**Director’s Message**

– Thomas Freddo, OD, PhD, FAAO

**RUBY – a brilliant, deep red gemstone.** The fiery color of the ruby symbolizes devotion and desire. It was once believed that the wearer of a ruby would enjoy health, wisdom and outstanding success.

The ruby is also the traditional symbol associated with a 40th anniversary – a milestone that we have recently celebrated at University of Waterloo School of Optometry. Like the traditional belief associated with the wearer of a ruby, University of Waterloo School of Optometry has enjoyed health, wisdom and outstanding success in its first 40 years.

**Health:** The health of a program is measured by its strength, resources and growth. By any of these measures our program is healthy. We have increased our entering class to 90 of the most brilliant students completing university training in Canada each year. These optometry students, and our remarkable complement of graduate students pursuing the MSc and PhD degrees in Vision Science, bring devotion and a desire to succeed to our school. In doing so, they compel our program to strive for excellence.

To maintain the health of the program as we increased our enrolment, developing additional resources for clinical training was essential. Thanks to the foresight and understanding of the Ontario Minister of Training, Colleges and Universities, The Honourable John Milloy, and the support of University of Waterloo senior administration, I am pleased to share with you that the School has recently been granted an additional allocation of $1,000,000 annually to support clinical education. This funding came about as the result of an appreciation by the Ministry that clinical training programs require lower student:faculty ratios than other kinds of programs. This additional funding will add substantial health to our clinical program, allowing us to augment our existing strength by hiring additional residency-trained, TPA-experienced faculty. These additional clinical faculty will help to move us from our current student:faculty ratio of 10:1 toward the average of 7:1 found at other North American schools of optometry. While this additional support will add to the health of our program, none of these new resources can be used to support the expansion of our clinical facilities.

**Wisdom:** To accommodate our increased enrolment and to train the optometrists needed to meet the increasing vision care and medical eyecare needs of the Canadian population in the future, we are in the midst of building a 40,000 square foot addition to the School. This first phase, which is scheduled for completion in early 2009, will be followed by substantial renovations to our
existing facility. You can follow our progress by checking our website (www.optometry.uwaterloo.ca).

It is also exciting to report that the building that will house our new clinic, in conjunction with the Centre for Family Medicine at the new University of Waterloo Health Sciences Campus in Kitchener, is also under way. This exciting new opportunity will put optometry students and medical students side by side during their clinical training.

These expansions would not have been possible without the wisdom, foresight and support of my predecessors, the profession, our alumni and our corporate partners. Your continued support, helping us to reach our enhanced campaign goal of $12.4 million, is essential if we are to provide the kind of training environment that Canada’s future generation of optometrists will need.

Our program is also built on the wisdom, dedication and passion of our graduates. In this issue of our newsletter you will be able to read about the graduates selected to receive awards celebrating University of Waterloo’s 50th Anniversary and the additional awards presented to outstanding alumni during the 40th anniversary celebration of the School of Optometry last December. At this event, we had the opportunity to honour an illustrious group from the 4 decades that the School of Optometry has existed here at UW. We also honoured an optometry graduate from the period before 1967, when the optometry program was in Toronto.

As part of our 3-day anniversary celebration, our research faculty and graduate students had the opportunity to exchange their knowledge and wisdom with researchers from Université de Montréal École d’Optométrie, CNIB and York University at the 6th Canadian Optometry Conference on Vision Science. More about this conference also appears in this issue.

**Outstanding Success:** A substantial portion of the success for which University of Waterloo School of Optometry is known is embodied in our two Centres – the Centre for Sight Enhancement, led by Dr. Graham Strong, and the Centre for Contact Lens Research, led by Dr. Des Fonn. Both of these outstandingly successful Centres of Excellence will celebrate anniversaries this year. The Centre for Sight Enhancement is celebrating its 25th and the Centre for Contact Lens Research its 20th, and you can read about both of these in this newsletter.

If these two centres were the only successes UW Optometry had achieved it would be remarkable enough, but our faculty members are also making groundbreaking contributions in the fields of glaucoma, diabetic retinopathy, tear film anomalies, ocular motility, binocular vision, medical ethics and refractive error, just to name a few.

In its 40 years of existence University of Waterloo School of Optometry has garnered all of the attributes that the red ruby can bestow. With your continuing support this success will continue as we move beyond our Ruby Anniversary toward our Golden Anniversary in 2017.

*As always, don’t hesitate to write or call. We want to hear from you!*
We now have floors! Walls are also coming, but concrete has at least been poured and more is on the way. The ceiling of the first floor was poured during a snowstorm at the end of January and the scaffolding to support the ceiling forms of the second floor are going up quickly. Most of the concrete will have been poured by the time you are reading this article!

As you may know, a major element of the addition is a new, second elevator. This will be at a prominent and convenient location adjacent to the south staircase and will service all 4 floors. The new elevator installation begins in early April just as the addition is expected to be completely closed in.

As the new elevator will be located where we now have 2 floors of patient care clinic rooms, renovations of these affected areas will begin at the same time as the elevator installation. While there will be a reduction in clinic examination space initially, the long term plan will see this examination space replaced and relocated during the second phase of our expansion project. Final design planning will begin this summer for the clinic redesign renovations, which will follow completion and occupancy of the addition.

Please visit our website (www.optometry.uwaterloo.ca) where you can view the photo gallery and the hourly webcam photo and track the progress of the construction.

As I have in the past, I would ask you to support our building fund by either making a pledge or renewing/extending an existing pledge. While construction is well under way, we have not yet reached our new campaign goal for the addition. We thank all those who have already contributed to our building project. Your support will add dramatically to the resources we utilize in the training of our professional students in our expanded enrolment – which is up to 90 this year! 🌟
With the addition under way, we have set a new fundraising goal of $12.4 million, which will be essential to fund our ambitious expansion and renovation campaign. We are asking our alumni to stand by us during this time of growth and need by making a donation toward this important project. It is only through your involvement that we can continue to meet the demands of excellence in both optometric education and the profession.

Gift/Pledge Form

I/we wish to support excellence in education at the UW School of Optometry by supporting the expansion and renovation campaign.

