSOFT.** - 1982.
        Contents: material relating to the establishment of WATSOFT. Includes ms. original and ts. drafts of proposal by J. Wesley Graham.

File 1707   **WATSOFT: a proposal for launching WATSOFT: drafts, Feb. 1982.** - 1982.
        Untitled file.

File 1708   **WATSOFT: a proposal for launching WATSOFT: drafts, Feb. 1982.** - 1982.
        Untitled file.

File 1709   **WATSOFT: accounting.** - 1982.
        Contents: WATSOFT-Computer Systems Group notes for discussion.

File 1710   **WATSOFT: banking information.** - 1982.
        Contents: legal correspondence re registration, Bylaw no. 3. Don Cowan's file.

File 1711   **WATSOFT: board of directors.** - 1982.
        Contents: minutes, status report marked "confidential".
        Confidential.

File 1712   **WATSOFT: CATA [Canadian Advanced Technology Association].** - 1982.
        Contents: correspondence, catalogue Don Cowan's file.

File 1713   **WATSOFT: CEMCORP [Canadian Educational Microprocessor Corporation].** - 1982.
        Contents: correspondence. Don Cowan's file.

File 1714   **WATSOFT: co-ordination.** - 1982.
        Contents: one notice from the University of Waterloo Dept. of Co-ordination and Placement about student interviews.

File 1715   **WATSOFT: consulting.** - [198-?].
        Contents: one page of billing rates.

File 1716   **WATSOFT: contacts.** - 1982.
        Contents: correspondence, business cards.

File 1717   **WATSOFT: contracts.** - 1982.
        Contents: photocopy of contract between the Ministry of Government Services and QL Systems.

File 1718   **WATSOFT: correspondence.** - 1982.
                            Contents: correspondence and copies to and from D. Cowan, president, WATSOFT.

File 1719   **WATSOFT (file 1 of 3).** - 1982-1984.
                            Contents: material relating to WATSOFT: establishment, operation, finances,
                   relationships with other groups. Includes correspondence, ms. notes and draft documents by
                   J. Wesley Graham, financial information, minutes, agreements, etc.

File 1720   **WATSOFT (file 2 of 3).** - 1982-1984.
                            Contents: material relating to WATSOFT: establishment, operation, finances,
                   relationships with other groups. Includes correspondence, ms. notes and draft documents by
                   J. Wesley Graham, financial information, minutes, agreements, etc.

File 1721   **WATSOFT (file 3 of 3).** - 1982-1984.
                            Contents: material relating to WATSOFT: establishment, operation, finances,
                   relationships with other groups. Includes correspondence, ms. notes and draft documents by
                   J. Wesley Graham, financial information, minutes, agreements, etc.

File 1722   **WATSOFT: future.** - 1982.
                            Contents: one memorandum.

File 1723   **WATSOFT: Imperial Oil.** - 1982.
                            Contents: correspondence, ms. and ts. notes to Don Cowan from himself re
                   consulting contract.

File 1724   **WATSOFT: legal.** - 1982.
                            Contents: corresponce with lawyer re WATSOFT legal matters such as trade mark,
                   registrations, resolutions, etc.

File 1725   **WATSOFT meeting notes.** - 1982.
                            Contents: agenda, ms. notes.

File 1726   **WATSOFT: miscellaneous.** - 1982.
                            Contents: correspondence and article photocopies.

File 1727   **WATSOFT: presentation.** - 1982.
                            Contents: overhead transparencies, memoranda and ms. notes for a presentation on
                   establishment and launching of WATSOFT.

File 1728   **WATSOFT presentation.** - 1982.
                            Contents: paper copies of overhead transparencies.
                            Untitled file.

File 1729   **WATSOFT presentation: board meeting.** - 1982.
                            Contents: overhead transparencies.

File 1730   **WATSOFT products.** - 1982.
                            Contents: one memorandum with activity timeline.
                            Untitled folder.

File 1731   **WATSOFT Products Inc.: business plans.** - 1982.
                            Contents: ms. and ts. drafts marked "confidential".
                            Confidential.

File 1732   **WATSOFT Products Inc: miscellaneous correspondence.** - 1982.
                            Contents: one letter carbon to IBM re potential contract.

File 1733   **WATSOFT Products reorganization and business plan.** - 1982.
                            Contents: overhead transparencies for presentation. In chart form, elucidates
                   relationships between the University of Waterloo, IBM, Structured Computing Systems,
                   Waterloo Computing Systems , WATFAC Publications and WATCOM Seminars.
                            Untitled folder.

File 1734   **WATSOFT products: taxes.** - 1982.
                            Contents: memoranda re sales taxes.

File 1735   **WATSOFT: salary survey.** - 1981-1982.
                            Contents: photocopied material and correspondence re salary levels for data
                   processing personnel.

File 1736   **WATSOFT: University of Waterloo.** - 1982.
                Contents: one draft memorandum re University of Waterloo patent and software
        policies.

File 1737   **WATSOFT, WATCOM correspondence.** - 1982-1983.
                Untitled.
                Loose papers.

File 1738   **[WATSOFT]: Waterloo file system: tutorial and reference guide.** - [198-]. - 26 leaves.
                Loose publication.

File 1739   **[WATSOFT]: Waterloo Software Applications Centre.** - 1981-1982.
                Contents: draft WATSOFT/WATCOM agreement, overhead transparencies for
        presentation, in chart form, of development and organizational relationships of the Waterloo
        Software Applications Centre.
                Untitled folder.

File 1740   **WATSOFT [Waterloo Software Applications Centre].** - 1982.
                Contents: material relating to establishment, organization, objectives of WATSOFT.
        Includes memoranda, proposals, organization charts.
                Untitled file.

File 1741   **WATSOFT [Waterloo Software Applications Centre].** - 1982-1990.
                Contents: material relating to establishment, structure, role, objectives, relationship
        with university. Includes memoranda, proposals, meeting minutes, organization charts.

File 1742   **WATUTIL.** - [197-?].
                Contents: manual, produced by computer-output.
                Loose publication in duo-tang.

File 1743   **WATUTIL.** - 1974-1975.
                Contents: correspondence with description of WATUTIL attached.

File 1744   **Welch.** - 1982.
                Contents: ms. notes, copies of WATCOM agreement for software development and
        license with Wilkinson Software Consultants Ltd.

File 1745   **WIDGET S/l: bug log.** - 1978.
                Contents: ms. notes re bugs.
                Loose duo-tang.

File 1746   **[WIDGET] Waterloo Interactive Direct Job Entry Terminal System, 5796-NQE
                IBM/IUP: problem log, patches, 11 April 1978: V1L0, V2L0, V3L0.** - 1978.
                Contents: ms. notes re bugs and fixes.
                Loose duo-tang.

File 1747   **WIDGET: Waterloo Interactive Direct Job Entry Terminal System manual.** - [1978?].
                Contents: two draft versions of a software manual (ca. 100 leaves computer output).
                Loose duo-tang.

File 1748   **WIDJET [Waterloo Interactive Debugging Job Entry Terminal System].** - 1975-1979.
                Contents: material relating to WIDJET including user survey results, user guide,
        correspondence, workshop notes, memoranda, newsletters, working papers. Also includes
        three papers written about WIDJET, one by J. Wesley Graham and others, one by Mark
        Langdon, one by W.M. Kerrigan. Includes slides and photographs.

File 1749   **WordPro 3 [file 1 of 4].** - 1980.
                Contents: one binder with diskette and other inserted documents relating to WordPro
        3 [Commodore] and VisiCalc.

File 1750   **WordPro 3 [file 2 of 4].** - 1980.
                Contents: one binder with diskette and other inserted documents relating to WordPro
        3 [Commodore] and VisiCalc.

File 1751   **WordPro 3 [file 3 of 4].** - 1980.
                Contents: one binder with diskette and other inserted documents relating to WordPro
        3 [Commodore] and VisiCalc.

File 1752   **WordPro 3 [file 4 of 4].** - 1980.
                Contents: one binder with diskette and other inserted documents relating to WordPro
        3 [Commodore] and VisiCalc.

File 1753   **Work.** - 1993.
                   Contents: work file containing memoranda, notes, gazette re downsizing of CSG.

File 1754   **WP.** - 1985.
                   Contents: WP instructions, 2 diskettes.
                   Contains two 5.25" diskettes labelled "WP 2/1/85" and "83/12/22 Dos 2.0 DEDID 2.2
                   IBM PC Apple mail".

File 1755   **WSL presentation.** - [198-?].
                   Contents: paper masters for overhead transparencies.
                   Untitled folder.

File 1756   **[WSL]: Software product announcement: Waterloo Systems Language.** - 1982.
                   Contents: photocopies of announcement.

File 1757   **WSL staff [Waterloo Systems Language].** - [197-?].
                   Contents: one list.
                   Untitled file.

File 1758   **WSL [Waterloo Systems Language].** - [198-?].
                   Contents: overhead transparencies.

File 1759   **WSL [Waterloo Systems Language].** - 1979-1981.
                   Contetns: one student essay, one paper by F.D. Boswell, Computer Systems Group.

Series 5.1 :   UW: Teaching

File 0   **UW : Teaching, 1958-1994.** - 1958-1994.
                   Series consists of material relating to courses taught by J. Wesley Graham at the
                   University of Waterloo from 1958/1959-1994 either by himself or using teaching assistants.
                   The files contain material relating to all aspects of teaching a course: course instruction
                   materials, examinations, problem sets, labs, overhead transparencies. The files also include all
                   information relating to administering a class: class lists, grade reports, examination room
                   cards, student assignments and examinations, grade appeals, etc. Includes, computer output,
                   correspondence, ms. notes, transparencies, manuals, etc.
                   Title from content of the series.
                   The series is arranged alphabetically by course name and number.
                   Many files contain personal information.

File 1760   **Computer science books bibliography.** - 1992.
                   Contents: computer printout of computer science titles.
                   Untitled.
                   Loose printout.

File 1761   **CS 130 : Fall 1992 [file 1 of 2].** - 1992.
                   Contents: final examination papers, Dec. 22, 1992.
                   Untitled.
                   Loose papers.
                   Restricted.

File 1762   **CS 130 : Fall 1992 [file 2 of 2].** - 1992.
                   Contents: final examination papers, Dec. 22, 1992.
                   Untitled.
                   Loose papers.
                   Restricted.

File 1763   **CS 130 : Spring 1992.** - 1992.
                   Contents: set of course notes for a prototype course to be introduced inthe fall of
                   1992 to replace CS 131. It is desribed as the first of four introductory courses in computer
                   science.
                   Untitled.
                   Loose papers.

File 1764   **CS 180.** - 1978-1979.
                   Contents: course materials. Includes examination and tutorial masters, grade
                   reporting lists.
                   Restricted.

File 1765   **CS 180 : a view of programming,   program structure diagrams, data structure diagrams : masters.** - 1982.
Contents: course materials. Printing masters for course notes and assignments.

File 1766   **CS 180 and 115.** - 1976-1980.
Contents: course materials. Includes course outline, class list, grade reporting lists.
Restricted.

File 1767   **CS 180 : Fall 1977.** - 1977.
Contents: course materials. Includes examination and tutorial masters, grade reporting lists, information about tutors.
Restricted.

File 1768   **CS 180 : Winter 1978.** - 1978.
Contents: course materials. Includes examination and tutorial masters, information about tutors.
Restricted.

File 1769   **CS 180 : Winter 1979.** - 1979.
Contents: course materials. Includes examination masters, problem sets, grade reporting lists.
Restricted.

File 1770   **CS 180 : Fall 1979.** - 1979-1981.
Contents: course materials. Includes assignment, examination and handout masters, grade reporting lists.
Restricted.

File 1771   **CS 180 slides [file 1 of 3].** - 1980.
Contents: transparencies of course materials, divided into chapters. Chapter 1 is the Easy-go Credit Card Company."
Loose binder.

File 1772   **CS 180 slides [file 2 of 3].** - 1980.
Contents: transparencies of course materials, divided into chapters. Chapter 1 is the Easy-go Credit Card Company."
Loose binder.

