



THE HONG KONG
POLYTECHNIC UNIVERSITY

香港理工大學

凝聚智慧 創建未來

INNOVATION AND APPLICATION
FOR THE FUTURE



眼科視光學院

SCHOOL OF OPTOMETRY

In-focus

A newsletter of the School of Optometry

Vol. 10 | Issue 2 | 2012



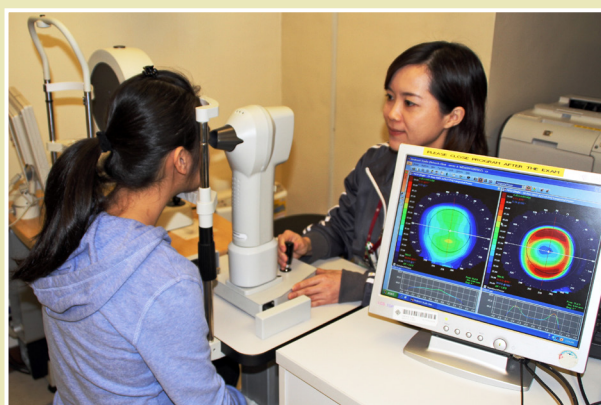
Orthokeratology

– Education and Research at PolyU



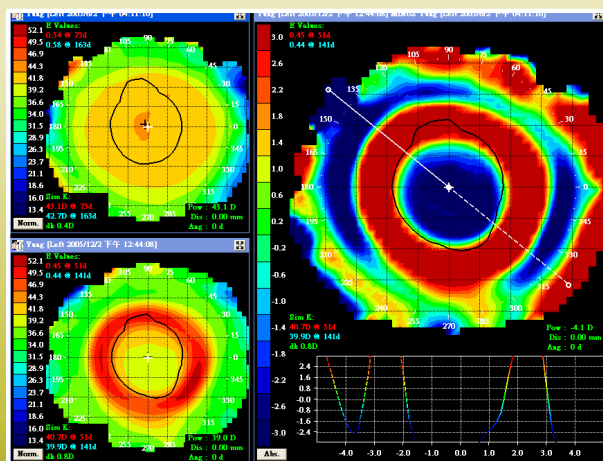
ORTHOKERATOLOGY

Although orthokeratology has been in existence for more than 60 years, this field has developed most rapidly over the past decade. Such development encompasses the emergence of new lens design/materials as well as the advancement of different fitting techniques. Orthokeratology offers some relief from complete dependence on spectacles and from the effect of myopia progression, as successfully proven by renowned researchers throughout the world. This relief



greatly persuades parents to allow their children to undergo this procedure. To date, orthokeratology is one of the most commonly performed contact lens-fitting procedures in children in Hong Kong. As with any advanced medical procedure, specific knowledge and skills are required to perform the technique safely and successfully. Accordingly, continuing education programmes leading to the awarding of postgraduate certificates of attainment in orthokeratology practice were periodically organized by the School of Optometry of The Hong Kong Polytechnic University (PolyU) from 2004 to 2007. These programmes provided learning opportunities for practicing Optometrists to develop skills in this specialized procedure.

In November 2011, the School held another certificate course in orthokeratology, which comprised a total of 58 contact hours (26 hours of lectures, 6 hours of tutorials and 26 hours of practical sessions). As



with previous programmes, the course attracted many applicants and 34 local practicing Optometrists were eventually selected. Some of these candidates already had experience with orthokeratology. The intensive course provided a platform for learning the theoretical and clinical aspects of orthokeratology based on the most recent research developments.

The students benefited from the lectures by



experienced orthokeratology practitioners and researchers. These sessions provided opportunities for the participants to gain broad exposure to and examine current issues in the development of orthokeratology from the clinical and scientific perspectives. Among the topics were updates on corneal physiology and topography, basic reverse-geometry lens fitting techniques and problem-solving skills, specialized orthokeratology lens-fitting protocols, myopia

control with orthokeratology, lens care procedures and compliance, as well as orthokeratology case studies.

Attendees were awarded a certificate of attainment after passing written and practical examinations. As the organizer of this latest orthokeratology certificate course, I hope that this endeavour will not simply begin and end here but that it will also serve as a reminder of the importance of advancing continuing education in this field. This pursuit will not only widen the scope of practice for Optometrists, but also facilitate the delivery of the best possible eye care for orthokeratology patients.



The School takes an active role in collaborating with the local optometric associations in promoting safe and up to date practice in orthokeratology. Two conferences were held in April and October 2012. (see next page).

Orthokeratology research, as one of the important arms in our Myopia Research is making a big step forward with its recent release of the major findings in "Retardation of Myopia in Orthokeratology (ROMIO) study: a 2-year randomized clinical trial" by Cho et al. of PolyU in Investigative Ophthalmology and Vision Sciences October issue.

The School is committed to informing the profession and the community on the practice of orthokeratology both from our research and clinical evidence.



Dr. Larry Ng Hou-yan
Senior Clinical Associate
School of Optometry

WHAT'S HAPPENING OUT THERE?