Name ___________________________________________ Phone ________________________________

Mailing Address __________________________________________________________________________

Gift/Pledge Amount ___________ Pledge Period ___________ Years  Start Date ______________________

Project: UW School of Optometry – Building Expansion and Renovation Project

Method of Payment

☐ I/we have enclosed an initial payment of $__________ and wish to pay the remainder in installments.
  Please send me periodic reminders:
  ☐ Yearly  ☐ Semi-Annually  ☐ Quarterly  ☐ Monthly

☐ Cheque (Payable to: The University of Waterloo – School of Optometry)
  ☐ Post-dated cheques (Please attach all cheques to pledge form)

☐ Credit Card
  ☐ Visa  ☐ MasterCard  ☐ American Express

Card Number _______________________________ Expiry Date _______________________________

☐ Other ________________________________________________________________________________

Signature _______________________________ Date _________________________________

Thank You For Your Support!

Charitable Registration Number: 11926 0685 RR0001

Please return this form to:
Andrea Carthew, Senior Development Officer – School of Optometry, University of Waterloo
200 University Ave. West, Waterloo, Ontario N2L 3G1
Planning to attend the 2008 meeting of the American Academy of Optometry?

Watch for a CCLR-sponsored research symposium in honour of our 20th anniversary – including topics such as lens surface properties, discomfort, inflammatory responses to contact lens wear and the future of silicone hydrogels.

Over the past 20 years, the Centre for Contact Lens Research has grown from a workforce of 3 to an internationally recognized research facility that includes 4 University of Waterloo faculty members, 10 research associates and an administrative staff of 15. We also have 10 graduate students and a post-doctoral fellow. Desmond Fonn has been our Director since 1988.

While keeping up with new developments in the contact lens industry, we’ve always kept the needs of you and your patients in mind. Consider the following results of recent CCLR studies:

Do your patients comply with the lens care routine you recommend?

A recent survey of 80 contact lens wearers showed poor compliance with manufacturers’ instructions for multipurpose solutions. 50% of MPS users reported that they never rub their lenses before storing them, and 55% of MPS users reported never rinsing prior to storing their lenses. Only 26% of respondents maintained their lens case in an appropriate manner: 11% left the previous night’s solution in the case, 30% rinsed their cases with tap water and 13% refilled the case with new solution immediately. Participants using peroxide solution reported 100% compliance.

Don’t be surprised if your highly myopic patients take a bit longer than patients with less myopia to adapt to silicone hydrogels.

A recent CCLR study indicated that adaptation may take about a month, but by the one month mark our study participants reported longer comfortable wearing time, more wear days per week and a preference for the silicone hydrogel lenses.

Dry eye symptoms can be related to a number of things, including tear volume, biochemical make-up and contact lens wear.

We’ve found that post-menopausal women with dry eye symptoms tend to have lower tear volume, lower tear break-up times and greater bulbar conjunctival hyperemia than an age-matched cohort with no dry eye symptoms.

Thank you to those of you who have referred people to us as study participants. Finding people who match our study criteria is an ongoing challenge and support from within the professional community makes an immense difference. We appreciate your help.

For more information, contact us at: 519-888-4742 cclr.uwaterloo.ca
On December 8 2007 the School of Optometry celebrated the closing of our 40th Anniversary year at a dinner recognizing 6 outstanding alumni from both our undergraduate and graduate programs who have gone on to make significant contributions to the profession and/or their communities. Nominations for the awards were made by peers and colleagues throughout the year. We were delighted by the number of nominations we received and were proud to see such a wide array of accomplishments. This made the decisions all the more difficult!

Our 40th Anniversary Distinguished Alumni Award winners represent varying decades from the past 40 years and all have made distinct contributions. We have also chosen one individual, Dr. Marvin Langer, who exemplifies optometry’s legacy prior to its arrival at UW. It was our distinct pleasure to have been able to honour his many contributions to optometry and it brought sadness to us to learn of his recent passing in March.

The School was delighted to be able to recognize the many outstanding achievements of all of our award recipients and applauds their commitment to, and enthusiasm for, the advancement of the profession and their communities.

Dr. Marvin Langer
Marvin graduated in 1947 and went on to complete a Master of Science from Indiana University in 1966. He began practising in 1948, and also became an educator, active researcher and advocate for the profession, serving many leadership roles with the CAO, CEO and OAO boards and committees. In addition, Marvin continually gave back to his community through involvement with organizations such as the Canadian Association of Children with Learning Disabilities and Joyce Parkway Public School. Marvin was a true treasure and will be greatly missed by friends and colleagues.

Dr. James Kerr
Jim graduated in 1976. After returning to Saskatchewan, he was quickly engaged in the profession, serving in leadership roles in both the SAO and CAO. Complementing this is both his continual involvement in industry, where he has served as an Advisory
Board member with a number of optometric companies, and his willingness to share his expertise and professional management skills through CE. In Saskatoon, Jim is known as “Mr. Community” for his active involvement. He regularly volunteers with the Association of Children with Learning Disabilities and has recently established a memorial fund in the name of his mentor, Dr. Austin Forsyth, which supports local charities.

Dr. Marta Witer
Marta graduated in 1979 and returned to Toronto to begin her career in private practice. Over the years she has been very active in the profession, her community and the School, using her energy and passion to create opportunities, build relationships and enhance the lives of others. She has served on the Board and was President of the Vision Institute, and is currently a board and committee member with the OAO. Marta’s involvement with the School and passion for optometric education is extraordinary, exemplified through her volunteerism and extreme generosity. Marta’s contributions also extend far into her community, where she has been active with many educational and youth organizations, helping them to advance her mission.

Dr. Gerry Leinweber
Gerry graduated in 1980 and now practices in Red Deer, Alberta. Before leaving UW, Gerry joined a group that provides eye care in the developing world, leading him to the creation of Canadian Vision Care. His professional involvement includes Past President of the ACO, and he has served on many committees for the AAO. In addition, Gerry is a founding member of Doctors Eyecare Network and he has been very active in CE. Gerry’s diverse interests have led him to develop a new business model (DECE – Doctors Enhancing Clinical Excellence) and found the Doctor’s Business Alliance. He has also designed 4 different software products and consults on practice management, as well as clinical and information technology issues. Gerry is a longtime member of the Lion’s Club, serving as President and District Sight Chairman, and he has served on the Board of the Alberta Eye Bank.

Dr. Austin Roorda
Austin graduated from our Vision Science program with a PhD in 1996. He went on to do a postdoctoral appointment at the University of Rochester, where he used the world’s first adaptive optics ophthalmoscope to measure the properties of human photoreceptors. From 1998 to 2004, he was on the faculty at the University of Houston College of Optometry, where he designed and built the Adaptive Optics Scanning Laser Ophthalmoscope (AOSLO). Commercially available systems are currently in development. Since January 2005, Dr. Roorda has been at the UC Berkeley School of Optometry, where he is Chair of the Vision Science graduate program and holds the Solon M. and Pearl A. Braff Chair in Clinical Optometric Sciences. His team’s current research involves clinical applications for microscopic retinal imaging and basic investigations of structure and function of the visual system.

