Expanding the Vision
Enhancing the Facilities at UW

Campaign Waterloo—Building a Talent Trust
The University of Waterloo is in the midst of the “quiet phase” of the largest fundraising campaign in its history, with a goal of raising $260 million by 2007 (UW’s 50th Anniversary). The impetus behind the campaign slogan “Building a Talent Trust” is to attract and retain the ‘best and the brightest’ faculty and students to Waterloo. Scholarships, fellowships and research chairs account for more than $150 million of the campaign goal.

School of Optometry Expansion
One of the largest projects for the Faculty of Science is raising money to expand the facilities of the School of Optometry. The current teaching facilities were designed and equipped to accommodate classes of fifty students. These facilities have served the School and the profession well, even though sixty students have been admitted annually for the past twenty-five years. The time has come to upgrade the teaching infrastructure so that we can provide contemporary resources and leading edge technology to cope with the litany of new challenges facing the School and the profession.

Expanding scope of optometric practice
The scope of Canadian optometric practice continues to expand in areas such as advanced diagnostics and therapeutic pharmaceuticals. UW must provide its graduates with suitable training and experience in these areas so they can flourish within the ever-evolving scope of contemporary practice. This requires additional facilities and new faculty with advanced expertise in areas that are currently under-represented.

Continuing education and skills upgrading
In addition to educating and training new optometrists, UW has a growing responsibility to provide continuing education and skills upgrading for veteran practitioners and foreign-trained optometrists seeking to practice in Canada. There are new demands for post degree training, and UW must provide courses for those seeking to continue their education.

Increased Enrolment
Over 250 highly talented Canadians are currently enrolled in optometry programs across the United States, paying tuitions that are many times those in Canada. A significant factor has been limited admission openings in Canada’s only English instruction optometry program. The School of Optometry plans to ramp up its undergraduate admissions to ninety students per year over the next six year period.

EXPANSION PLANS
$7.2 million will be required to complete a three story building addition and renovations that will include:

Larger, multimedia-equipped classrooms—three adequately sized classrooms are required where only one currently exists. Two new large classrooms will be built, equipped with multimedia presentation capabilities.

Relocation of the Museum of Vision Science—the Museum of Vision Science and Optometry is unique in Canada and boasts one of the best collections of its kind in North America. The collection continues to expand, causing much of the collection to be stored rather than displayed.

Expanded teaching labs and thirty computing workstations—computing resources are dramatically under-sized given the increasing demands for computer-based learning and practice. Fewer than fifteen computers are currently available for student use.

Other expansion plans include:
- Library expansion and relocation.
- Clinic modernization, including improved accessibility, upgraded equipment and re-designed patient examination and waiting rooms.
- A state-of-the-art ophthalmological service suite.

The histories of the Canadian optometric profession and its teaching institutions have been passionately intertwined for more than fifty years. Each sector has benefited significantly from the strengths of the others, but the greatest strides have been made when there is a concurrent desire to improve the verifiable quality of the profession. This requires a strong and viable University program partnered with a profession that is demonstrably dedicated to lifelong learning. The celebrated status of our current profession and our current schools is directly attributable to this harmony and to the unwavering support of our faculty and alumni. I look forward to your continued support as we strive to meet the needs of our evolving profession now and in the future.

Sincerely, Graham Strong
Continuous Wear Contact Lenses Seminars in UK — Dr. Kathy Dumbleton

Lyndon Jones and Kathy Dumbleton were invited to give a series of seminars, sponsored by CIBA Vision, around the United Kingdom in the Fall of 2001. In a hectic schedule, around 600 practitioners attended seminars across England and Scotland. The aim of the talks was to increase practitioner confidence in prescribing and managing continuous wear with silicone hydrogel contact lenses. The Centre for Contact Lens Research has been conducting clinical trials with this new generation of contact lens materials over the past ten years. Lyndon and Kathy were able to report results from these studies and provided practical advice in order that practitioners can feel more comfortable with the characteristics of these lenses and which of their patients can be safely and effectively fitted in clinical practice. The seminar series was well received and is to be repeated at a number of different venues in early 2002.