File 1773   **CS 180 slides [file 3 of 3].** - 1980.
Contents: transparencies of course materials, divided into chapters. Chapter 1 is the Easy-go Credit Card Company."
Loose binder.

File 1774   **CS 180 : notes Fall 1980.** - 1980.
Contents: masters and copies of handouts and other course information.

File 1775   **CS 180 : slides.** - 1981.
Contents: course materials: masters for overhead transparencies.

File 1776   **CS 180 : Fall 1981.** - 1981.
Contents: course materials. Includes class list.
Restricted.

File 1777   **CS 180 : Fall 1981** - 1980-1981.
Contents: handout masters.
Untitled folder.

File 1778   **CS 180 : Fall 1981.** - 1981.
Contents: course materials. Includes overhead transparencies and masters.
Untitled folder.

File 1779   **CS 180 : Fall 1981.** - 1981.
Contents: course materials: masters for handouts.
Untitled loose papers.

File 1780   **CS 180 : Winter 1982.** - 1982.
Contents: final examination, student correspondence.
Untitled loose papers.
Restricted.

File 1781   **CS 180 : Winter 1982 : co-operating sequential processes.** - 1982.
                          Contents: course materials: masters for printing.

File 1782   **CS 180 : Winter 1982 : file maintenance, project 2.** - 1982.
                          Contents: course materials: masters for printing.

File 1783   **CS 180 : Winter 1982 : invoicing,   project 3.** - 1982.
                          Contents: course materials: masters for overhead transparencies and handouts.

File 1784   **CS 180 : Winter 1982 : merging,   project 1.** - 1982.
                          Contents: course materials: masters for printing.

File 1785   **CS 180 : Winter 1982 : project B.** - 1982.
                          Contents: course materials: masters for printing.
                          Untitled loose papers.

File 1786   **CS 180 : Winter 1982 : region report.** - 1982.
                          Contents: course materials: masters for printing.

File 1787   **CS 180 : Winter 1982 : working storage P5 examples.** - 1982.
                          Contents: course materials: masters for printing.

File 1788   **CS 180 : Winter 1982 : working storage, P6 examples.** - 1982.
                          Contents: course materials: masters for printing.

File 1789   **CS 180 : Fall 1982 : correspondence, problem set, etc.** - 1982.
                          Contents: class lists, handout.
                          Restricted.

File 1790   **CS 180 : Fall 1982 : final exam.** - 1982.
                          Untitled.
                          Loose papers.

File 1791   **CS 180 : Fall 1983.** - 1982-1983.
                          Contents: overhead transparencies for problem sets,

File 1792   **CS 180 : final, Winter 1984.** - 1983-1985.
                          Contents: course materials. Includes assignment, examination and tutorial masters, grade reporting lists, student appeals and re-writes, course overview, memoranda, ms. notes.
                          Restricted.

File 1793   **CS 180 : Fall 1984.** - 1984.
                          Contents: course materials. Includes correspondence, syllabus, assignments, examinations, problem sets, handout masters, class list.
                          Restricted.

File 1794   **CS 180 : Winter 1985 : assignments, midterm, final exam.** - 1985.
                          Contents: class lists, correspondence.
                          Restricted.

File 1795   **CS 180 : Winter 1985 : assignments, midterm, final exam.** - 1985.
                          Contents: masters.
                          Restricted.

File 1796   **CS 180 : Fall 1985.** - 1985.
                          Restricted.

File 1797   **CS 180 : Jan. 1986.** - 1986.
                          Contents: ms. notes and calculations, assignments, computer output.

File 1798   **CS 180 : Winter 1986 [file 1 of   2].** - 1986.
                          Contents: computer output, exam masters, class lists, grade reports, exam attendance cards, ms. notes.
                          Restricted.

File 1799   **CS 180 : Winter 1986 [file 2 of   2].** - 1986.
                          Contents: computer output, exam masters, class lists, grade reports, exam attendance cards, ms. notes.
                          Restricted.

File 1800 **CS 180 : Winter 1986 : slides.** - 1986.
     Contents:transparencies.

File 1801 **CS 180 : Winter 1986 : slides.** - 1986.
     Contents:transparencies.

File 1802 **CS 180 : Fall 1986.** - 1986.
     Restricted.

File 1803 **[CS 180] : midterm [examination masters].** - 1986.
     Contents: masters, ms. notes, lectures for CS 180, Fall and Winter 1985-1986.

File 1804 **CS 180 : Winter 1988.** - 1987-1988.
     Contents: course materials including tutorials, assignments, projects, examinations.
Also includes grade reporting lists, student communications, memoranda, timertable
information.
     Restricted.

File 1805 **CS 212.** - 1989-1992.
     Contents: loose papers relating to teaching of CS 212. Includes J. Wesley Graham ms
notes and calculations, printed materials for demonstrations and examples, paper masters of
assignments, examination and tutorials 1991-1992 as well as solutions. Includes CS 212
course notes package: "Linked lists, stacks, and queues", and a course notes package for Fall
1989.
     Untitled.
     Loose papers.

File 1806 **CS 212.** - [199-].
     Contents: J. Wesley Graham ms. notes and working papers re CS 212 and PASCAL.

File 1807 **[CS212] : System catalog : 212? 448?** - [199-].
     Contents: paper masters.

File 1808 **[CS212] : System catalog : 212? 448?** - [199-].
     Contents: transparencies.

File 1809 **CS 212.** - 1993.
     Contents: loose papers relating to teaching of CS 212. Consists of assignment
handouts and packages of course notes on several topics.
     Untitled.
     Loose papers.

File 1810 **CS 212, CS 230 : assignment 3.** - [199?].
     Contents: ms. assignments.
     Untitled.
     Loose papers.

File 1811 **CS 212 & CS 448 : midterms and finals [examination masters].** - 1991-1994.
     Binder, loose.

File 1812 **CS 212 exam.** - [1992?].
     Contents: ms. draft of examination.

File 1813 **CS 212 : Fall 1991 [teaching file].** - 1991.
     Contents: grade reporting lists, grade appeals, course notes, handouts, notes,
memoranda.
     Restricted.

File 1814 **[CS 212 : Fall 1991] : An introduction to Pascal, chapter 1.** - [199-].
     Contents: ts., computer output.
     Untitled file.

File 1815 **CS 212 : Fall 1991 : WATCOM Pascal chapter 1 [file 1 of 25].** - 1991.
     Contents: course material for CS 212. Consists of "overheads" or transparencies.
Note on box: "WATCOM Pascal book, 1st three weeks: students buy book, overheads,
Chapters 1-15. Terry Stepiens book, real course."

File 1816 **CS 212 : Fall 1991 : WATCOM Pascal chapter 2 [file 2 of 25].** - 1991.

File 1817 **CS 212 : Fall 1991 : WATCOM Pascal chapter 3 [file 3 of 25].** - 1991.

File 1818   **CS 212 : Fall 1991 : WATCOM Pascal chapter 4 [file 4 of 25].** - 1991.

File 1819   **CS 212 : Fall 1991 : WATCOM Pascal chapter 5 [file 5 of 25].** - 1991.

File 1820   **CS 212 : Fall 1991 : WATCOM Pascal chapter 6 [file 6 of 25].** - 1991.

File 1821   **CS 212 : Fall 1991 : WATCOM Pascal chapter 7 [file 7 of 25].** - 1991.

File 1822   **CS 212 : Fall 1991 : WATCOM Pascal chapter 8 [file 8 of 25].** - 1991.

File 1823   **CS 212 : Fall 1991 : WATCOM Pascal chapter 9 [file 9 of 25].** - 1991.

File 1824   **CS 212 : Fall 1991 : WATCOM Pascal chapter 10 [file 10 of 25].** - 1991.

File 1825   **CS 212 : Fall 1991 : WATCOM Pascal chapter 11 [file 11 of 25].** - 1991.

File 1826   **CS 212 : Fall 1991 : WATCOM Pascal chapter 12 [file 12 of 25].** - 1991.

File 1827   **CS 212 : Fall 1991 : WATCOM Pascal chapter 13 [file 13 of 25].** - 1991.

File 1828   **CS 212 : Fall 1991 : WATCOM Pascal chapter 14 [file 14 of 25].** - 1991.

File 1829   **CS 212 : Fall 1991 : WATCOM Pascal chapter 15 [file 15 of 25].** - 1991.

File 1830   **CS 212 : Fall 1991 : overheads from Terry Stepien's book : 5.8-7.8, linked lists in Pascal   [file 16 of 25].** - 1991.

File 1831   **CS 212 : Fall 1991 : overheads from Terry Stepien's book : 8.2-10.13, recursive reverse programming [file 17 of 25].** - 1991.

File 1832   **CS 212 : Fall 1991 : overheads from Terry Stepien's book : 11.2-11.12, linear insertion sort   [file 18 of 25].** - 1991.

File 1833   **CS 212 : Fall 1991 : overheads from Terry Stepien's book : 12.4-12.25, program word occurrences [file 19 of 25].** - 1991.

File 1834   **CS 212 : Fall 1991 : overheads from Terry Stepien's book : 13.4-13.16, program reservations   [file 20 of 25].** - 1991.

File 1835   **CS 212 : Fall 1991 : overheads from Terry Stepien's book : 15.4-16.9, package scanner [file   21 of 25].** - 1991.

File 1836   **CS 212 : Fall 1991 : overheads from Terry Stepien's book : 2.1-2.9, extended BNF [file 22 of   25].** - 1991.

File 1837   **CS 212 : Fall 1991 : Pascal syntax, copied from Advanced programming by Lawrence H. Miller [file 23 of 25].** - 1991.

File 1838   **CS 212 : Fall 1991 : syntax diagrams [file 24 of 25].** - 1991.

File 1839   **CS 212 : Fall 1991 : reading a record-oriented sequential file, the string input package   user interface [file 25 of 25].** - 1991.

File 1840   **CS 212 : Fall 1992.** - 1992.
             Contents: final examinations and solutions.

File 1841   **CS 212, Fall 1992 : course evaluation questionnaires.** - 1992.
             Contents: completed course evaluation sheets.

File 1842   **CS 212, Fall 1992 : course evaluation questionnaires.** - 1992.
             Contents: completed questionnaires.
             Untitled.
             Loose papers.

File 1843   **CS 212 : Fall 1992 [file 1 of 4].** - 1992.
             Contents: final examination papers, Dec. 12, 1992.
             Untitled.
             Loose papers.
             Restricted.

File 1844   **CS 212 : Fall 1992 [file 2 of 4].** - 1992.
Contents: final examination papers, Dec. 12, 1992.
Untitled.
Loose papers.
Restricted.

File 1845   **CS 212 : Fall 1992 [file 3 of 4].** - 1992.
Contents: final examination papers, Dec. 12, 1992.
Untitled.
Loose papers.
Restricted.

File 1846   **CS 212 : Fall 1992 [file 4 of 4].** - 1992.
Contents: final examination papers, Dec. 12, 1992.
Untitled.
Loose papers.
Restricted.

File 1847   **CS 212 : Fall 1992 [teaching file].** - 1992.
Contents: grade reporting lists, course notes, handouts, notes, memoranda.
Restricted.

File 1848   **CS 212 : Fall 1992 [teaching file].** - 1992.
Contents: course information, handouts.
Untitled.
Loose papers.

File 1849   **CS 212 : Winter 1993 [teaching   file].** - 1993.
Contents: notes, memorada. Contains note: Wes did not teach.

File 1850   **CS 212, Fall 1993 : course evaluation questionnaires.** - 1993.
Contents: completed course evaluation sheets.

File 1851   **CS 212 : Fall 1993 : overheads for course notes prepared by D. Switzer [file 1of 6].** -
1993.
Contents: transparencies.

File 1852   **CS 212 : Fall 1993 : overheads for course notes prepared by D. Switzer [file 2 of 6].** -
1993.
Contents: transparencies.

File 1853   **CS 212 : Fall 1993 : overheads for course notes prepared by D. Switzer [file 3 of 6].** -
1993.
Contents: transparencies.

File 1854   **CS 212 : Fall 1993 : overheads for course notes prepared by D. Switzer [file 4 of 6].** -
1993.
Contents: transparencies.