Dr. Charline Gauthier
Charline graduated in 1987 from UW and went on to complete her PhD and MBA. She began her career in the eye care field as an optometrist and spent time in both private practice and research activities in Canada and Australia. In 1995 Charline joined Autonomous Technologies, where she began her illustrious career in industry. She has held senior positions in Autonomous Technologies, Summit Technology, Alcon and Intralase Corp, where she was Executive Vice President and Chief Operating Officer. In 2004, Charline was recognized with an induction into the Space Technology Hall of Fame for her role in the development and commercialization of LADARVision 4000 laser technology.

To read the full biographies of our award winners please visit www.optometry.uwaterloo.ca/alumni/awards or call Andrea Carthew, 519-888-4567, ext. 36319 for a copy of the program.
New International Appointments for Two of Our Own

– Andrea Carthew

**Dr. Thomas Freddo – President, International Society for Eye Research**

On January 1, 2008, the School’s Director, Dr. Thomas Freddo, began his 4-year term as President of the International Society for Eye Research (ISER) after spending the last 2 years as President-Elect. Dr. Freddo has been a member of ISER for 15 years and has the distinction of being the first optometrist to lead this international organization. In addition to being President, he also serves as Executive Editor of the highly regarded journal *Experimental Eye Research*, an ISER-sponsored publication.

ISER was founded in 1968 under the leadership of Dr. Endre Balazs, the developer of the first clinical viscoelastic – Healon. With over 500 members worldwide, the mission of the International Society for Eye Research is to support, sustain and propagate excellent eye research throughout the world. This is achieved through the enhancement of international communication and collaboration by providing a forum for dissemination of information among eye researchers, and by developing and sustaining the skills and resources of the eye research community. ISER holds biennial meetings, which include the 2008 meeting from September 24-29 in Beijing, and the 2010 meeting from July 18-23 in Montreal. For more information about ISER visit www.ISER.org.

**Dr. John Flanagan – President, Optometric Glaucoma Society**

In October 2007, longtime UW School of Optometry professor Dr. John Flanagan was appointed the new President of the Optometric Glaucoma Society, where he formerly held the position of Program Chair for their annual meetings. Dr. Flanagan came to Waterloo in 1985, and he also holds appointments in the Department of Ophthalmology and Vision Sciences, Faculty of Medicine, University of Toronto and in the Vision Science Research Program at Toronto Western Research Institute, University Health Network.

Dr. Flanagan, under the leadership of Murray Fingeret and in collaboration with Tom Lewis and Mike Patella, co-founded the Optometric Glaucoma Society (OGS), which held its inaugural meeting in 2002. The OGS is an international society with a mission to promote excellence in the care of patients with glaucoma through professional education and scientific investigation. The major objectives are to promote education of the membership and other healthcare providers related to all forms of glaucoma; to promote the acquisition of new knowledge about glaucoma in part through the development of clinical research within optometry; to facilitate the dissemination of information about glaucoma to healthcare providers and the public; and to establish collaborative relationships with other organizations. The OGS is one of the World Glaucoma Societies – www.worldglaucoma.org (formerly the Association of International Glaucoma Societies). OGS annual meetings are held immediately prior to the American Academy of Optometry meeting, with the next meeting scheduled for October 21, 2008 in Anaheim, California.
University of Waterloo Recognizes Optometry Alumni – Andrea Carthew

Not only was 2007 the 40th Anniversary of the School of Optometry’s move to Waterloo in 1967, but it also was the 50th Anniversary of the University of Waterloo. As an institution there are many incredible accomplishments that this young university can celebrate, exemplifying how, over a short time, UW has become one of the most innovative universities in the country.

**UW 50th Anniversary Alumni Awards**

The University of Waterloo recognizes that such success is due in large part to the involvement of our alumni in advancing our mission and goals. In acknowledgement of this, UW’s Alumni Council established the UW 50th Anniversary Alumni Awards to honour outstanding alumni for their commitment to the University. Council selected 50 alumni from all units across campus who exemplified extraordinary citizenship to UW.

The School of Optometry was delighted to have two of our alumni selected to receive this special honour. Congratulations to **George Woo, OD ’64**, and **Judy Brisson, OD ’77**!!! It was wonderful to have two of our own honoured with 48 other esteemed University of Waterloo graduates for their dedication and commitment.

To learn more about the awards and to see George’s and Judy’s biographies, visit www.alumni.uwaterloo.ca/alumni/awards

**UW Faculty of Science 50th Alumni of Honour Awards**

With the University of Waterloo celebrating its 50th Anniversary, the Faculty of Science seized the opportunity and occasion to acknowledge the remarkable achievements of 50 of its own alumni. The one-time Alumni of Honour Awards were bestowed to outstanding alumni who have proven their merit to their peers and community. This diverse group of individuals symbolizes the sheer excellence and drive of Faculty of Science graduates.

The School of Optometry was excited to have four of our graduates receive such special recognition. Congratulations to **Carol Cressman Foster, OD ’79**, **Dan Hayhoe, OD ’74**, **Jawad Minhas, OD ’93**, and **Mary Lou Riederer, OD ’77!!!**

Bill Bobier accepted the award on behalf of Mary Lou, who was unable to attend.

To learn more about the awards and to read the recipients’ biographies, visit www.science.uwaterloo.ca/alumni/awards

The School of Optometry was delighted to have two of our alumni selected to receive this special honour. Congratulations to **George Woo, OD ’64**, and **Judy Brisson, OD ’77!!!** It was wonderful to have two of our own honoured with 48 other esteemed University of Waterloo graduates for their dedication and commitment.

To learn more about the awards and to see George’s and Judy’s biographies, visit www.alumni.uwaterloo.ca/alumni/awards
We are pleased to offer our annual Continuing Education program specifically geared to the Optometric Assistant and optometric practice staff member as part of the UW School of Optometry Continuing Education 2008 weekend.

The lecture series will be held on **Saturday, June 7 2008** with 7 accredited hours of lecture time starting at 8:15am. Topics this year include energetic personal growth and improving business skills, demystifying those new lens designs, using humour in the workplace, a new approach to contact lenses and much more. It is a full day of great information, updates and knowledge to take back to your workplace!