Canada Research Chair — Mark Eltis

Dr. Elizabeth Irving, an Assistant Professor with the School of Optometry, was recently awarded the Canada Research Chair in Animal Biology.

This five-year chair is targeted at researchers who are acknowledged by their peers as having the potential to lead in their fields. Dr. Irving’s research focuses on examining the influence of the environment on the development and growth of the eye. Ultimately her work may help doctors prevent or even reverse myopia. Affecting 30% of the North Americans population and reaching epidemic proportions in some Asian countries, myopia is an enormous economic burden on the health care system and a leading cause of legal blindness in the developed world.

A recipient of the Governor General’s Gold Medal and the Royal Society of Canada’s Alice Wilson Award, Dr. Irving has concentrated most of her research on ocular development and oculo-motor research. She is also affiliated with the Eye Research Institute of Canada in Toronto and with the Department of Ophthalmology at the University of Toronto. Dr. Irving also hopes to examine the relationship between eye movements, learning disorders and neurological anomalies in children. While it is well known that development affects the eye’s ability to move, the mechanism behind this principle remains a mystery. Not only will the Canada Research Chair make all this research possible but it will also help attract and fund graduate students and post-doctoral fellows from professional programs.
The University of Waterloo is pleased to announce that the UW President’s Golf Tournament, presented by Descartes Systems Group of Waterloo, is sold out for this year’s event. The second-year project, is a collaborative effort between the University of Waterloo Office of Alumni Affairs, the President’s Office and Department of Athletics, will take place June 3, 2002 at Blue Springs Golf Club in Acton, Ontario.

This premier event supports the University of Waterloo Athletics Excellence Fund, which in 2001 has assisted five teams and an athlete, who have carried the Waterloo banner with pride and are tremendous ambassadors for the University. The Men’s Soccer Team, Men’s and Women’s Cross Country Team, both represented Waterloo at nationals, while Women’s Field Hockey, Women’s Rugby captured silver medals at the national championships. Pole vaulter Dana Ellis, a member of the Waterloo Track & Field Team represented Canada at the World University Games in China.

The organizing committee is chaired by local businessman and UW alumnus Peter Paleczny, President, Able-One Systems. Paleczny is once again hoping to raise more than $40,000.00 for the “University of Waterloo Athletics Excellence Fund”. Only in its second year, the President’s Golf Tournament has become the largest fundraising effort for the UW Athletic Department.

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Optometry Faculty Undergrad Research Scholarships presented by Dr. Beth Irving (centre left).

Fall Awards Ceremony 2001

Dr. Strong (right) presents Dr. Harvey Kader an award for 10 years of service as a Part-time Clinical Associate.
The University of Waterloo School of Optometry is proud to announce our annual continuing education program for June 8 & 9, 2002. The weekend, returning to our traditional June scheduling, will feature two themes:

**EYE CARE IN AN AGING POPULATION**—Demographers, the media, public commentators and others have made the point that populations are aging and, in particular, North American populations. Life expectancy for North Americans increases each year by non-trivial increments of a month or more. You, as an optometrist, have no doubt noticed your patient population is aging. The conditions you see each day are now likely much different than when you first began practice.

**CONTEMPORARY ASSESSMENT AND TREATMENT OF REFRACTIVE ERROR**—Refractive error and its assessment and treatment, while the bread and butter and perhaps bedrock element of the profession of optometry, has nonetheless changed significantly. Coupled with an aging population, refractive error assessment and management has never been more important to your practice. So what is new, what do the demographics tell us, what do you need to know about the equipment, assessments and treatment? Our program will address all of these issues and more.