File 1855   **CS 212 : Fall 1993 : course notes   prepared by D. Switzer [file 5 of 6].** - 1993.
Contents: paper copy of course notes, accompanied by 3 diskettes.
Includes three 31/4" diskettes.

File 1856   **CS 212 : Fall 1993 : overheads for course notes prepared by D. Switzer [file 6 of 6].** -
1993.
Contents: transparencies and ms. notes.

File 1857   **CS 212 : Fall 1993 [teaching file] (file 1 of 2).** - 1993.
Contents: grade reporting lists, grade appeals, individual students' projects (marked),
course notes, handouts, e-mail, notes, memoranda.
Includes 2 diskettes labelled CS 212 F93 Cindy's; CS 212 assignments F92, F93,
Dave Switzer's notes.
Restricted.

File 1858   **CS 212 : Fall 1993 [teaching file] (file 2 of 2).** - 1993.
Contents: grade reporting lists, grade appeals, individual students' projects (marked),
course notes, handouts, e-mail, notes, memoranda.
Includes 2 diskettes labelled CS 212 F93 Cindy's; CS 212 assignments F92, F93,
Dave Switzer's notes.
Restricted.

File 1859   **CS 212 : T. Stepien's book : 81/2x11 version, 6x9 version, 2 diskettes of Postscript**
                   files and Source files [file 1 of 4]. - 1993.
                        Contents: printouts of Computer science lecture outline on programming principles,
                   languages and techniques / by F.D. Boswell, T.M. Stepien. [Waterloo]: WATCOM Publications
                   Ltd., 1986.
                        Includes 2 diskettes.

File 1860   **CS 212 : T. Stepien's book : 81/2x11 version, 6x9 version, 2 diskettes of Postscript**
                   files and Source files [file 2 of 4]. - 1993.
                        Contents: printouts of Computer science lecture outline on programming principles,
                   languages and techniques / by F.D. Boswell, T.M. Stepien. [Waterloo]: WATCOM Publications
                   Ltd., 1986.
                        Includes 2 diskettes.

File 1861   **CS 212 : T. Stepien's book :81/2x11 version, 6x9 version, 2 diskettes of**
                   Postscriptfiles and Source files [file 3 of 4]. - 1993.
                        Contents: printouts of Computer science lecture outline on programming principles,
                   languages and techniques / by F.D. Boswell, T.M. Stepien. [Waterloo]: WATCOM Publications
                   Ltd., 1986.
                        Includes 2 diskettes.

File 1862   **CS 212 : T. Stepien's book : 81/2x11 version, 6x9 version, 2 diskettes of Postscript**
                   files and Source files [file 4 of 4]. - 1993.
                        Contents: printouts of Computer science lecture outline on programming principles,
                   languages and techniques / by F.D. Boswell, T.M. Stepien. [Waterloo]: WATCOM Publications
                   Ltd., 1986.
                        Includes 2 diskettes.

File 1863   **CS 230.** - [199-?].
                        Contents: photocopied article and other printed materials on relational databases and
                   sequential processes..
                        Untitled folder.

File 1864   **[CS 230?] : assignment 4 solutions.** - [199-].
                        Contents: handouts.
                        Untitled folder.

File 1865   **CS 230 : course notes.** - [199-].
                        Contents: one package of course notes.
                        Loose papers.

File 1866   **CS 230 : loose papers.** - [199-?].
                        Contents: photocopies of printed materials on file systems.
                        Untitled
                        Loose papers.

File 1867   **CS 230 : ms. notes.** - [199-?].
                        Contents: ms. notes, probably re CS 230.
                        Untitled.
                        Loose papers.

File 1868   **CS 230 : overheads.** - [199-?].
                        Contents: transparencies for "Student database".

File 1869   **CS 230.** - 1990.
                        Contents: J. Wesley Graham ms. notes and computer printout of work with "Student
                   database".
                        Untitled folder.

File 1870   **CS 230.** - 1990-1992.
                        Contents: handouts for assignments, projects and examinations, some with solutions,
                   some with ms. noites.
                        Untitled.
                        Loose papers.

File 1871   **CS 230 [file 1 of 4].** - 1990-1992.
                 Contents: loose papers relating to teaching of CS 230. Includes J. Wesley Graham
                 ms. notes, including lecture notes, calculations, printed materials for demonstration and
                 examples, paper masters of assignments and examinations 1990-1992. Includes CS 230
                 course notes packages.
                        Untitled.
                        Loose papers.

File 1872   **CS 230 [file 2 of 4].** - 1990-1992.
                        Untitled.
                        Loose papers.

File 1873   **CS 230 [file 3 of 4].** - 1990-1992.
                        Untitled.
                        Loose papers.

File 1874   **CS 230 [file 4 of 4].** - 1990-1992.
                        Untitled.
                        Loose papers.

File 1875   **CS 230.** - 1992-1993.
                        Contents: examinations, course outline for Winter 1992, Fall 1992, Winter 1993.

File 1876   **CS 230 and CS 335 : midterms and   finals.** - 1990-1992.
                        Contents: course materials: clean copies of examinateions.
                        Binder.

File 1877   **CS 230 : Winter 1990.** - 1990.
                        Contents: assignment handouts, solutions, examinations, course information sheet,
                 ms. notes.
                        Untitled.
                        Loose papers.

File 1878   **CS 230 : Winter 1990 [teaching   file].** - 1990.
                        Restricted.

File 1879   **CS 230 : Fall 1990.** - 1990.
                        Contents: "Assignment 5" paper master, tranparencies.
                        Untitled folder.

File 1880   **CS 230 : Fall 1990.** - 1990.
                        Contents: "Assignment 7" paper master.
                        Untitled folder.

File 1881   **CS 230 : Fall 1990.** - 1990.
                        Contents: assignment handouts, and solutions, examination, course information
                 sheet, course notes: "Algoriths and data structures".
                        Untitled.
                        Loose papers.

File 1882   **CS 230 : Fall 1990 [teaching file] (file 1 of 2).** - 1990.
                        Restricted.

File 1883   **CS 230 : Fall 1990 [teaching file] (file 2 of 2).** - 1990.
                        Restricted.

File 1884   **CS 230 : Winter 1991.** - 1991.
                        Contents: loose papers relating to teaching of CS 230. Consists of handouts.
                        Untitled.
                        Loose papers.

File 1885   **CS 230 : Winter 1991.** - 1991.
                        Contents: handouts for assignment.
                        Untitled.
                        Loose papers.

File 1886   **CS 230 : Winter 1991.** - 1991.
                        Contents: material relating to teaching of CS 230. Consists of handouts, J. Wesley
                 Graham ms. notes and working papers.

File 1887 **CS 230 : Winter 1991, Fall 1992.** - 1991-1992.
   Contents: loose papers relating to teaching of CS 230. Includes course information,
 handouts, course notes, and student information.
   Untitled.
   Loose papers.
   Restricted.

File 1888 **CS 230 : Winter 1991 [teaching   file].** - 1991.
   Restricted.

File 1889 **CS 230 : Fall 1991.** - 1991.
   Contents: loose papers relating to teaching of CS 230. Includes J. Wesley Graham
 ms. notes and calculations, printed materials for demonstrations and examples, examinations.
   Untitled.
   Loose papers.

File 1890 **CS 230 : Fall 1991.** - 1991.
   Contents: loose papers relating to teaching of CS 230. Consists of handouts.
   Untitled.
   Loose papers.

File 1891 **CS 230 : Fall 1991.** - 1991.
   Contents: handouts for assignments, examination, course information sheet, solutions.
   Untitled.
   Loose papers.

File 1892 **CS 230 : Fall 1991 [teaching file].** - 1991.
   Contents: grade reporting lists, course notes, handouts, notes, memoranda.
   Restricted.

File 1893 **CS 230 : Winter 1992 (file 1 of 2).** - 1992.
   Contents: loose papers relating to teaching of CS 230. Includes J. Wesley Graham
 ms. notes, printed materials for demonstrations and examples, assignment and project
 handouts.

File 1894 **CS 230 : Winter 1992 (file 2 of 2).** - 1992.
   Contents: loose papers relating to teaching of CS 230. Includes J. Wesley Graham
 ms. notes, printed materials for demonstrations and examples, assignment and project
 handouts.

File 1895 **CS 230, Winter 1992 : course evaluation questionnaires.** - 1992.
   Contents: completed course evaluation sheets.

File 1896 **CS 230 : Winter 1992 [teaching   file].** - 1992.
   Contents: grade reporting lists, grade appeals, assignment solutions, handouts,
 notes, memoranda.
   Contains 1 diskette containing assignment solutions.
   Restricted.

File 1897 **CS 230 : Spring 1992 : [Phyllis]   Didur.** - 1992.
   Contents: examinations, some course notes.
   Untitled.
   Loose papers.

File 1898 **CS 230 : Spring 1992 : [Phyllis]   Didur all assignments and solutions.** - 1992.
   Contents: assignments and solutions.

File 1899 **CS 230 : Fall 1992.** - 1992.
   Contents: loose papers relating to teaching of CS 230. Includes J. Wesley Graham
 ms. notes and calculations, printed materials for demonstrations and examples, e-mail
 printouts, Assignment 5 for CS 230, Fall 1992. Includes CS 230 course notes packages:
 "Machine language programming", "Assembler language programming", "Introduction to
 relational databases".
   Untitled.
   Loose papers.

File 1900 **CS 230 : Fall 1992.** - 1992.
   Contents: examination, solutions.

File 1901 **CS 230, Fall 1992 : course evaluation questionnaires.** - 1992.
   Contents: completed course evaluation sheets.

File 1902   **CS 230 : Fall 1992 [teaching file].** - 1992.
                Contents: grade reporting lists, grade appeals, individual students' projects (marked),
      course notes, handouts, e-mail, notes, memoranda.
                Restricted.

File 1903   **CS 230 : Winter 1993 [teaching   file].** - 1993.
                Contents: notes, memorada. Contains note: Wes did not teach.

File 1904   **CS 230 [file 1 of 10].** - [1993?].
                Contents: transparencies.
                Untitled.
                Loose binder.

File 1905   **CS 230 [file 2 of 10].** - [1993?].
                Contents: transparencies.
                Untitled.
                Loose binder.

File 1906   **CS 230 [file 3 of 10].** - [1993?].
                Contents: transparencies.
                Untitled.
                Loose binder.

File 1907   **CS 230 [file 4 of 10].** - [1993?].
                Contents: transparencies.
                Untitled.
                Loose binder.

File 1908   **CS 230 [file 5 of 10].** - [1993?].
                Contents: transparencies.
                Untitled.
                Loose binder.

File 1909   **CS 230 [file 6 of 10].** - [1993?].
                Contents: transparencies.
                Untitled.
                Loose binder.

File 1910   **CS 230 [file 7 of 10].** - [1993?].
                Contents: transparencies.
                Untitled.
                Loose binder.

File 1911   **CS 230 [file 8 of 10].** - [1993?].
                Contents: transparencies.
                Untitled.
                Loose binder.

File 1912   **CS 230 [file 9 of 10].** - [1993?].
                Contents: transparencies.
                Untitled.
                Loose binder.

File 1913   **CS 230 [file 10 of 10].** - [1993?].
                Contents: transparencies.
                Untitled.
                Loose binder.

File 1914   **[CS 240] : Programming Logic Systems, Inc.** - 1985.
                Contents: material relating to use of software micro-PROLOG in a CS 240
      experimental class. Includes correspondence, ms. notes.

File 1915   **CS 250 : introduction to computers and computer systems.** - [198-?].
                Contents: course information, ms. notes, computer output.
                Untitled.
                Loose papers.

File 1916   **CS 250 & CS 180 : midterms and   finals [examination masters] (file 1 of 2).** - 1982-
            1988.
                Binder, loose.

File 1917   **CS 250 & CS 180 : midterms and   finals [examination masters] (file 2 of 2).** - 1982-
1988.
Binder, loose.

File 1918   **CS 250 : Fall 1981.** - 1980-1981.
*Contents: ms. exercise, problem sets, class list, grade reporting list, memoranda, ms.
notes, student correspondence and notes.*

File 1919   **CS 250 : Fall 1982.** - 1982.
Contents: final examination master.