Our annual Industry Information Trade Show and Luncheon in the tent will once again be part of the Saturday program. 30 vendors will have booths to display the newest in ophthalmic spectacle and contact lenses, frames, equipment, technologies and services. This luncheon is included at no extra charge with the Saturday lecture series.

A 3-hour workshop will be offered on **Sunday, June 8 2008**. The topics are:

1) Slab off (bicentric) lenses – when to consider them and how to neutralize them correctly.

2) Demonstration and hands-on session with some very cool state-of-the-art technology that takes all spectacle measurements digitally. This will be available for offices soon!

3) A workshop that has been requested many times – fitting nose pads with confidence!

All workshops are one hour each and “hands-on”, so please encourage your staff to come out and learn a few new techniques or polish up existing skills.

*I look forward to seeing your staff in June!*

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**REGISTRATION FORM – CE 2008**

Please complete this form as soon as possible and submit along with your method of payment. If paying by cheque, please make cheque payable to the UNIVERSITY OF WATERLOO (CDN$). No post-dated cheques please.

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Mail or fax to:
E. Reidt, CE Co-ordinator,
University of Waterloo
School of Optometry
Waterloo, ON N2L 3G1
Fax: 519-725-0784

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Don’t Miss the Woodruff and Bobier Distinguished Lectures!

Please join us on CE Weekend for the Woodruff and Bobier Lectures. Admission is free with your registration!

On Friday, June 6th at 4:45pm, the 14th annual lecture to honour Dr. Emerson Woodruff will be presented. This tradition was established in 1994 to recognize Dr. Woodruff’s many contributions to the School of Optometry and the profession he loved.

Dr. Woodruff was a widely known and highly respected Canadian optometrist, educator and scientist before his passing in 2005. After practising optometry in southern Ontario from 1950 to 1962, he left private practice to teach and pursue a PhD degree in physiological optics at Indiana University. He joined the faculty at University of Waterloo School of Optometry in 1967. Dr. Woodruff was Director of the Optometry Clinic from 1967 to 1974 and Director of the School from 1975 to 1981. He was instrumental both in the formation and growth of the clinical program as well as the establishment of the MSc and PhD graduate programs in Vision Science.

Before his retirement, Dr. Woodruff published over 70 scientific and professional articles, mostly dealing with the epidemiology of visual anomalies. He served on a number of government agencies and commissions and received several awards from the profession of optometry.

This year’s Woodruff Lecture is “Advancing Accessibility to Eye Care Through Telemedicine” and will be presented by Dr. Anthony Cavallerano.

Dr. Anthony Cavallerano, OD, FAAO

Anthony Cavallerano is currently an attending staff optometrist at VA Boston Health Care System and Education Coordinator for the VA Boston Ocular Telehealth Training Program. He is a Professor of Optometry at the New England College of Optometry, where he is the former Clinical Dean and Director of the Center for Continuing Education. He has served as the Editor-In-Chief for two peer-reviewed professional journals, Optometry and Clinical Eye and Vision Care.

Dr. Cavallerano directed the Eye Care Program at the MIT Medical Department for 16 years and served as the interim director of the Eye Care Center of Chelsea. He has authored several book chapters and over 50 professional journal articles on a variety of subjects dealing with retinal and other ocular disease topics. He has lectured and presented at numerous local, national and international meetings and he is the co-author and editor of two professional textbooks, including Macular Disorders: An Illustrated Diagnostic Guide. Dr. Cavallerano is a Fellow of the American Academy of Optometry and a member of the American Optometric Association, the American Telemedicine Association, the International Society of Imaging in the Eye and the Massachusetts Society of Optometrists.

On Saturday, June 7th at 4:45pm, the 19th annual Clair Bobier Lecture in Vision will be presented. This tradition recognizes Dr. Clair Bobier for his vision for the future and his many contributions to the profession.

Dr. Bobier was born in Moosomin, Saskatchewan, and received his Diploma of Optometry in 1948 from the Ontario College of Optometry in Toronto (the predecessor to the School). During his first year of private practice, he began sharing his methodical, analytical approach to clinical practice with the students at the College. In fact, throughout his life, he retained a common sense, thoughtful approach to his home life and to his chosen profession – an approach he would quickly tell you, with a mischievous grin, that he learnt in a prairie town with an obscure name like Peapod, Saskatchewan.

Dr. Bobier was one of the first Canadian optometrists to undertake postgraduate research in vision science. For his MS degree, he studied at Ohio State University under Professor Glenn Fry. His exposure to this eminent optometric researcher shaped his view on the importance of the scientific approach to the optometric profession. Over his many years of dedicated service, he became instrumental in the development of a scientifically-based curriculum and research-oriented faculty in Canada.

Immediately after receiving the MS degree in 1956, Dr. Bobier returned to teach at the Ontario College and continued to do so at the new School of Optometry at University of Waterloo until his retirement in 1982. He was extremely influential in bringing Optometry to Waterloo. His ideals were passed along to university and government officials in many influential briefs which did much to ensure the respect and funding necessary for the future growth of the profession.

The School of Optometry building itself embodies, in its interface of clinic and research facilities, Dr. Bobier’s concept of what the profession should be: excellence in modern vision care, built on a firm base of scientific understanding.

This year’s Bobier Lecture is “The Cornea – In The Line of Fire” and will be presented by Dr. Desmond Fonn.

Dr. Desmond Fonn, MOptom, FAAO

Desmond Fonn is a Professor at University of Waterloo School of Optometry and Director of the Centre for Contact Lens Research. He is a graduate of the School of Optometry in Johannesburg, South Africa, and the University of New South Wales in Sydney, Australia, where he also served as a consultant for the Cornea and Contact Lens Research Unit.

He is a Fellow of the American Academy of Optometry and a diplomat of the Cornea and Contact Lens section, as well as a member of the Canadian and Ontario Associations of Optometrists and the Association for Research in Vision and Ophthalmology. He is the immediate Past President of the International Society for Contact Lens Research and a founding member of the International Association of Contact Lens Educators, in which he served as Vice President for 15 years. He also serves on the Board of Directors of ICEE – the International Centre for Eyecare Education. In 2003 Desmond Fonn received the prestigious Max Shapero award from the American Academy of Optometry, which is awarded to individuals who have made a significant contribution to the cornea and contact lens field.