**PERSONAL INSTRUCTION WORKSHOPS: SPECIALIZED TECHNIQUE REFINEMENT**—Workshops will enable practitioners to develop proficiency in anterior or posterior segment techniques such as gonioscopy, fundus lens examinations and binocular indirect ophthalmoscopy (with or without scleral indentation).

Capacity is limited! Select “Anterior” or “Posterior” and register early. You will be contacted by the instructor to customize your personalized workshop.

At least 16 hours of continuing education will be presented over the 2 days. The workshop, should you opt for it, will be in place of 4 hours of the regular program.

| Regular program 2 days, 16 hours | $375 |
| Regular program per day, 8 hours | $200 |
| Regular program, 2 days, including one workshop | $775 |
| Personalized Workshops, each | $475 |
| Early registration discount | $25 |

The usual discount of 40% will apply for part-time clinical supervisors at the School taking regular program days. The discount cannot be extended to the workshops.

**TRADE SHOW**
On Saturday, June 8th, a trade show will be held on the first floor of the Eye Care Centre. A variety of exhibitors will be present including publishers and equipment suppliers. This will allow the delegates an opportunity to see and purchase various educational materials and equipment items.

**REGISTRATION**
Registration will be held Saturday, June 8th from 7:30-8:00 am in the Optometry Building, Room 306.

**For further information please contact**
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Saturday, June 8, 2002

**EYECARE AND AGING**
7:30-8:00 am
Registration & Continental Breakfast

8:00-8:15 am
Woodruff Lecture: Introduction

8:15-9:15 am
Woodruff Lecture: The Aging Population: Prevalence, Prevention, and Presbyopia
Dr. Mark Bullimore

9:15-9:45 am
Low vision management of early and late-stage, exudative and non-exudative ARM
Dr. Susan Leat

9:45-10:00 am
Vision and Driving—Changing Requirements
Dr. Ann Plotkin

10:00-10:15 am
Break

10:15-11:15 am
PolyPharmacy—Common Drug Therapies in the Aging Population and Interaction with Ocular Therapies
Dr. Michelle Senchyna

11:15-12 noon
Ocular Surface Disease: Contemporary Strategies
Dr. Lisa Prokopich

12 noon-2:00 pm
Lunch at Trade Show

2:00-2:30 pm
Glaucoma—The boomers are coming!
Dr. John Flanagan

2:30-3:30 pm
AMD—Then, Now and Maybe
Dr. Tom Sheidow

3:30-3:45 pm
Break

3:45-4:45 pm
Contemporary Cataract Surgery and Complications
Dr. Hugh Jellie

4:45-5:30 pm
Sight-threatening diabetic retinopathy—a no-brainer or a tough call?
Dr. Chris Hudson

8:00 pm
Bobier Lecture
Visual control of eye growth and the mystery of myopia.
Dr. Frank Schaeffel

Please join us for a wine and cheese reception following the Bobier Lecture.
Germany–Waterloo — by Dr. S. Leat

The School of Optometry has developed an association with the University of Applied Science, in Aalen, Germany in which optometry students from Aalen come to Waterloo for a 6-month period to undertake their undergraduate diploma thesis. This process has been ongoing since July 1999, when the first two students arrived at Waterloo. The program was initiated by Drs Tony Cullen and Lyndon Jones and the benefits of running such a program are mutual.

To date students have undertaken research in the laboratories of Lyndon Jones, Debbie Jones, Susan Leat and Trefford Simpson on topics ranging from visual acuity and contrast sensitivity in children to contact lens deposits and ocular sensitivity. Their research has resulted in several conference publications and they have been greatly appreciated as members of the laboratories of the Faculty members in Waterloo. Students gain the opportunity to undertake their research while obtaining an insight into Optometry and Vision Research in North America, with the additional bonus of a cultural experience of Canada.

The following list of students, supervisors and research topics provides an idea of the fruitfulness of this association. We hope that this will be ongoing for many years.