File 1920   **CS 250 : Fall 1982 : course outline, assignment distribution, etc.** - 1982.
Contents: course materials. Includes class list, memoranda.
Restricted.

File 1921   **CS 250 : Fall 1982 : master transparencies.** - 1982.
Contents: course materials. Contains masters for overhead transparencies.

File 1922   **CS 250 : Fall 1982 : problem sets.** - 1982.
Contents: course materials: problem sets.

File 1923   **CS 250 : final, Winter 1984.** - 1983-1985.
*Contents: course materials. Includes assignment and examination masters, grade
reporting lists, student appeals, examination attendance cards, memoranda, ms. notes.*
Restricted.

File 1924   **CS 250 : Fall 1984.** - 1984.
*Contents: course materials. Includes examinations, problem sets, tutorials, manuals,
overhead transparencies of syllabus, grade reporting lists, student appeals.*
Restricted.

File 1925   **CS 250 : master transparencies.** - 1985.
*Contents: binder containing transparencies and paper masters for chapters 1 to 6. In
addition, there are several transparencies fpr CS 230, dated 1988, inserted in the front of the
binder.*
Untitled.
Loose binder.

File 1926   **CS 250 : master transparencies.** - 1985.
Contents: binder containing transparencies and paper masters for chapters 7-10.
Untitled.
Loose binder.

File 1927   **CS 250 : master transparencies.** - 1985-1986.
Contents: binder containing transparencies and paper masters for chapters 11-14.
Untitled.
Loose binder.

File 1928   **CS 250 : transparencies.** - 1985.
Contents: transparencies chapters 1 to 6, 12, not in order.
Untitled.

File 1929   **CS 330.** - 1978.
Contents: course materials. Includes assignment masters and printout.

File 1930   **CS 330 : computerized accounting : system laboratory manual.** - [1978?].
Loose manual in binder.

File 1931   **CS 330 : interactive data entry.** - [1978].
Contents: transparencies [acetates], some hand-written..
Untitled folder.

File 1932   **CS 330 : maintenance [teaching   file].** - [1978].
Contents: transparencies [acetates].
"General ledger master file maintenance program."

File 1933   **CS 330 : order processing systems   [teaching file].** - 1978.
Contents: transparencies [acetates].
"Order processing program."

File 1934   **CS 330 : problem sets [teaching   file].** - 1978.
                 Contents: problem sets one and two, transparencies [acetates].

File 1935   **CS 330 : problem set 1 solutions   [teaching file].** - [1978].
                 Contents: computer output.

File 1936   **CS 330 : problem set 2 solutions   [teaching file].** - [1978].
                 Contents: problem set,computer output, transparencies [acetate]

File 1937   **CS 330 : problem set 3 [teaching   file].** - 1978.
                 Contents: problem sets, transparencies [acetates].

File 1938   **CS 330 : sales journal program   [teaching file].** - [1978].
                 Contents: transparencies [acetates].

File 1939   **CS 330 : update [teaching file].** - [1978].
                 Contents: transparencies [acetates].
                 "General ledger master file update program."

File 1940   **CS 330 : Winter 1978.** - 1978.
                 Contents: course materials. Includes course notes, examination and assignment
                 masters, correspondence. Includes memoranda about teaching and marking, special cases,
                 grade revisions, grade reports.
                 Restricted.

File 1941   **CS 330 : Spring 1978 : computerized accounting system laboratory manual /**
                 prepared   by Robert Ballantyne, August 1978. - 1978.
                 Contents: course manual in book form. Marginal annotations.
                 Loose manual.

File 1942   **CS 330 : Spring 1978.** - 1978.
                 Contents: course materials. Includes course notes, examination masters and
                 solutions. Includes grade reporting lists.
                 Restricted.

File 1943   **CS 330 : Spring 1978 [teaching   file].** - 1978.
                 Contents: contains course materials as described for box 8 and 9, with the addition of
                 exam and assignment masters and copies.
                 Restricted.

File 1944   **CS 330 : Spring 1978 : mid-term   exam, June 15, 1978 [teaching file].** - 1978.
                 Contents: exam masters, annotated transparencies [acetate].

File 1945   **CS 330 : Spring 1978 : final exam, Aug. 3, 1978.** - 1978.
                 Contents: exam masters, transparencies [acetate and paper], notes.
                 Untitled folder.

File 1946   **CS 330 : Fall 1978.** - 1978.
                 Contents: assignments: one transparency, 1 p. ms. notes.

File 1947   **CS 330 : Fall 1978.** - 1978.
                 Contents: course materials. Includes examination drafts and ts. copies, tutorial and
                 problem set copies. Includes transparencies probably written on during classes. Includes
                 memoranda about teaching and marking. Includes grade reports.
                 Untitled folder.
                 Restricted.

File 1948   **CS 330 : Fall 1978.** - 1978.
                 Contents: course materials. Includes examination masters, grade reporting lists.
                 Restricted.

File 1949   **CS 330 : Winter 1979.** - 1979.
                 Contents: course materials. Includes J. Wesley Graham lecture notes, transparencies,
                 problem sets, etc.

File 1950   **CS 330 : Winter 1979.** - 1979.
                 Contents: course materials. Includes examination masters, problem sets, tutorials,
                 grade reporting lists.
                 Restricted.

File 1951   **CS 330 : Winter 1979.** - 1979.
                    Contents: grade reports, special cases..
                    Restricted.

File 1952   **CS 330 : Winter 1979 : marks.** - 1979.
                    Contents: grade reports.
                    Restricted.

File 1953   **CS 330 : Fall 1979 [file 1 of 2].** - 1979.
                    Contents: course materials orgainzed in a binder. Includes J. Wesley Graham lecture
            notes, transparencies, problem sets, etc.
                    Loose binder.

File 1954   **CS 330 : Fall 1979 [file 2 of 2].** - 1979.
                    Contents: course materials orgainzed in a binder. Includes J. Wesley Graham lecture
            notes, transparencies, problem sets, etc.
                    Loose binder.

File 1955   **CS 330.** - [198-].
                    Contents: course materials. Includes pages of ms. course notes by J. Wesley Graham
            and transparencies probably written on during classes. Includes midterm course marks.
                    Untitled folder.

File 1956   **CS 330.** - [198-?].
                    Contents: transparencies, transparency masters, photocopies of notes.
                    Untitled folder.

File 1957   **CS 330 [file 1 of 3].** - 1980.
                    Contents: course materials organized in a binder. Includes transparencies of hand-
            written course materials, notes and diagrams, a lab manual, a "Technical document of CS330
            programs."
                    Untitled.
                    Loose binder.

File 1958   **CS 330 [file 2 of 3].** - 1980.
                    Contents: course materials organized in a binder. Includes transparencies of hand-
            written course materials, notes and diagrams, a lab manual, a "Technical document of CS330
            programs."
                    Untitled.
                    Loose binder.

File 1959   **CS 330 [file 3 of 3].** - 1980.
                    Contents: course materials organized in a binder. Includes transparencies of hand-
            written course materials, notes and diagrams, a lab manual, a "Technical document of CS330
            programs."
                    Untitled.
                    Loose binder.

File 1960   **CS 330 : lab manual / Heather Lennox, Computer Systems Group, Spring 1980.**
                    August 1978. - 1980.
                    Loose manual.

File 1961   **[CS330] : Technical document of   CS330 programs / by D.J. Richards, C.S.G.,m July**
                    1980. - 1980.
                    Contents: loose ts. (computer output).
                    Loose papers.

File 1962   **CS 330 : Winter 1980.** - 1980.
                    Contents: course notes on transparencies.
                    Untitled folder.

File 1963   **CS 330 : Winter 1980.** - 1980.
                    Contents: course materials consisting of photocopies of ts. and ms. notes.
                    Untitled.
                    Loose papers.

File 1964   **CS 330 : Fall 1980.** - 1980.
                    Contents: grade reporting list, course notes.
                    Untitled loose papers.
                    Restricted.

File 1965   **CS 330.** - 1980-1981.
              Contents: two grade revision special cases.
              Restricted.

File 1966   **CS 330.** - 1980-1982.
              Contents: course materials including problem sets, examinations, assignments, projects
              Untitled.
              Loose papers.

File 1967   **CS 330.** - 1980-1982.
              Contents: ts. and ms. course materials (paper and transparencies), including lecture
              notes, examination and tutorial. Includes computer printout.
              Untitled.
              Loose papers.

File 1968   **CS 330 accounting system.** - 1981.
              Contents: transparencies of course materials.
              Loose binder.

File 1969   **CS 330 : accounting system.** - 1981.
              Contents: course manual in book form. Marginal annotations.
              Loose manual.

File 1970   **CS 330 lab notes.** - [1981?].
              Contents: lab notes, organized in sections.
              Loose binder.

File 1971   **CS 330 lab slides, vol. 1 [file   1 of 2].** - [1981?].
              Contents: transparencies for lab notes, organized in sections.
              Loose binder.

File 1972   **CS 330 lab slides, vol. 1 [file   2of 2].** - [1981?].
              Contents: transparencies for lab notes, organized in sections.
              Loose binder.

File 1973   **CS 330 lab slides, vol. 2 [file   1 of 2].** - [1981?].
              Contents: transparencies for lab notes, organized in sections.
              Loose binder.

File 1974   **CS 330 lab slides, vol. 2 [file   2of 2].** - [1981?].
              Contents: transparencies for lab notes, organized in sections.
              Loose binder.

File 1975   **CS 330 programmes, sample outputs, documentation, August 31, 1981 / R.V.
              Klassen, C.S.G.** - 1981.
              Contents: course materials.
              Loose binder.

File 1976   **CS 330.** - 1982.
              Contents: transparencies or acetate masters, assignments, transparencies for
              lectures, ms. notes by J. Wesley Graham, more WBasic transparencies.
              Untitled folder.

File 1977   **CS 330.** - [1982?].
              Contents: course notes on transparencies.
              Untitled folder.

File 1978   **CS 330.** - [1982?].
              Contents: course notes (typescript and figures) on transparencies.
              Untitled folder.

File 1979   **CS 330 : automated bookeeping system.** - 1982.
              Contents: course manual in book form.
              Loose manual.

File 1980   **[CS 330] : Co-operating sequential processes : journal and summaries, 10-12.** -
              [1982?].
              Contents: transparencies 10-12 for CS 330.

File 1981   **CS 330 : data-directed design of   programs.** - 1982.
            Contents: course materials. Includes correspondence re copyright permission, set of course notes, ms. diagrams.

File 1982   **Data-directed design ofprograms (Prof. van Emden).** - [1982?].
            Contents: course notes written on transparencies.

File 1983   **CS 330 : introduction to bookeeping.** - [1982?].
            Contents: course notes on transparencies.
            Untitled.
            Loose acetates.

File 1984   **CS 330 : introduction to bookeeping.** - 1982-1983.
            Contents: course materials, mostly on transparencies. Includes transparencies probably written on during classes. Includes midterm course marks.
            Untitled folder.
            Restricted.

File 1985   **[CS 330] : Print journal, 1-5.** - [1982?].
            Contents: transparencies p. 1-5 for CS 330.

File 1986   **CS 330 : problem sets.** - 1982.
            Contents: transparencies or acetate masters for problem sets.
            Untitled folder.

File 1987   **[CS 330] : Real-time systems transparencies.** - [1982?].
            Contents: numbered transparencies, masters. For CS 330?
            Untitled folder.

File 1988   **[CS 330] : Sales journal (COBOL), 62-74.** - [1982?].
            Contents: transparencies p. 62-74 for CS 330.

File 1989   **[CS 330] Summarize journal accounting records, 6-9.** - [1982?].
            Contents: transparencies p. 6-9 for CS 330.

File 1990   **CS 330 : Spring 1982.** - 1982.
            Contents: course notes, examination masters, worksheets. Course by Martin van Emden.
            Untitled folder.

File 1991   **CS 330 : Winter 1982.** - 1982.
            Contents: course materials, including problem sets. Includes ms. pages by J. Wesley Graham, transparencies and print copies of course materials. Course manual is "Data directed design of programs," included here on transparencies.
            Untitled.
            Loose materials.