He received the Wichterle medal from the Czech Contact Lens Society in 2003, the Kenneth Bell medal from the Australian Contact Lens Society in 2007 and the British Contact Lens Association Gold Medal in 2008. He currently serves as Editor-In-Chief of Eye & Contact Lens and is on the editorial boards of Ophthalmic and Physiological Optics and The Ocular Surface. Professor Fonn is the author of over 100 peer-reviewed papers.
While we continue to wait for the final stamp on our Rx pads, UW is offering more case-based practical TPA education. A full 3-day certificate program on various TPA-related topics will be offered from Friday, June 6th to Sunday, June 8th 2008.

Dr. Alan Kabat, Associate Professor at Nova Southeastern University College of Optometry, will speak on various anterior segment topics from allergic eye disease management to corneal grand rounds. Dr. Carl Spear, a veteran therapeutics speaker, will return to UW and contribute his vast experience in TPA use and education in a number of case-based lectures. Dr. Kathy Yang-Williams, an alumna from UW ’94 and Resident at NSU ’96, will present on contemporary glaucoma therapy. The contemporary pharmacological treatment of AMD will be reviewed by Dr. Tom Sheidow, while Dr. Thomas Freddo, the Director of the School of Optometry, will discuss the systemic aspects of red eye management.

As is now tradition, we are presenting our annual Dr. Emerson Woodruff and Dr. Clair Bobier Lectures as part of the program. Our distinguished speakers this year are Dr. Anthony Cavallerano and Dr. Desmond Fonn. Dr. Cavallerano will speak on “Advancing Accessibility to Eye Care Through Teledmedicine“. On the 20th anniversary of the founding of the Centre for Contact Lens Research, Dr. Fonn will bring his experience in the practice of contact lenses with an engaging talk on “The Cornea – In the Line of Fire“. See www.optometry.uwaterloo.ca/ce/2008/woodruffbobier.html for more information.

In conjunction with our June CE program, we are inviting all attendees, regardless of year of graduation, to attend our Reunion Dinner on Saturday, June 7th. Those who have attended previous Reunion Dinners have reported a great time, excellent food and an opportunity to reconnect on a warm summer evening on the Optometry “green” outside the School. We look forward to seeing you all there! (Please note, if you did not include the Reunion Dinner on your registration form and wish to, please contact Elizabeth Reidt at ejreidt@uwaterrlo.ca).

Enjoy a now famous lunch between the eye disease and therapeutics talks on Saturday in the parking lot tent during the Industry Information Trade Show.

We look forward to seeing you all in Waterloo to learn and celebrate with us!
Accredited 100-Hour TPA Course

University of Waterloo School of Optometry

The University of Waterloo School of Optometry is pleased to announce a comprehensive 100-hour Treatment and Management of Ocular Disease course.

Unlike our TPA2001 course, which was held entirely at the School, our 2009 course will be undertaken in conjunction with Northeastern State University College of Optometry in Tahlequah, Oklahoma. Our current building expansion project and major renovations over the next couple of years prevent us from hosting the 40-hour practical component. UW will host the 60-hour didactic portion of the program, while the 40-hour practical portion will be held in Oklahoma.

60-hour Didactic Program
The lecture portion of the program is scheduled for Saturday, February 14th through Sunday, February 22nd 2009 at University of Waterloo. The lectures from well-known speakers range from a review of basic ocular pharmacology, through the spectrum of ocular disease, to contemporary management. The main focus will be on the therapeutic management of anterior segment diseases, including critical systemic disease management strategies.

40-hour Practical Program
The practical component will be undertaken in segments over the remainder of 2009. Groups of 40 participants at a time will travel to Oklahoma for an intensive practical session held from a Thursday through the following Monday. A number of dates will be offered.

Please see the website for a registration form and details.

We hope you will join us for an intensive, informative and practical TPA course!

CONTACT:
Elizabeth Reidt, CE Co-ordinator,
University of Waterloo School of Optometry
Waterloo ON N2L 3G1
519-888-4567, ext. 33177
Fax: 519-725-0784
Email: ejeidt@uwaterloo.ca or visit our website at www.optometry.uwaterloo.ca
Or
Dr. C. Lisa Prokopich at clp@uwaterloo.ca
Please complete the following form and submit along with your payment. Please make cheques payable to UNIVERSITY OF WATERLOO ($CDN). No post-dated cheques please. If more than one form is required (i.e., if there is more than one registrant), please photocopy the form and complete separately for each registrant.

The reunion dinner is free for all registrants.

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| Phone      | Fax |
| Email (required) |  |

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☐ Cheque ☐ MasterCard ☐ VISA

Card Number

Expiry Date

Name (as it appears on card)

Signature

Mail or fax to:
E. Reidt, CE Co-ordinator,
University of Waterloo
School of Optometry
Waterloo, ON N2L 3G1
Fax: 519-725-0784

For office use only:
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Method

Date
March 2008 marks the 25th anniversary of the Centre for Sight Enhancement (CSE) at the University of Waterloo School of Optometry. The seed was planted in March 1983 with the publication of an editorial in the *Canadian Journal of Optometry* lamenting the paucity of competent clinical rehabilitation services to assist Canadians with low vision. In tandem with this advocacy, Drs. George Woo and Graham Strong were engaged in a number of key government planning initiatives.

Woo was active in the Low Vision Committee of the Ontario Ministry of Community and Social Services (MCSS) and secured funding for pivotal rehabilitation support services to expand the depth and scope of low vision services at University of Waterloo. Strong was active on the Ontario Ministry of Health planning subcommittee that formulated the Vision Aids component of the Assistive Devices Program (ADP), which was introduced in 1984.

To ensure that ADP-eligible clients had access to a full range of assistive technology under the program, 3 high technology service centres were established with Ministry funding and support: clients who required sight substitution devices would be assessed at the W. Ross Macdonald School in Brantford; clients who required orientation and mobility devices would be assessed at the Canadian National Institute for the Blind (CNIB) in Toronto; and clients who required sight enhancement devices would be assessed at University of Waterloo.

A ceremonious opening of the new CSE facility was held in January 1985. The CSE name eminated from an early realization that device-assisted vision rehabilitation would eventually be subdivided into sight substitution services (for people with functional blindness) and sight enhancement services (for people with low vision). The CSE was envisioned as a multifaceted unit within the School of Optometry with specific responsibility for providing high quality clinical low vision services; for undertaking low vision rehabilitation teaching (undergraduate, graduate, and continuing education); and for conducting low vision research (theoretical and applied).