Nicole Schubert with L. Jones. “Protein and lipid deposition on Lotrafilcon silicone hydrogel contact lenses” • January 2000
Stefan Schaefer with T. Simpson “An objective of measure of ocular redness” • January 2000
Marc Schulze with D. Jones “The production of an enhanced grading scale for determination of ocular hyperaemia” • October 2000
Daniela Wegmann with S. Leat “Clinical tests of Contrast Sensitivity in Children; Normative age-related data and validation against the Pelli-Robson Chart” • May 2001
Sabine Ude with L. Jones “Protein and lipid deposition on Balafilcon silicone hydrogel contact lenses” • October 2001
Monika Enssle with D. Jones “Grating and recognition acuity in patients with amblyopia” • October 2001
Andea Mohr with S. Leat “Accommodative response in children and young adults with low vision” • In progress
Isabel Miencke with S. Leat “Emmetropisation of children with visual impairment” • In progress
Markus Viegener with T. Simpson “Comparison of ocular surface sensitivity and anatomy” • In progress
TLC & CCLR collaboration — Dr. Nancy MacDougall

TLC Waterloo and the CCLR have been working together for the past 18 months on a Custom LASIK study. The study results are being used as part of an FDA submission by the sponsor company Alcon. Eligible participants have LASIK surgery performed by Dr. Omar Hakim using the latest technology, which includes measurements of ocular aberrations by a wavefront measurement device. This information is fed directly into the laser to custom ablate the cornea, resulting in a custom treatment that corrects refractive error and higher order aberrations. Data collection and follow-up care for the 6-month study period is provided by the CCLR. To date, results have been promising. The CCLR and TLC will continue the collaboration by expanding the existing study.

Participants include: Desmond Fonn, Nancy MacDougall, Ping Situ, Kathy Dumbleton, Anson Chan, Lisa Willms, Chris Surdykowski, and Val Dippel.

Recent Presentations

Chou, B.R., and Hovis, J. 
Specifying a protector for electrical utility workers. 

Chou, B.R., Hovis J.K., and Cullen, A.P. 
Application of basic research to OHS standards development. 
Eye protection for electrical utility workers. 1st National Symposium, Canadian Association for Research on Work & Health Toronto, Ontario, 18 November 2001

Cullen, A.P. 
The Cornea Photokeratitis and Other Phototoxic Effects. 
Ocular Phototoxicity Symposium, 22nd Annual Meeting, American College of Toxicology Washington DC, 4-7 November, 2001

Cullen, A.P. 
Classical Photokeratitis Data, Endothelial Damage by Ultraviolet Radiation. 
USA CHPPM/ International Commission on Non-Ionizing Radiation Protection, Task Group Baltimore, Maryland, 20 September, 2001

Cullen, A.P. 
Contact Lenses in the Work Environment. Secrets of the Sclera. 
Ellerbrock Memorial Continuing Education Program, American Academy of Optometry Philadelphia, Pennsylvania, 6-10 December, 2001

Cullen, A.P. 
Diseases of the Anterior Uvea. Beyond the Cornea. 
SECO International Atlanta, Georgia, 20-24 February, 2002

Dumbleton, K., and Jones, L. 
Silicone-hydrogel materials: clinical update. 
UK tour for CIBA-Vision London, Birmingham, Bristol, Glasgow, and Manchester, October 2001

Fonn, D. 
Moderator: Session on comfort with contact lenses. 

Fonn, D. 
"Dryness:" The scourge of contact lens wear. 
International Symposium on Eyecare Quebec City, Quebec, September 2001

Fonn, D. 
The changing face of presbyopia. 
Opticians Association Calgary, Alberta, September 2001

Fonn, D. 
The etiology of presbyopia. Success of monovision and bifocal contact lenses for presbyopia. 
Mexico City, Mexico, November 2001

Fonn, D. 
Contact lens correction of presbyopia. Yes it works! But on whom? 
Cornea, Contact Lens and Contemporary Vision Care Symposium University of Houston, Texas, November 2001

Hovis, J. and Long, J. 
Visual acuity, contrast, and luminance: the forgotten equation. 