File 1992   **CS 330 : Winter 1982.** - 1982.
            Contents: ms. mid-term examination.
            Untitled.
            Loose materials.

File 1993   **CS 330 Winter 1982 : accounting   system.** - 1981-1982.
            Contents: course notes.

File 1994   **CS 330 : Winter 1982 : activities in organization.** - 1982.
            Contents: course materials. Contains printing master for one handout.

File 1995   **CS 330 : Winter 1982 : class list, T.A. list, miscellaneous information.** - 1982.
            Restricted.

File 1996   **CS 330 : Winter 1982 : course marks.** - 1982.
            Contents: class list, grade reporting lists, student correspondence.
            Untitled folder.
            Restricted.

File 1997   **CS 330 : Winter 1982 : direct access.** - 1982.
            Contents: course materials. Contains printing masters of notes.

File 1998   **CS 330 : Winter 1982 : final,** - 1982.
Contents: final examination.
Untitled loose papers.

File 1999   **CS 330 : Winter 1982 : final course marks, class list.** - 1982.
Contents: grade reporting list.
Restricted.

File 2000   **CS 330 : Winter 1982 : introduction to bookkeeping.** - 1982.
Contents: course materials. Contains one handout.

File 2001   **CS 330 : Winter 1982 : mid-term,   end of term tests.** - 1982.
Contents: course materials. Contains printing masters of examinations.

File 2002   **CS 330 : Winter 1982 : problem sets : project.** - 1982.
Contents: course materials. Contains printing masters.

File 2003   **CS 330 : Winter 1982 : real time.** - 1982.
Contents: course materials. Contains printing masters of notes.

File 2004   **CS 330 : Winter 1982 : Waterloo BASIC examples.** - 1982.
Contents: course materials. Contains masters for overhead transparencies.

File 2005   **[CS 330 : Winter 1982] : Waterloo Basic.** - 1982.
Contents: loose transparencies, notes [for CS 330?].
Untitled.
Loose transparencies.

File 2006   **CS 330 : accounting masters : 01/83.** - 1983.
Contents: handouts, original and photocopy.

File 2007   **[CS 330] : Basic accounting package : preliminary reference manual, June 22, 1983.** - 1983.
Contents: computer printout of manual (for CS 330?).
Loose printout.

File 2008   **CS 330 : Spring 1983.** - 1978-1983.
Contents: course materials. Includes examination masters, grade reporting lists, student appeals and re-writes, course evaluations, memoranda, ms. notes.
Restricted.

File 2009   **CS 330 : Spring 1983.** - 1983.
Contents: examination master, transparencies.
Untitled folder.

File 2010   **CS 330 : Spring 1983.** - 1983.
Contents: examination masters.
Untitled.
Loose papers.

File 2011   **CS 330.** - 1984.
Contents: tutorials for CS 330. Consists of an untitled printout, 2 copies.
Untitled.
Loose printouts.

File 2012   **CS 335 : Winter 1990.** - 1990.
Contents: final examination.
Untitled.
Loose papers.

File 2013   **CS 335 : Winter 1990 [teaching   file].** - 1990.
Restricted.

File 2014   **CS 432 : Fall 1988 : handouts and   assignments.** - 1988.
Contents: handouts and assignments used in teaching.

File 2015   **CS 432 : Fall 1988 : material Vicky Hall.** - 1988.
Contents: transparencies, diskettes of teaching materials.
Contains 4 diskettes.

File 2016   **CS 432 : Fall 1988 : students' assignments.** - 1988.
        Contents: marked assignments.
        Restricted.

File 2017   **CS 432 : Fall 1988 [teaching file].** - 1988.
        Restricted.

File 2018   **CS 432 : Fall 1988 : Vicky's material.** - 1988.
        Contents: transparencies.

File 2019   **CS 432 : midterms and finals [examination masters].** - 1988.
        Binder, loose.

File 2020   **CS 448 : Fall 1993 [teaching file] (file 1 of 2).** - 1993.
        Contents: grade reporting lists, individual students' projects (marked), course notes, handouts, examination candidates' cards, e-mail, memoranda.
        Includes diskette labelled CS 448/648 F93 Cindy's.
        Restricted.

File 2021   **CS 448 : Fall 1993 [teaching file] (file 2 of 2).** - 1993.
        Contents: grade reporting lists, individual students' projects (marked), course notes, handouts, examination candidates' cards, e-mail, memoranda.
        Includes diskette labelled CS 448/648 F93 Cindy's.
        Restricted.

File 2022   **CS 448/648.** - 1993.
        Contents: material relating to teaching of CS 448/648. Consists primarily of J. Wesley Graham ms. notes, handouts from Winter 1993.
        Untitled folder.
        Restricted.

File 2023   **CS 448/648.** - 1993-1994.
        Contents: loose papers relating to teaching of CS 448/648 Fall 1993, Winter 1994. Contains individual students' assignments and examinations (marked), handouts including assignments, solutions and examinations, e-mail, J. Wesley Graham ms. notes.
        Untitled
        Loose papers.
        Restricted.

File 2024   **CS 448/648 : Fall 1993.** - 1993.
        Contents: material relating to teaching of CS 448/648, including transparencies. Contains course information and handouts, photocopied lecture notes, J. Wesley Graham ms. notes, working papers.
        Untitled folder.

File 2025   **CS 448/648 : Fall 1993.** - 1993.
        Contents: one course notes manual by P.-A. Larson, "Introduction to database management".
        Loose item.

File 2026   **CS 448/648 : Fall 1993.** - 1993.
        Contents: one course notes manual by P.-A. Larson, "Introduction to database management".

File 2027   **CS 448/648 : Fall 1993.** - 1993.
        Contents: one course notes manual by P.-A. Larson, "Introduction to database management".
        Loose item.

File 2028   **CS 448/648 : Fall 1993.** - 1993.
        Contents: material relating to teaching of CS 448/648. Contains ms. notes, grade list.
        Restricted.

File 2029   **CS 448/648, Fall 1993 : course   evaluation questionnaires.** - 1993.
        Contents: completed course evaluation sheets.

File 2030   **CS 448/648 : Fall 1993 : transparencies [file 1 of 2].** - 1993.
        Contents: transparencies for course notes manual by P.-A. Larson.

File 2031   **CS 448/648 : Fall 1993 : transparencies [file 2 of 2].** - 1993.
        Contents: transparencies for course notes manual by P.-A. Larson.

File 2032   **CS 448/648 : Winter 1994.** - 1994.
    Contents: material relating to teaching of CS 448/648, including transparencies.
Contains course information and handouts, working papers.
    Untitled folder.

File 2033   **CS 448/648 : Winter 1994.** - 1994.
    Contents: one course notes manual by J.W. Graham.
    Loose item.

File 2034   **CS 448/648 : Winter 1994.** - 1994.
    Contents: material relating to teaching of CS 448/648. Contains assignment
handouts, examinations, J. Wesley Graham ms. notes, working papers.

File 2035   **CS 448/648 : Winter 1994.** - 1994.
    Contents: material relating to teaching of CS 448/648. Contains course information,
assignment handouts, examinations, some student projects.
    Restricted.

File 2036   **CS 448/648, Winter 1994 : course   evaluation questionnaires.** - 1994.
    Contents: completed course evaluation sheets.

File 2037   **CS 482.** - 1986.
    Contents: one package of printed course notes.
    Untitled folder.

File 2038   **CS 740 : Fall 1977.** - 1977.
    Contents: grade reporting lists.
    Restricted.

File 2039   **CS 740 : assignments.** - 1978.
    Contents: original assignments by students.
    Untitled folder.
    Restricted.

File 2040   **CS 740 : assignments.** - 1978.
    Contents: original assignments by students.
    Untitled folder.
    Restricted.

File 2041   **CS 740 : assignments.** - 1978.
    Contents: original assignments by students.
    Loose papers.
    Restricted.

File 2042   **CS 740 : assignments.** - 1978.
    Contents: original assignments by students.
    Loose papers.
    Restricted.

File 2043   **CS 740 : assignments : Antonio Salterain.** - 1978.
    Contents: original assignments by student.
    Loose envelope.
    Restricted.

File 2044   **CS 740 : assignments : Edward Bulman.** - 1978.
    Contents: original assignments by student.
    Loose envelope.
    Restricted.

File 2045   **CS 740 : assignments : Esmond Ng,   spring 1978.** - 1978.
    Contents: original assignments by student.
    Restricted.

File 2046   **CS 740 : assignments : F. David   Boswell.** - 1978.
    Contents: original assignments by student.
    Restricted.

File 2047   **CS 740 : assignments : Jean Luc   Richier.** - 1978.
    Contents: original assignments by student.
    Loose envelope and papers.
    Restricted.

File 2048   **CS 740 : assignments Spring 78 : K. Y. Fong.** - 1978.
              Contents: original assignments by student.
              Loose papers.
              Restricted.

File 2049   **CS 740 : assignments Spring term : Chan.** - 1978.
              Contents: original assignments by student.
              Loose envelope.
              Restricted.

File 2050   **CS 740 : assignments : Teresa Lee.** - 1978.
              Contents: original assignments by student.
              Loose report.
              Restricted.

File 2051   **CS 740 : assignments : W.M. Ling.** - 1978.
              Contents: original assignments by student.
              Restricted.

File 2052   **CS 740 : exercises : Hector J. Hernandez-Lopez.** - 1978.
              Contents: original assignments by student.
              Restricted.

File 2053   **CS 740 : exercises : Robert Biddle.** - 1978.
              Contents: original assignments by student.
              Loose papers.
              Restricted.

File 2054   **CS 740 : grades, students.** - 1978.
              Contents: ms. class list with marks, individual personal information sheets written by
              each student.
              Untitled folder.
              Restricted.

File 2055   **CS 740 : midterm exam : master and student papers.** - 1978.
              Contents: examination master, original examinations written by students.
              Restricted.

File 2056   **CS 740 : student assignments.** - 1978.
              Contents: original assignments by students.
              Untitled loose papers.
              Restricted.

File 2057   **CS 740 : Spring 1979.** - 1979.
              Contents: special cases.
              Restricted.

File 2058   **CS 740 : Spring 1979.** - 1979.
              Contents: grade reporting lists, examination masters.
              Restricted.

File 2059   **[Electrical Engineering 405A] : Switching algebra problems.** - [196-].
              Contents: problem sets for Electrical Engineering 405A.

File 2060   **Electrical Engineering 505 : Computer logic.** - [196-].
              Contents: lecture notes, calculations.

File 2061   **G-17 : Programming for digital computers : problems, January 1961.** - 1961.
              Contents: mimeograph problem sheet, IBM 650 soap program sheets, computer
              output, notes.

File 2062   **G-17 : Programming for digital computers : problems, March, 1961.** - 1961.
              Contents: mimeograph problem sheet, IBM 650 program sheets, computer output,
              notes.

File 2063   **G17 : Programming for digital computers, J.W. Graham.** - 1960-1961.
              Contents : envelope containing four sets of problems for G17, and two for Math 621.
              Loose.

File 2064   **G17 : Programming for digital computers : problems, December 1960, J.W. Graham, Mathematics.** - 1961.
                Contents : envelope containing set of problems for G17, with accompanying solution on coding sheets.
                Loose envelope.

File 2065   **G17 : Programming for digital computers : problems, February, 1961, J.W. Graham, Math.** - 1961.
                Contents : envelope containing 1 problem for G17, with accompanying solution on coding sheet.
                Loose envelope.

File 2066   **Grad course.** - [1961].
                Contents: ms. test, marks lists, ms. with title "Waterloo Interpretive Routine (WIR).

File 2067   **Grad course [file 1 of 10].** - [1963?].
                Contents: ms. notes and diagrams.

File 2068   **Grad course : writing compilers   [file 2 of 10].** - [1963?].
                Contents: ms. notes and diagrams.

File 2069   **Grad course : Polish prefix [file 3 of 10].** - [1961-1962].
                Contents: ms. notes and diagrams, two papers by J. Wesley Graham (ts. carbons): "Polish strings and algebraic compilers, March 1962," Polish prefix notation and its use in algebraic compilers, May 1961."