In June of the following year, the CSE hosted the first Canadian International Symposium on Low Vision. Woo was the principal architect behind this successful 3-day event, which attracted an extensive cast of renowned optometrists, ophthalmologists and vision rehabilitation leaders from around the globe. The proceedings of this event were subsequently published by Springer-Verlag in 1987, with Woo serving as Editor.

One of the most pivotal research accomplishments for the CSE was the creation of a model for comprehensive low vision rehabilitation, wherein a sequential aggregation of interventions were described in tandem with the differentiated semantic concepts of disorders, impairments, disabilities and handicaps. Using this model for low vision rehabilitation, we rationalized the need for integrated multidisciplinary services occurring in a logical intervention sequence.

We also introduced the concept of “parallel care”, wherein patients who present at small primary level clinics can be assured of high quality services through the calculated outsourcing of relevant expertise at appropriate intervals. The Ontario Ministry of Health’s highly successful Vision Aids Section of the Assistive Devices Program (ADP) subsequently adopted this philosophical approach. Verifiable adherence to these principles was instrumental in the CSE’s becoming the first and only Canadian vision rehabilitation service accredited by the National Accreditation Council (NAC)
for Agencies Serving People with Blindness or Visual Impairment in 1989. Over the ensuing period and following 4 different on-site reviews, the CSE has maintained its “accredited with high distinction” status. It continues to be Canada’s only peer-reviewed and internationally accredited vision rehabilitation service.

One of the first major research projects for the CSE was to develop evidence-based protocols for prescribing and dispensing low technology assistive devices and closed circuit television (CCTV) systems to persons with low vision. To implement this project, a province-wide network of low vision rehabilitation professionals (optometrists, ophthalmologists, and CNIB vision rehabilitation nurses) were outfitted with relevant assessment kits and trained to provide low vision services in accordance with contemporary protocols. Data from the ensuing low vision patient encounters were collected over the 3-year study period and analyses of these data were used to help plan subsequent expansions to the Assistive Devices Program. A large portable building was purchased and installed to receive, assemble and ship the significant device inventory required for this project.

In 1992, a supplemental contract was awarded wherein the CSE established a small network of regional CCTV assessment centres to implement this portion of the ADP expansion. The classical approaches to the prescribing of high technology systems as reported in the literature do not anticipate an extensive availability of hardware for assessment purposes. They also fail to dissociate themselves from the barriers imposed by the high cost of these systems. A novel prescribing protocol was developed to ensure that service consumers obtained the best system for their individual use. Subsequent research has repeatedly confirmed the validity and economy of this “competitive enablement” approach, and these protocols have been reported at 10 international rehabilitation conferences and subsequently adopted by a number of leading high technology clinics around the world.

From 1984 until 1993, all ADP-related high technology low vision device assessments and authorizations in the province were carried out by CSE personnel. As the provincial demand for these services grew, a High Technology Tech Aids Program Review was conducted in 1992 and ADP revised its service delivery strategy. A Ministry-initiated Request for Proposal process was conducted to establish a network of Regional Assessment Centres (RACs) to provide high technology assessment services across the province. The CSE was awarded the contract to become the lead assessment centre and to create and administer an equipment pool for ADP Vision Aids program. With a current budget in excess of $3M, the Sight Enhancement Equipment Pool and Assessment Centre (SEEPAC) commenced operation in 1994 and continues to provide important services to CSE patients and to the Assistive Devices Branch of the Ministry of Health.

Since the inception of ADP’s Vision Aids program in 1984, the age eligibility was changed from 18 years to all ages, which caused a corresponding shift in the distribution of patient ages seen in the clinic. Meanwhile, several other provincial government programs also began to improve the funded availability of assistive devices for educational and vocational applications, causing a considerable impact on the changing profile of our low vision service.

Educational legislation now requires that every student with a disability must be provided with any necessary adaptations or assistive devices to help maintain them at the best level of competition with their peers. These changes in social legislation have helped to transform the CSE into a more comprehensive and highly specialized service facility. CSE patients range in age from 2 years to 102 years, but there continues to be a large proportion of younger patients (one-third are under 19 years of age).
In addition to the emergence of a bimodal age distribution within the clinic’s population, there has been an increase in the number of multiple-impaired and profoundly impaired clients. As Canada’s largest and most advanced assessment centre for high technology sight enhancement devices (including optical devices, CCTVs, adapted computers and scanners), the CSE low vision clinic attracts referrals from all across the country. A Northern Travel Grant is available from the Ministry of Health to assist patients from Northern Ontario who wish to attend the CSE clinic. Under some circumstances, Centre personnel also travel to remote areas of the province to provide assessment services.

With more community-based practitioners and clinics providing primary low vision services, a growing percentage of CSE patients require secondary and tertiary levels of care. Approximately one-third of all patients seen have significant co-disability issues that require multiple assessments, follow-up training and tertiary rehabilitation arrangements for advocacy support. Whereas inadequate funding and other restrictions have precluded the on-site availability of some ingredient services, these services are routinely accessed via CSE networking with other service providers, including Children’s Treatment Centres, Ontario Disability Support Program, the Canadian National Institute for the Blind (CNIB), E.C. Drury School for the Deaf, Robarts School for the Deaf, Kids Ability Centre, Windsor Children’s Treatment Centre, Thames Valley Children’s Centre, George Jeffries Children’s Treatment Centre, Bloorview Macmillan Children’s Centre, local school boards and the W. Ross Macdonald School for the Blind (WRMS).

The CSE’s highly analytical assessment and prescribing environment promotes keen insights into many requirements engineering issues related to assistive technology. In recognition of this expertise and the established excellence of its clinical low vision services, CSE researchers were invited to partner in the development of an Ontario-based research and development consortium, which works in partnership with Canadian industries to research and develop new and innovative rehabilitation technologies for people with disabilities. The Ontario Rehabilitation Technology Consortium (ORTC) operated from 1992 to 2005, with over $1.7M in grants being awarded to the CSE-based Vision Research Team. This team actively contributed to the development and commercialization of many innovative and award-winning rehabilitation products, including:

- International Neural Machine’s NeuroTalker OCR software (Imaging Magazine’s 1996 Product of the Year Award and 1996 Editor’s Choice Award)
- Control Advancement Corporation’s Virtual Reality Mouse (1998 SAP Stevie Wonder Product of the Year Award finalist)
- Ocutech’s VES-AF Autofocus Telescope (1999 CNIB Winston Gordon Award)
- Betacom’s VisAble VideoTelescope VVT (2001 Popular Science Magazine Best of What’s New Award in the Medical Technology category)
- the first scientific calculator for scientists with low vision (Betacom Corporation)
- the first CMOS-based digital closed circuit television (CCTV) reading system (Betacom Corporation)
- novel prism readers (Sight Enhancement Technologies Inc.)
- a unique line of specialized ophthalmic frames with side shields for youngsters with low vision applications (Sight Enhancement Technologies Inc.)