Hrynchak, P., Simpson, T., Jones, D., and Hutchings, N. 
A comparison of cup-to-disc ratio evaluation in normal subjects using stereo biomicroscopy and a digital image of the optic nerve head.

Hrynchak, P., Spafford, M., and Irving, E. 
Inter-rater reliability among optometry clinical instructors.

Jones, L. 
Red eye review. 
Optometric Educators CE lecture London, UK, October 2001

Jones, L. 
The truth about microbial keratitis. 
CIBA-Vision launch of Focus Night & Day Atlanta, Georgia, January 2002

Jones, L., and Dumbleton, K. 
Silicone-hydrogel materials: scientific update. 
UK tour for CIBA-Vision London, Birmingham, Bristol, Glasgow, and Manchester, October 2001

Jones, L., and Dumbleton, K. 
Differential diagnosis and management of silicone-hydrogel complications. 
CIBA-Vision launch of Focus Night & Day Atlanta, Georgia, January 2002

Leat, S.J., and Wegmann, D. 
Children's clinical tests of contrast sensitivity: validity against the Pelli-Robson. 
American Academy of Optometry Philadelphia, December, 2001- Optom Vis Sci. 78(5), 38

Leat, S.J. 
Low vision and low vision devices. 
Academy of Ophthalmic Education Continuing Education Series Toronto, Ontario, 5 November, 2001
The Museum of Visual Science has been honored to receive the Witelson collection—kindly donated by Prof. Sandra F. Witelson in memory of her late husband Dr. Henry Witelson.

Educated at McGill University, Dr. H. Witelson was the founding director of the Wentworth Eye Foundation and was Chief of Service in Ophthalmology, Hamilton Civic Hospitals from 1979 until his death in 1997.

He was a lifelong student of forefront ophthalmology, frequently visiting other centers, learning new ideas and techniques from leading surgeons. Dr. Witelson was a devoted clinician who had worked tirelessly to improve vision care in Canada. His caring spirit will live on in the Dr. Henry C. Witelson Memorial Ophthalmological Diagnostic Unit at the Hamilton Health Sciences Hospital, McMaster Medical Centre and the Dr. Henry C. Witelson Ophthalmic Pathology Laboratory, McGill University, a forefront high-tech diagnostic, research and educational unit. The Dr. Henry Chaim Witelson Memorial Prize in Ophthalmology has also been established at McMaster as an annual prize for medical students who continue his tradition of academic excellence in Ophthalmology.

Dr. Henry C. Witelson was not alone in his outstanding scientific endeavors. Witelson’s wife, Prof. Sandra F. Witelson has also established herself as a significant figure in the scientific community with her groundbreaking research and numerous other contributions. A Professor of Psychiatry and Behavioral Neurosciences, Dr. Witelson was recently appointed as the first holder of the Albert Einstein/Irving Zucker Chair in Neuroscience in the Faculty of Health Sciences, McMaster University. Dr. Witelson made headlines around the world with her research on the brain of Albert Einstein. Dr. Witelson’s discoveries, including the neurologic underpinnings of dyslexia or reading difficulty; the fact that men’s and women’s brains have different physical structures; and that there are anatomical differences in the brains of left-handed and right-handed people, have captured the attention of not only the scientific community, but the popular media as well.

Her extraordinary achievements have been acknowledged by her election to the Royal Society of Canada in 1996. She has also received several awards and honors including the John Dewan Award of the Ontario Mental Health Foundation, the Clarke Institute of Psychiatry Research Fund Award, and membership in the Dana Foundation alliance for Brain Initiatives. Moreover she receives invitations to lecture at centers around the world. We are honored and privileged at the museum to have received such an extensive collection of ophthalmologic books, journals, videotapes and other valuable equipment from the Witelson family.

We hope that it will be used to further the tradition of excellence that its donors have displayed in so many aspects of research and community service.