File 2070   **Grad course [file 4 of 10].** - [1963?].
                Contents: ms. notes and diagrams, list of students enrolled in Mathematics 621 computer programming course.

File 2071   **Grad course : interpreters [file   5 of 10].** - [1963?].
                Contents: ms. notes and diagrams, printed assignments for Mathematics 621 computer programming course, including "Preliminary specifications for the Waterloo Interpretive Routine (WIR).

File 2072   **Grad course : TRACE [file 6 of   10].** - [1963?].
                Contents: ms. notes and diagrams.

File 2073   **Grad course [file 7 of 10].** - [1963?].
                Contents: ms. notes and diagrams.

File 2074   **Grad course [file 8 of 10].** - [1963?].
                Contents: ms. notes and diagrams, computer printouts.

File 2075   **Grad course : problems, computer   programming [file 9 of 10].** - [1963?].
                Contents: ms. notes and diagrams, computer printouts.

File 2076   **Grad course : problems, computer   programming [file 10 of 10].** - [1963].
                Contents: ms. notes and diagrams, computer printouts.

File 2077   **[Grad course] : WIR [Waterloo Interpretive Routine].** - 1962.
                Contents: WIR specifications, student printouts, diagrams, etc.

File 2078   **Grad students.** - 1968.
                Contents: material relating to individual graduate students.
                Restricted.

File 2079   **Grad Students, 1969-1970.** - 1969-1970.
                Contents: material about individual graduate students. Includes grade reporting lists, memoranda, ms. notes, etc.
                Restricted.

File 2080   **Grad Students, 1970-1971.** - 1970-1971.
                Contents: material about individual graduate students and graduate teaching. Includes grade reporting lists, memoranda, ms. notes, etc.
                Restricted.

File 2081   **[Grad students] : Byce.** - 1969.
                 Contents: memorandum to J. Wesley Graham from J.F. Byce re status of individual
         graduate students.
                 Restricted.

File 2082   **[Grad students] : Mike Doyle.** - 1971-1973.
                 Contents: material relating to doctoral candidate M. Doyle, from thesis proposal to
         correspondence with J. Wesley Graham after his appointment as Computing Centre Director at
         the University of Manitoba. Includes reports on thesis by external examiners.
                 Restricted.

File 2083   **Graduate Students being advised, 1971.** - 1971.
                 Contents: material by and about individual graduate students and relating to graduate
         teaching. Includes ms. notes, memoranda, proposals, etc.
                 Restricted.

File 2084   **Keyboard simulations.** - [196-].
                 Contents: teaching aids? Two cardboard box-lid mock-ups of computer keyboards
         [data processing machines?]
                 Loose items.

File 2085   **Lecture notes.** - [1960].
                 Contents: ca. 200 p. ms. notes and calculations re graphs.
                 Untitled binder.

File 2086   **Lecture notes.** - 1960.
                 Contents: one untitled binder of notes. Given by J. Wesley Graham or taken by J.
         Wesley Graham?
                 Untitled.
                 Loose papers.

File 2087   **Linear representation of groups.** - [196-].
                 Contents: lecture notes, calculations.
                 Loose papers.

File 2088   **[Mathematics 4g] : Teaching 1961 : programming problems.** - 1961.
                 Contents: problem set for Applied Mathematics 4g: Numerical Analysis, November
         1961.
                 Loose papers.

File 2089   **Mathematics 72A.** - 1974.
                 Contents: Includes teaching material: transparencies for lectures, ms. notes.
         Includes memoranda, grade reports.
                 Restricted.

File 2090   **Mathematics 72A (all course   material) : WLU Fall 1972-Spring 1973.** - 1972-1973.
                 Contents: teaching file. Includes student grade reports, final marks, appeals,
         correspondence as well as assignment and examination masters, handouts, etc.
                 Restricted.

File 2091   **Mathematics 72A : Fall 1974 [file 1 of 2].** - 1974.
                 Contents: material in this folder is all labelled "Math 132B". Includes teaching
         material: handouts, problem sets, tutorials, examination masters, ms. notes, computer output.

File 2092   **Mathematics 72A : Fall 1974 [file 2 of 2].** - 1974.
                 Contents: Includes teaching material: handouts, problem sets, tutorials, examination
         masters, ms. notes, computer output.

File 2093   **[Mathematics 72A] : Overheads.** - [1972?].
                 Contents: transparencies for teaching, perhaps Math 72A.
                 Untitled binder.

File 2094   **Mathematics 72A : questionnaire :   J.W. Graham.** - 1972-1973.
                 Contents: questionnaires filled in by students.

File 2095   **Mathematics 72A : questionnaire :   R.H. Cooper.** - 1972-1973.
                 Contents: questionnaires filled in by students.

File 2096   **Mathematics 72A : questionnaire :   U.A. Dyck.** - 1972-1973.
                 Contents: questionnaires filled in by students.

File 2097 **Mathematics 102A.** - 1959-1960.
Contents: test masters, notes, Math 102A, 103A, 202A. Includes 1959 Calculus test.

File 2098 **Mathematics : 102B [calculus].** - 1959.
Contents: ms. lecture notes and examination drafts, final examination masters. This course later called Mathematics 130.

File 2099 **Mathematics 103A, 103B, 204B, 234.** - 1959-1960.
Contents: problem sets and examinations for courses taught at University of Waterloo. Untitled.
Loose papers.

File 2100 **Mathematics 122, summer 1975 :   course file.** - 1975.
Contents: one sheet of information on the Waterloo Student Editor.

File 2101 **Mathematics 132.** - [196-].
Contents: "An approach to solving M132 problems," by D.A. Gordon.
Loose paper.

File 2102 **Mathematics 132.** - [196-].
Contents: ms. notes, printed laboratory assignments.

File 2103 **Mathematics 132 : numerical methods : term test.** - [196-].
Contents: test masters, ms. notes, on marking scheme.
Loose papers

File 2104 **[Mathematics 132] : SPECTRE.** - [196-?].
Contents; ms. notes and programming, mimeograph pages, computer output. Math 132 exercise.
Loose papers.

File 2105 **Mathematics 132, 1970.** - 1969-1970.
Contents: material for instructors, including final examination.

File 2106 **Mathematics 132, 1970-1971 [file 1 of 3].** - 1970-1971.
Contents: teaching file with title "Mathematics 132, Math version, 1970-1971. Includes description of the course, problem sets, SPECTRE and FORTRAN problems, handouts and "Visual aids for An Introduction to Computer Science."

File 2107 **Mathematics 132, 1970-1971 [file 2 of 3].** - 1970-1971.
Contents: teaching file with title "Mathematics 132, Math version, 1970-1971. Includes description of the course, problem sets, SPECTRE and FORTRAN problems, handouts and "Visual aids for An Introduction to Computer Science."

File 2108 **Mathematics 132, 1970-1971 [file 3 of 3].** - 1970-1971.
Contents: teaching file with title "Mathematics 132, Math version, 1970-1971. Includes description of the course, problem sets, SPECTRE and FORTRAN problems, handouts and "Visual aids for An Introduction to Computer Science."

File 2109 **Mathematics 132 A : Fall 1972 :   all course material [file 1 of 3].** - 1972.
Contents: teaching file: material on planning content of the course, handouts, examination masters, ms. notes, computer output.

File 2110 **Mathematics 132 A : Fall 1972 :   all course material [file 2 of 3].** - 1972.
Contents: material on planning content of the course, handouts, examination masters, ms. notes, computer output.

File 2111 **Mathematics 132 A : Fall 1972 :   all course material [file 3 of 3].** - 1972.
Contents: material on planning content of the course, handouts, examination masters, ms. notes, computer output.

File 2112 **[Mathematics 132 A] : tutorials   and programming laboratories.** - 1974.
Contents: tutorials for Math 132 A, Fall 1974, spiral-bound, with final examination inserted.
Loose publication.

File 2113 **Mathematics 132 A : Fall 1974 and Winter 1975 [file 1 of 3].** - 1974-1975.
Contents: teaching file: handouts, examination masters, ms. notes, computer output. Includes final grade reporting lists.
Restricted.

File 2114   **Mathematics 132 A : Fall 1974 and Winter 1975 [file 2 of 3].** - 1974-1975.
        Contents: teaching file: handouts, examination masters, ms. notes, computer output. Includes final grade reporting lists.
        Restricted.

File 2115   **Mathematics 132 A : Fall 1974 and Winter 1975 [file 3 of 3].** - 1974-1975.
        Contents: teaching file: handouts, examination masters, ms. notes, computer output. Includes final grade reporting lists.
        Restricted.

File 2116   **Mathematics 132 A : Fall 1975.** - 1975.
        Contents: teaching file: handouts, problem sets, examination masters, ms. notes, computer output, transparencies of lecture material. Includes grade reporting lists, special cases, student information.
        Restricted.

File 2117   **Mathematics 132 A : Winter 1976.** - 1976.
        Contents: teaching file: examination masters, ms. notes, computer output. Includes grade reporting lists, special cases, student information.
        Restricted.

File 2118   **[Mathematics 132A] : Honeywell COBOL.** - 1976.
        Contents: computer printouts of Math 132A Honeywell documentation done by students..

File 2119   **[Mathematics 132A] : VERIFY.** - 1975.
        Contents: material relating to VERIFY, a Math 132A student program verifier. Includes computer printouts, ms. description of program.

File 2120   **[Mathematics] 202A : calculus lecture notes.** - [1959-1960?].
        Contents: ms. notes and calculations.

File 2121   **[Mathematics 202A] : calculus : test papers.** - [1959?].

File 2122   **Mathematics : 202B [calculus].** - 1959-1960.
        Contents: lecture notes, final examination masters.
        Loose papers.

File 2123   **Mathematics 202B : calculus.** - [1960?].
        Contents: ms. notes, course outline.
        Untitled folder.

File 2124   **Mathematics 202B [calculus].** - [1960?].
        Contents: examination ms.
        Loose papers.

File 2125   **Mathematics 202B [calculus].** - [1960?].
        Contents: problem set 1.
        Loose papers.

File 2126   **[Mathematics 203] : 1st year calc. labs.** - 1959.
        Contents: material relating to a course in numerical methods, Mathematics 203 and 203B, containing printed sets of labs, some ms. notes, and a product booklet with operating instructions for the Monroe CSA Model Automatic Adding Calculator.

File 2127   **Mathematics 203A : numerical methods** - [1960?].
        Contents: printed handoutsd for labs 1-3.
        Loose papers.

File 2128   **Mathematics 203A : numerical methods : laboratory number 1.** - [1960?].
        Contents: lab. master, ms. notes and calculations.
        Loose papers.

File 2129   **Mathematics 233.** - 1960.
        Contents: 6 p. ts. memorandum, from R.G. Stanton to D.A. Sprott.
        Loose papers.

File 2130   **Mathematics 234 : problems.** - 1958-1959.
        Contents: problem sets and final examination for Mathematics 234, taught at Waterloo College.

File 2131   **Mathematics 235 : Actuarial Mathematics, Post-degree Programme for Secondary
             School Teachers.** - 1963.
             *Contents: input and output sheets from 1620 programming system, Wes Graham ms.
      notes, exam masters (ms. original and ts. copy) July 19, 1963, corres., class list, list of
      courses and timetable for Post-degree Programme, ca. 150 p. of ms. notes and calculations.*
             Untitled folder.

File 2132   **Mathematics 238.** - 1965.
             *Contents: lecture notes (ms. originals) and problem sets for Mathematics 238, Fall
      1965*

File 2133   **Mathematics 238.** - 1966.
             Contents: final and supplemental examination masters, ms. draft by J.W.G.

File 2134   **Mathematics 238 : copies of tests.** - 1966.
             Contents: final examination for Mathematics 238.

File 2135   **[Mathematics 238] : Hull's book.** - [196-?].
             *Contents: untitled duo-tang containing photocopy of ts. by T.E. Hull for Mathematics
      238 course, concerning computer programming.*
             Loose duo-tang.
      Added Entries: Hull, T.E.