In recognition of these achievements, the CSE’s Sight Enhancement Engineering Laboratory received a Computerworld Smithsonian Award and CSE Director Graham Strong was invested as a 1999 Computerworld Smithsonian Laureate.

These assistive technology research and development initiatives have continued beyond the life of the ORTC, with substitute project funding support from Canadian Institutes of Health Research (CIHR), Communications and Information Technology Ontario (CITO), The Health Technology Exchange (htx.ca) and a new industry partner (Sight Enhancement Systems Inc.). The following new products were developed and commercialized during 2007:

- The Sci-Plus 300, the world’s only large display scientific calculator with speech output, and whose latest models feature French and Spanish language output
- The WatCam, a portable enhanced camera system (autofocus and auto-iris) for people with low vision, featuring contrast stretch, polarity reversal, text thresholding, freeze frame, image capture and colourization (for display on any monitor, television or laptop computer)
- A new plug and play portable camera unit is nearing completion, featuring output display
enhancements that allow users with low vision to access visual information at any distance and under almost any viewing conditions, with connectivity to any video display (CRT, laptop, LCD, TFT, Plasma or video projection)

• Research and development continues on the world’s first fully digital widescreen closed circuit television (CCTV) low vision reader, which will be extremely compact, highly portable and HDTV compatible, with controlled enhancements that include contrast stretch, polarity reversal, text thresholding, optical and digital zoom magnification, virtual x-y table, widescreen display conformity (digital aspect ratio windowing), and colourization.

CSE researchers have served as consultants for the development of clinical assessment protocols for Visionics Corporation’s historic Low Vision Enhancement System (LVES), which was developed at Johns Hopkins University. With support from Visionics Corporation and the Ontario Ministry of Health, clinical investigators from the CSE and from Mohawk College (Orientation and Mobility and Rehabilitation Teaching) developed highly efficacious assessment and prescribing protocols for this new device. New training methods were developed to build on the visual skills and abilities of potential users in order for them to adapt successfully to head-mounted device use. The veracity of these approaches is borne out by the unparalleled outcomes of high satisfaction levels and low abandonment rates for CSE patients who obtain these costly head-mounted devices.

The breadth and depth of the CSE’s clinical and research undertakings promote an excellent learning environment for vision rehabilitation professionals, including paediatric ophthalmology fellows, rehabilitation social work students from WLU, vision rehabilitation students from Mohawk College and other post-degree vision rehabilitation professionals, all of whom are routinely hosted alongside Optometry interns within the CSE clinic. In addition, residency-trained CSE faculty clinicians have supervised a procession of Low Vision Optometry residents who have gone on to excel in community practices across the country.

The CSE also has planned and implemented a series of day-long community education events that attract capacity audiences from the local community (200-400 participants per event, depending on the venue). These events were organized to provide area residents with contemporary and comprehensive information on topical areas such as Macular Degeneration, Diabetic Retinopathy, Vision and Aging, Glaucoma, Cataracts and Device-Assisted Low Vision Rehabilitation.

With a total research and contract budget that now exceeds $3.5M per year, CSE staff and faculty continue to be extremely busy and productive on many fronts. The Vision Rehabilitation Evidence-Based Review (VREBR) is a comprehensive evidence-based review of rehabilitation interventions and services for people who are blind or visually impaired. Modeled after the Stroke Rehabilitation Evidence-Based Review, it is designed to serve as an authoritative reference to unmet research needs. The principal collaborating institutions are the Department of Physical Medicine and Rehabilitation (Parkwood Hospital and University of Western Ontario), the Ivey Eye Institute (and Department of Ophthalmology, University of Western Ontario) and University of Waterloo School of Optometry.

The stated mission of the Centre for Sight Enhancement is to promote Canadian excellence in all facets of blindness and low vision rehabilitation (with particular emphasis in the areas of clinical services, high technology access, assistive device development and technology transfer). As we celebrate our 25th year of operation, we feel that this mission is being accomplished. We can only imagine what the CSE will accomplish over the next quarter century!
Research in Optometry Conference
December 7-9 2007

The School of Optometry hosted a joint research symposium with Université de Montréal École d’optométrie on December 7, 8 and 9 2007 to celebrate the 50th anniversary of the University of Waterloo. The conference also celebrated the 40th anniversary of the School of Optometry at the University of Waterloo, as well as the approach of the centenary anniversary of Université de Montréal École d’optométrie. The conference included participation from researchers at University of Toronto and York University, as well the CNIB.

The conference highlighted faculty and graduate student work in all aspects of vision science and included 17 invited research talks, 70 poster presentations and 150 participants. Over 60 faculty, graduate students and Optometry students attended from Montreal.

The Friday gala opening was held at the Clay and Glass Gallery in Waterloo, which featured an exhibit of well known sculptor Judy Chicago. The two Directors, Thomas Freddo and Jacques Gresset, provided words of welcome, along with Len Koltun from the CAO.

Saturday was a lecture and poster day at the Delta Hotel in Kitchener. A banquet on Saturday evening celebrated the holiday season, alumni accomplishments and the various anniversaries. Awards for the best student poster were presented to Krithika Nandakumar and Marc Schulze from Waterloo, and to Sara Dubuc and Olivia Taras from Montreal. The Lost Faculties then entertained the crowd with their selection of rock and roll hits from the 60s, 70s and 80s.

The symposium then moved to the School of Optometry on Sunday morning for a series of lectures and concluded with a tour of the School.

The lectures and posters were a showcase of the depth and breath of vision research taking place in Canada, and at the two Schools in particular. Topics included tear chemistry; interactions of contact lens materials; ocular blood flow in normal and diseased states; anterior chamber anatomy and physiology; visual pathways through the thalamus; normal and abnormal binocular vision perception and stereopsis; vision and virtual reality; new diagnostic techniques; eye movement control; visual development; low vision rehabilitation; and addressing vision problems in unique populations.