File 2136   **[Mathematics 238] : Spectre problems.** - [1966?].
             Contents: problem set for Spectre, possibly Mathematics 238, 1966.
             Loose papers.

File 2137   **Mathematics 240B, C.** - 1970.
             Contents: Assignment #2.
             Loose papers.
      Added Entries: Brillinger, Peter

File 2138   **[Mathematics 240B] : Introduction to non-numeric computation : notes for
             Mathematics 240B / Cohen, Doron J.** - 1970.
             *Contents: Set of notes by Doron J. Cohen and Peter Brillinger for an intermediate
      course in data structures and applications in computer science.*
             Publication.
      Added Entries: Cohen, Doron J. Brillinger, Peter

File 2139   **Mathematics 302A.** - [1960?].
             Contents: printed problem sets.
             Loose papers.

File 2140   **Mathematics 302A : lecture notes.** - 1960.
             *Contents: ms. lecture notes and examination drafts, printed problem sets and
      examinations.*

File 2141   **Mathematics 334.** - 1963.
             Contents: one printed test paper.
             Loose papers.

File 2142   **Mathematics 334, 363, 501 :student examinations and marks** - 1960-1961.
             *Contents: examination booklets from Waterloo University College and University of
      Waterloo.*
             Loose papers.

File 2143   **[Mathematics 334] : lecture notes.** - 1963.
             *Contents: material relating to Mathematics 334, including lecture notes, tests,
      problems set and examinations. Includes ms. drafts, notes, student tests, etc.*
             Restricted.

File 2144   **Mathematics 399, 1975 : courses file.** - 1977.
             Contents: one reference by J. Wesley Graham for a former student in this class.

File 2145   **Mathematics 501A.** - 1962.
             Contents: ms. lecture notes and calculations, printed problems.

File 2146   **Mathematics 501B.** - 1961.
                   Contents: ms. lecture notes and calculations, printed problems in probability and
          statistics. Includes Engineering Final Exam, Sept. 1961, student grade reporting lists.
                   Restricted.

File 2147   **[Mathematics 505/621] : Computer   programming course materials.** - [196-].
                   Contents: loose materials on programming, including problems and handouts for
          Math 505 and Math 621, Programming for digital computers.
                   Untitled.
                   Loose papers.

File 2148   **[Mathematics 505] : Computer programming : Math 505.** - [1959?].
                   Contents: ca. 40 p. ms. notes.

File 2149   **Mathematics 601 : numerical analysis seminars (file 1 of 2).** - 1963.
                   Contents: eleven seminar papers bound together with a table of contents.

File 2150   **Mathematics 601 : numerical analysis seminars (file 2 of 2).** - 1963.
                   Contents: eleven seminar papers bound together with a table of contents.

File 2151   **Mathematics 621 : computer programming.** - 1963-1964.
                   Contents: materials prepared for teaching a course in computer programming.
                   Untitled.
                   Loose papers.

File 2152   **Mathematics 631.** - 1964.
                   Contents: student papers for Math 631, 1964.
                   Untitled.
                   Loose papers.

File 2153   **Mathematics 631.** - 1966.
                   Contents: test papers, Feb. 1966.
                   Untitled.
                   Loose papers.

File 2154   **Mathematics 631 : advanced computer techniques.** - 1966.
                   Contents: handouts and test papers, Jan. 1966.
                   Untitled folder.

File 2155   **Mathematics 893.** - 1970.
                   Contents: handouts, examinations, transparencies for teaching. This course used
          WATFILE.
                   Untitled folder.

File 2156   **Mathematics 893, 1971-1972.** - 1971-1972.
                   Contents: lecture notes, term test.
                   Untitled.
                   Loose papers.

File 2157   **Mathematics 893 problems : Roger   C. Lauzon.** - 1970.
                   Contents: student file.
                   Restricted.

File 2158   **Mathematics 895 : computational   methods for scientists and engineers.** - 1967-1968.
                   Contents: teaching file. Includes student grade reports, correspondence as well as
          assignment and examination masters, handouts, etc.
                   Untitled.
                   Loose papers.
                   Restricted.

File 2159   **Mathematics course materials.** - [195-].
                   Contents: loose materials: "Graduate courses in mathematics" and "Fourier series"
                   Untitled.
                   Loose papers.

File 2160   **[Mathematics :] courses : miscellaneous information.** - 1976.
                   Contents: Math Faculty policy on submission of marks.

File 2161   **[Mathematics] : Exams.** - 1959-1960.
              Contents: copies of term, final and supplemental examinations for mathematics courses taught at University of Waterloo and University of Western Ontario (Waterloo College). Includes copies of the exams with some ms. drafts.

File 2162   **Mathematics : lecture notes.** - [196-].
              Contents: ms. lecture notes, printed problem sets and examinations for Mathematics 132, 302a, 302B, 334.

File 2163   **[Mathematics] : statistics general.** - [196-].
              Contents: ms. notes.

File 2164   **Sorting : readings [file 1 of 3].** - [19--].
              Contents: course package of articles on sorting with a table of contents. Consists of masters for reproduction.
              Untitled.
              Loose papers.

File 2165   **Sorting : readings [file 2 of 3].** - [19--].
              Contents: course package of articles on sorting with a table of contents. Consists of masters for reproduction.
              Untitled.
              Loose papers.

File 2166a   **Sorting : readings [file 3 of 3].** - [19--].
              Contents: course package of articles on sorting with a table of contents. Consists of masters for reproduction.
              Untitled.
              Loose papers.

File 2166b   **SPECTRE problems : S.1-S.5.** - [197-].

File 2166c   **SPECTRE problems : S.6-S.7.** - [197-].

File 2166d   **SPECTRE problems : S.8-S.10.** - [197-].

File 2166e   **SPECTRE problems : S.11-S.13.** - [197-].

File 2167   **[Students] : Helms, H.J. : corrrespondence.** - 1971.
              Contents: material about a recruiting programme at Northern Europe University Computing Centre. Includes references for individuals.
              Restricted.

File 2168   **[Students] : student reference.** - 1985.
              Contents: photocopy of one research application.

File 2169   **[Students] : Sun Hae Oh, Math #3044.** - 1970.
              Contents: individual student file.
              Restricted.

File 2170   **Teaching assignments from Fall   1981.** - 1981.
              Contents: list of J. Wesley Graham teaching assignments.

File 2171   **[Teaching] : Computer Science : preferences for teaching.** - 1986.
              Contents: forms filled in by J. Wesley Graham re teaching preferences.

File 2172   **[Teaching] : Department of Computer Science : teaching assignments.** - 1985-1993.
              Contents: teaching assignment lists.
              Loose papers.

File 2173   **Tensors.** - [1960?].
              Contents: 3 p. ms. notes and calculations.
              Loose papers.

File 2174   **Weerheim, Adrian.** - 1976.
              Contents: copy of one letter to potential Ph.D. Candidate, computer artifacts.

Series 5.2 :   UW: Teaching: Workshops

File 0   **UW : teaching : workshops.** - 1969-1992.
                                Series consists of material relating to off-campus workshops ansd seminars on structured programming, data directed design and COBOL/WATBOLdeveloped and presented by J. Wesley Graham and others. These workshops were generally sposored by Structured Computing Systems Ltd. or by WATFAC. The files contain material relating to developing the content of the workshops, course materials and advertising. Includes computer output, correspondence, ms. notes, transparencies, manuals, etc.
                                Title from content of the series.

File 2175   **B.C. TEL (Brirish Columbia Telephone Company), 1985.** - 1985.
                                Contents: material for Data Directed design course given by J.W.G. Oct. 7-9, 1985, for B.C. Tel..

File 2176   **Bell : July 3, 1974.** - 1974.
                                Contents: material relating to workshop arrangements.

File 2177   **COBOL course : Winter, 1972.** - 1972.
                                Contents: memoranda, lecture outlines, sample printouts for introductory COBOL lectures.

File 2178   **Cobol : presentations : slide presentations.** - 1971-1972.
                                Contents: material for lectures. Includes sets of overhead transparencies.

File 2179   **COBOL sorting.** - 1974.
                                Contents: computer output, ms. notes.

File 2180   **Computer cards : exec WATBOL.** - [197-].
                                Contents: loose computer cards.
                                Loose cards.

File 2181   **Data directed design.** - 1977.
                                Contents: material about the control-break problem. Includes correspondence, ts. and coding sheets. (Easy-go Credit Card Company).

File 2182   **Data directed design research.** - [197-].
                                Contents: ms. notes, printouts.

File 2183   **Data directed design research.** - 1979.
                                Contents: material relating to data directed design course, including ms. notes, computer output, correspondence.

File 2184   **Database System by Computer Systems Group : structured programming workshop problem.** - 1974.
                                Contents: material re designing an information retrieval system. Ts. with computer output marked for possible use in workshops.

File 2185   **DDD [data directed design] notes.** - [19--?].
                                Contents: ms. notes by J. Wesley Graham on data directed design.

File 2186   **Introduction to basic principles of structured programming.** - [197-]. - 271 p.
                                Title from t.p. Cover is a WATCOM Publications cover with title "Data directed design". Publication.

File 2187   **Introduction to basic principles of structured programming.** - [197-?].
                                Contents: spiral-bound copy of 30-1.

File 2188   **Introduction to basic principles of structured programming.** - [197-?].
                                Contents: ts. (photocopy, 128 p.).
                                Untitled folder.

File 2189   **Introduction to basic principles of structured programming and top-down design.** - [197-?].
                                Contents: spiral-bound pages, ms. notes inserted.
                                Untitled.
                                Loose publication.

File 2190   **Introduction to basic principles of structured programming and top-down design.** - [197-?].
> *Contents: ca. 200 p. of photocopies.*
> *Loose papers, formerly in three-ring binder.*

File 2191   **"Jackson" invoice.** - [19--].
> *Contents: sheets pasted up on 3-ring paper. The first item in the folder says "Jackson"*
> *invoice.*
> *Untitled folder.*

File 2192   **Large masters : COBOL version.** - 1975.
> *Contents: masters for transparencies.*

File 2193   **Large masters : PL/1 version.** - [197-].
> *Contents: masters for transparencies.*

File 2194   **Mailing lists.** - 1979-1981.
> *Contents: ms notes, ts. lisrts.*

File 2195   **Master slides for overhead : COBOL text.** - [197-?].
> *Contents: transparency masters [paper].*

File 2196   **Masters.** - [198-?].
> *Contents: paper masters of diagrams.*

File 2197   **[Masters] : 2 and 3 day COBOL solutions : A2, A3a, A3b, A4, A5, A6, B1, B2, B4, B5, C1, C2, C3.** - [197-].
> *Contents: masters, pasted up.*

File 2198   **Masters : instructors' workshop : "Notes on structured programming".** - 1975.
> *Contents: masters for photocopying sets of pages.*
> *Loose papers*

File 2199   **Masters : instructors' workshop : "Utilities".** - 1975.
> *Contents: masters for photocopying sets of pages.*
> *Loose papers*

File 2200   **Masters [structured programming].** - [198-].
> *Contents: paper masters for overhead transparencies.*
> *Untitled folder.*

File 2201   **Masters : workshops.** - [197-].
> *Contents: masters for photocopying sets of pages.*
> *Untitled folder.*

File 2202   **Masters : workshops : miscellaneous and masters, COBOL/WATBOL instructors' workshop.** - [197-].
> *Contents: masters for photocopying sets of pages.*

File 2203   **Masters : workshops : miscellaneous and masters, COBOL/WATBOL instructors' workshop.** - 1975.
> *Contents: masters for photocopying sets of pages.*

File 2204   **Notes on structured programming.** - [1975?].
> *Loose publication.*

File 2205   **Notes on structured programming and top-down design.** - 1975.
> *Contents: paste-ups: "One day course in top-down design and structured*
> *programming" presented by WATFAC.*
> *Untitled folder.*

File 2206   **A one day course in data-directed design.** - [197-?].
> *Contents: course package, by "Structured Computing Systems Ltd."*
> *Loose course packages.*

File 2207   **A one-day seminar on data-directed design.** - [1977].
> *Contents: seminar advertising for course to be given by J.W. Graham.*
> *Untitled folder.*
> *Loose papers.*

File 2208   **Overheads : COBOL programs for A12A.**   - [197-].
         Contents: transparencies.