This was the 6th in a series of research conferences hosted by the Canadian Schools of Optometry to highlight Canadian optometric research over the past 13 years.

CCLR Symposium at AAO – Alisa Sivak

Please join the Centre for Contact Lens Research at the meeting of the American Academy of Optometry in Anaheim, California, October 22-25 2008.

We look forward to seeing you there!

Beyond Oxygen – the Future of Contact Lenses – A celebration of the 20th Anniversary of the Centre for Contact Lens Research, University of Waterloo

1. Desmond Fonn
   Introduction – An introduction to the symposium by reviewing factors that have limited contact lens growth.

2. Eric Papas
   Discomfort – Here Today, Gone Tomorrow? – The causes of chronic contact lens end-of-day discomfort and dryness.

3. Trefford Simpson
   Subjective or Objective Assessment? – A review of modern technologies for objective assessment of contact lens performance and their advantages over conventional subjective assessment.

4. Lyndon Jones
   It’s All in the Surface – Why surface properties are important in contact lens success and the modern methods used to produce comfortable, biocompatible surfaces.

5. Kathy Dumbleton
   Silicone Hydrogels – Today and Tomorrow – Silicone hydrogel lens materials: problems that have been solved and those that remain.

6. Debbie Sweeney
   Inflammatory Responses – How to prevent soft contact lens induced corneal inflammation.

7. Mark Willcox
   Antibacterial Surfaces: Preventing Contact Lens Infections – Technologies used for antibacterial surfaces on contact lenses and the current status of clinical trials.

8. Dwight Cavanagh
   “Disinfecting” Solutions – Fact or Folly? – Probable causes of fungal and amoebic infections associated with multipurpose disinfecting solutions.

9. Brien Holden
   Double-Digit Growth for Contact Lenses – How to optimize contact lens comfort and safety.
Drs. Judy Brisson and Rodger Pace – Friends, Supporters and Educators – Andrea Carthew

Since graduation, both Judy and Rodger have remained a constant presence around the School of Optometry, contributing over 30 years each to the program as educators, supporters and friends. For this we are grateful.

If you have graduated from the School some time over the last 28 years, then you have been taught by Dr. Pace. Following graduation in 1974, Rodger went on to do a residency, and then returned to the School as a part time clinical supervisor during his five years in private practice. In 1979, he returned full time to the School as a clinical lecturer and since then has been involved in teaching labs and courses in clinical techniques, ocular disease, low vision, gerontology, case analysis and continuing education courses. Clinically, Rodger has been extensively involved in Primary Care, Ocular Health and Low Vision. Such involvement in clinical education means that he has had a hand in training over 1600 optometrists! When not teaching, Rodger has also been involved in College of Optometrists of Ontario committee work for nearly 20 years now, including representing the School on College Council.

Judy has also played a role in educating future optometrists. Upon graduation in 1977, she opened her own practice in Guelph, which has now grown to a 5 person group. Judy has been a long time volunteer with the Canadian Association of Optometric Students, acting as a mentor to current students, and is also a supervisor in the School of Optometry’s Primary Care Externship Program. And since Judy has a special interest in contact lenses and has participated in clinical trials of new contact lens materials, she has been able to offer some unique educational opportunities to students. It goes without saying that through her involvement, she has played a role in enhancing the clinical skills of many of our graduates.

Judy’s involvement with the University of Waterloo doesn’t stop there. She also served a 6 year term on the Board of Governors, including 3 years as Chair of the Audit Committee. In September 2007, Judy was recognized for her contributions to UW and received one of the UW 50th Anniversary Alumni Awards.

In addition to being educators, Judy and Rodger are also financial supporters. Over the last 20 years, they have consistently given back to the School of Optometry to help enhance our programs and clinic, and most recently they have supported our building expansion. Through their campaign gift of $50,000, we are pleased to be able to name an area in the clinic in recognition of not only their wonderful support, but also the many years of time and service they have contributed in this area. Thank you Rodger and Judy for your ongoing generosity!

Of course, we can’t forget to mention the Lost Faculties. As one of the guitarists in the band, Rodger has been able to entertain many of us over the last few years. The band’s success has contributed to an increase in the School’s profile internationally, while showing off the musical talents of our faculty members.

Outside of optometry, Judy is also very involved in her community. She is past chair of the YMCA-YWCA of Guelph, during which time she assisted with their capital campaign and construction project. In 2001, she received the Ontario Association of Optometrists Millennium Award, and in 1992 received the Canada 125 medal in recognition of her community work. Judy is currently a director of Meridian Credit Union and is a charter member of the Zonta Club of Guelph.

Rodger and Judy have many other interests, including building guitars for Rodger and organic native plant gardening for Judy. In fact, Rodger has built several guitars and mandolins to date, while Judy is a Master Gardener, volunteering at garden events and providing advice to home gardeners. They are also the proud parents of a son, Michael, who is just finishing his fourth year in BioMedical Sciences at University of Western Ontario and will begin his masters in neurophysiology there next year.

Rodger and Judy’s ongoing relationship with the School of Optometry has deep roots for so many reasons. This is why we consider them such close friends!
January 3-10 2009: Our Second “CE on the SEA”!

For those of you waiting for our TPA Continuing Education winter cruise offering, there is good news!

Combine learning and leisure while sailing the Caribbean with your colleagues aboard Princess Cruises’ newest ship, the Ruby Princess! Refresh your TPA knowledge with this 12-hour evidence and case-based program highlighting the current management of ocular disease with TPAs! Come and pick up new diagnostic pearls and treatment strategies for use in daily patient care!

The boat is leaving January 3rd for 7 days with ports-of-call at Ocho Rios, Cayman Islands, Cozumel, and Bahamas. The cost, not including tax and airfare, is $639 (inside cabin), $769 (outside cabin), $1,039 (balcony suite), or $1,249 (mini-suite). For only $250 you can confirm your spot – fully refundable up until October 15.

The cost for the lectures and 12-hour TPA certificate is $600.

Information on cruise and CE registration is available on our website at www.optometry.uwaterloo.ca

For Cruise Information and Bookings:
Ms. Dawn Fairbanks, Uniglobe Discover Travel
304 Stone Rd. W.
Guelph ON N1G 3C4
1-877-224-9947
dawn@mindfultraveller.com

For CE Information and Registration:
Ms. Elizabeth Reidt, Professional Services Coordinator
School of Optometry, University of Waterloo
Waterloo ON N2L 3G1
1-519-888-4567, ext. 33177
ejreidt@uwatertoo.ca