File 2209   **Overheads : control break slides : COBOL programs B11, A12, A2, A3A, A3B, A4, A5, A6, B1, B2, B3, B4, B5, C1, C2, C3.**   - [197-].
         Contents: transparencies.

File 2210   **Overheads : PL/1.**   - [197-].
         Contents: transparencies.

File 2211   **[PL/1?] : A1.**   - [197-].
         Contents: Contents: masters.

File 2212   **[PL/1?] : A2.**   - [197-].
         Contents: masters, pasted up.

File 2213   **[PL/1?] : A2 : staff file.**   - [197-].
         Contents: masters, pasted up.

File 2214   **[PL/1?] : A3(a).**   - [197-].
         Contents: masters.

File 2215   **[PL/1?] : A3(b).**   - [197-].
         Contents: masters.

File 2216   **[PL/1?] : A3(b), modularized.**   - [197-].
         Contents: masters.

File 2217   **[PL/1?] : A4(c), modularized.**   - [197-].
         Contents: masters.

File 2218   **[PL/1?] : A5.**   - [197-].
         Contents: masters.

File 2219   **PL/1 programs : A2, A3a, A4, A5, A6, A3b**   - [197-].
         Contents: masters, pasted up.

File 2220   **PL/1 workshop notes.**   - 1980.
         Contents: material re WATFIV-S, WATSOFT, WATFAC agreements.

File 2221   **Programs, etc. : workshops : COBOL/WATBOL instructors' workshop.**   - 1974.
         Contents: computer output, ms. notes.

File 2222   **Programs : foils, PL/1.**   - [197-].
         Contents: masters for transparencies.

File 2223   **Programs : slides : COBOL.**   - [197-].
         Contents: masters for transparencies.

File 2224   **Reduced masters : COBOL version.**   - 1975.
         Contents: masters for transparencies.

File 2225   **Reduced masters : PL/1 version.**   - 1975.
         Contents: masters for transparencies.

File 2226   **Sample handouts.**   - 1978.

File 2227   **A seminar on data-directed design, J.W. Graham, December, 1977.**   - 1977.
         Contents: seminar package, by University of Waterloo Computer Systems Group.
         Loose papers.

File 2228   **A short course in structured programming.**   - 1974.
         Contents: Workbook published by WATFAC.
         Loose publication.

File 2229   **A short course in structured programming : xeroxes to make overheads.**   - 1974.
         Contents: photocopied pages, ms. notes re course in programming" presented by WATFAC.
         Untitled folder.

File 2230   **Structured articles.** - 1981.
                         Contents: photocopied articles. Information file.

File 2231   **Structured programming.** - 1969-1975.
                         *Contents: material relating to structured programming in general as well as to
                   structured programming workshops. Includes course description, problem sets, ms. notes,
                   computer output and several photocopied articles and papers by others.*

File 2232   **Structured programming.** - [19--].
                         *Contents: duo-tang of photocopied sheets with instructions, diagrams and computer
                   output.*
                         Untitled duo-tang.

File 2233   **Structured programming and top-down design : problem series A.** - [197-].
                         Contents: photocopied pages.
                         Loose papers.

File 2234   **Structured programming [file 1 of 2].** - 1973-1976.
                         *Contents: seminar notes by JWG and information package for the 1976 Annual
                   Seminar on Structured Design and Analysis, presented by the Canadian Information
                   Processing Society (Grand Valley Section). Includes ephemera and information for other
                   structured programming seminar offerings by Yourdon, Brandon Applied Systems and Institute
                   for Advanced Technology.*
                         Untitled
                         Loose papers.

File 2235   **Structured programming [file 2 of 2].** - 1973-1976.
                         *Contents: seminar notes by JWG and information package for the 1976 Annual
                   Seminar on Structured Design and Analysis, presented by the Canadian Information
                   Processing Society (Grand Valley Section). Includes ephemera and information for other
                   structured programming seminar offerings by Yourdon, Brandon Applied Systems and Institute
                   for Advanced Technology.*
                         Untitled
                         Loose papers.

File 2236   **Structured programming.** - 1973.
                         *Contents: one issue, _Datamation_ 19, no. 12 (Dec. 1973) on the "revolution in
                   programming". Includes several articles on structured programming.*
                         Title on folder: "Cellular radio phone."

File 2237   **Structured programming slides : introductory lecture : blank diagram forms.** - [197-].

File 2238   **Structured programming workshop.** - 1973-1974.
                         *Contents: material relating to courses given for high school teachers, 1973 and 1974.
                   Includes correspondence, masters for overhead transparencies, ephemera, ms. notes, problem
                   sets, list of participants.*

File 2239   **Structured programming workshops : overheads A.** - [197-?].
                         *Contents: transparencies to accompany text "Introduction to basic principles of
                   structured programming."*

File 2240   **Structured programming workshops : overheads B.** - [197-?].
                         *Contents: transparencies to accompany text "Introduction to basic principles of
                   structured programming."*

File 2241   **Structured programming workshops : overheads : backtracking.** - [197-?].
                         *Contents: transparencies to accompany text "Introduction to basic principles of
                   structured programming."*

File 2242   **Structured programming workshops : overheads C.** - [197-?].
                         *Contents: transparencies to accompany text "Introduction to basic principles of
                   structured programming."*

File 2243   **Structured programming workshops : overheads D.** - [197-?].
                         *Contents: transparencies to accompany text "Introduction to basic principles of
                   structured programming."*

File 2244   **Structured programming workshops : overheads D.** - [197-?].
                         *Contents: transparencies to accompany text "Introduction to basic principles of
                   structured programming."*

File 2245   **Structured programming workshops : overheads E.** - [197-?].
                        Contents: transparencies to accompany text "Introduction to basic principles of structured programming."

File 2246   **Structured programming workshops : overheads E.** - [197-?].
                        Contents: transparencies to accompany text "Introduction to basic principles of structured programming."

File 2247   **Structured programming workshops : overheads F.** - [197-?].
                        Contents: transparencies to accompany text "Introduction to basic principles of structured programming."

File 2248   **Structured programming workshops : overheads G.** - [197-?].
                        Contents: transparencies to accompany text "Introduction to basic principles of structured programming."

File 2249   **Structured programming workshops : overheads H.** - [197-?].
                        Contents: transparencies to accompany text "Introduction to basic principles of structured programming."

File 2250   **Structured programming workshops : overheads : Jackson example.** - [197-?].
                        Contents: transparencies to accompany text "Introduction to basic principles of structured programming."

File 2251   **Structured programming workshops : overheads : pages for preparing invoices.** - [197-?].
                        Contents: transparencies to accompany text "Introduction to basic principles of structured programming."

File 2252   **Structured programming workshops : overheads R.** - [197-?].
                        Contents: transparencies to accompany text "Introduction to basic principles of structured programming."

File 2253   **Structured programming workshops : overheads S.** - [197-?].
                        Contents: transparencies to accompany text "Introduction to basic principles of structured programming."

File 2254   **Structured programming workshops : overheads : top-down development.** - [197-?].
                        Contents: transparencies to accompany text "Introduction to basic principles of structured programming."

File 2255   **Structured query language.** - 1991-1992.
                        Contents: two course note booklets for short workshops, one for high school students held during Computer Science Days: Structured Query Language for Databases, the other for secondary school teachers: Introduction to relational databases using SQL.
                        Loose publications.

File 2256   **A three-day workshop in top-down design and structured programming, sponsored by WATFAC and the Rene Descartes Foundation, University of Waterloo.** - 1975.
                        Contents: ms. notes inserted.
                        Loose publication.

File 2257   **Transaction files : TRAN 03, TRAN 04.** - [197-].
                        Contents: paste-ups.
                        Untitled folder.

File 2258   **Workshop notes, SCS.** - [197-?].
                        Contents: Introduction to basic principles of structured programming and top-down design (ca. 181 leaves of photocopies).

File 2259   **Workshop on Structured Programming and Microcomputers : Secondary Education Review Project Symposium, Sept. 14-17, 1980.** - 1980.
                        Contents: material relating to a three day workshop for secondary school teachers. Consists of memorandum and course description sent out by J. Wesley Graham.
                        Untitled file.

File 2260   **Workshops in structured programming brochures.** - 1974.
                        Contents: ephemera: brochures for programming workshops and short courses held off-campus, sponsored by WATFAC.
                        Loose flyers.

File 2261   **Workshops : overheads** - [197-].
                 Contents: transparencies.
                 Untitled folder.

File 2262   **Workshops : overheads** - 1979.
                 Contents: loose transparencies.

File 2263   **Workshops, seminars.** - 1977.
                 Contents: material relating to seminars and workshops given by J. Wesley Graham.
                 Includes promotional flyer for "A one-day seminar on data-directed design," "A three-day
                 workshop in top-down design and structured programming," and packages of transparency
                 photocopies for "A seminar on data directed design, J.W. Graham, December, 1977."

Series 5.3 :   UW: Teaching: Theses Supervised

File 0   **UW : teaching : theses supervised.** - 1967-1980.
                 Series consists of copies of theses by indiviuals for whom J. Wesley Graham was
                 thesis supervisor.
                 Title from content of the series.
                 The series is arranged alphabetically by author of the thesis.

File 2264   **A secure implementation for the programming language Pascal / by F. David Boswell.**
                 - 1980.
                 Contents: Master of Mathematics thesis supervised by J. Wesley Graham.

File 2265   **Optimization techniques in physical data base design : a thesis presented to the**
                 University of Waterloo in partial fulfillment of the requirements for the
                 degree of Doctor of Philosophy in Computer Science / by Erich Bretholz. -
                 1980.
                 Publication, PhD thesis.

File 2266   **The numerical solution of unilateral equations / by Donald D. Cowan.** - [197?].
                 Contents: Ph.D. thesis supervised by G. Berman.

File 2267   **The effects of program behaviour on the design of storage hierarchies / by Michael**
                 S. Doyle. - 1972.
                 Contents: Ph.D. thesis supervised by J. Wesley Graham.

File 2268   **Some desirable characteristics of a query language for a non-programmer user / by**
                 Ramesh C. Gupta. - 1976.
                 Contents: Master of Mathematics thesis supervised by J. Wesley Graham.

File 2269   **Decision tables / H. Jill Harrison.** - 1976.
                 Contents: "Masters essay": photocopy of a hand-written essay.

File 2270   **An approach to the optimization of direct-access merge performance / by Pieter S.**
                 Kritzinger. - 1972.
                 Contents: Ph.D. thesis supervised by J. Wesley Graham.

File 2271   **A study of computer program structure / by Roy A. Maddux.** - 1979.
                 Contents: Ph.D. thesis supervised by J. Wesley Graham.

File 2272   **An approach to incremental compilation as appled to Waterloo BASIC / by K. Ian**
                 McPhee. - 1979.
                 Contents: Master of Mathematics thesis supervised by J. Wesley Graham.

File 2273   **CPS-SPECTRE : a conversational system simulating the SPECTRE computer on**
                 typewriter terminals / by Wilfried G. Probst. - 1969.
                 Contents: Master of Mathematics thesis supervised by J. Wesley Graham.

File 2274   **A system for teaching machine and assembly language programming using a graphic**
                 display / by Richard S.K. Shirley. - 1967.
                 Contents: Master of Mathematics thesis supervised by J. Wesley Graham.

File 2275   **A uniform file system / by A. Stephen Tepper.** - 1978.
                 Contents: ts. (computer output) of a Master's thesis.

File 2276   **An application of system design to information retrieval / by James W. Welch.** - 1969.
                 Contents: Master of Mathematics thesis supervised by J. Wesley Graham.

File 2277 **Towards the effective implementation of descriptive storage / by James W. Welch.** - 1974.
Contents: Ph.D. thesis supervised by J. Wesley Graham.

File 2278 **The effect of dynamic conditions on the storage utilization of B-trees / by Terence A. Wilkinson.** - 1974.
Contents: Master of Mathematics thesis supervised by J. Wesley Graham.