The 8th Asia Cornea & Contact Lens Conference



On behalf of The Hong Kong Society of Professional Optometrists (HKSPPO) and in collaboration with PolyU's School of Optometry, The Hong Kong Association of Private Practice Optometrists, Hong Kong Contact Lens Research Association, and the Eye Foundation, I was tasked to bring a close to the 8th Asia Cornea & Contact Lens Conference (ACCLC), which was successfully held on 26-27 April 2012.

This two-day conference brought together 371 participants from 14 countries or regions, making it a truly international event. Like previous ACCLC, its aim was to provide a platform for clinicians, vision scientists and academics to exchange views on the latest development in contact lens research and practice.

During the conference, delegates gained greatly from the highly stimulating discussions with the panel presenters and keynote speakers. Attendees were also exposed to international perspectives and could examine current issues in rapidly changing areas of Optometry, particularly in the contact lens field, from both clinical and scientific angles. Among the topics were specialty contact-lens fitting and the clinical management of various ocular surface disorders. A half-day clinical workshop on punctal occlusion and lacrimal irrigation was put on to update practitioners with useful clinical skills and techniques.



WHAT'S HAPPENING OUT THERE?

The HKSPPO is proud to have hosted the conference. Much gratitude is due to the conference's organizing committee members, speakers, patron sponsors, exhibitors and delegates for making this meeting a great success. As the president of The HKSPPO, I do hope that this event would not only start and conclude here but also would remind us to advance the process of continuing professional development.

The 9th Asia Cornea & Contact Lens Conference will be hosted in 2014 by the School of Optometry, Chung Shan Medical University in Taiwan. See you there!



WHAT'S HAPPENING OUT THERE?

Hong Kong Orthokeratology Conference 2012

The Hong Kong Orthokeratology Conference 2012, organized by The Hong Kong Association of Private Practice Optometrists, was held on 4-5 October 2012 at Langham Place Hotel, Kowloon. It provided eye care practitioners with the most up-to-date knowledge on orthokeratology, an interesting field for academic Optometrists and clinical Optometrists alike. The conference covered different topics in orthokeratology. Prof. Carly Lam delivered an opening remark at the conference. In addition, three staff members from the School were invited to be speakers: Prof. To Chi-ho delivered a presentation on "Myopia: where do we stand and how do we control it?"; Dr. Vincent Ng gave a talk on "Paediatric Ortho-K: clinical care for emerging younger myopes"; and Mr. Vincent Chui presented a talk on "Corneal topography in orthokeratology" and another on "Clinical case analysis: from start to finish". The School also encouraged its other staff to take part in the event, and four of our Optometrists and Residents, namely Mr. Jimmy Tse, Ms. Gigi Yee, Ms. Angel Wong and Mr. Terry Ng, attended the conference to learn the latest insights, news and advances in orthokeratology.



2012 HA Convention Poster Presentations by Prof. George Woo and Ms. Rita Sum

At the 2012 Hospital Authority Convention themed "Enhancing Health" on 7-8 May 2012 at the Hong Kong Convention & Exhibition Centre, Prof. George Woo presented a poster titled "Vision screening for stroke survivors". The authors are Prof. George Woo, Mr. Siong Kar Ho, Ms. D Chan, Dr. L Li, Dr. H Cheung and Dr. Allen Cheong.

Ms. Rita Sum presented a poster titled "How does optometrist service in general out-patient clinic affect referral pattern to ophthalmologist?" Its authors are Dr. Denise Tam, Dr. Alfred Kwong, Dr. KH Ngai, Dr. PK Sze, Dr. CW Chou, Dr. Emily Tse, Dr. Jenny Wang, Dr. Wendy Tsui, Ms. Rita Sum, Prof. Maurice Yap, Mr. Billy Sze and Prof. David Wong. Ms. Sum also presented a poster titled "Referral agreement of optometry service in general out-patient clinic", which is authored by Ms. Rita Sum, Dr. Denise Tam, Dr. KH Ngai, Dr. PK Sze, Dr. CW Chou, Dr. Emily Tse, Dr. Jenny Wang, Dr. Alfred Kwong, Dr. WK Ko, Dr. Wendy Tsui, Prof. Maurice Yap, Mr. Billy Sze and Prof. David Wong.



WHAT'S HAPPENING OUT THERE?

Prof. George Woo Presented a Paper at IAPB 9th General Assembly

Prof. George Woo delivered a talk on "The use of Instant Vision Assessment Device (IVAD) in determining refractive errors" at the IAPB 9th General Assembly in Hyderabad, India, on 17 September 2012, the first day of the three-day event. The assembly was themed "Eye Health: Everyone's Business".

Prof. George Woo Attended the Sixty-third session of the WHO Regional Committee for the Western Pacific

In his capacity as the Immediate Past President of World Council of Optometry and Asia Pacific Council of Optometry, Prof. George Woo attended the Sixty-third session of the World Health Organization (WHO) Regional Committee for the Western Pacific held in Hanoi, Vietnam from 24-28 September 2012. Major participants of the meeting were Dr. Shin Young-soo, WHO Regional Director for the Western Pacific, Dr. Nguyen Thi Kim Tien, Ministry of Health of Vietnam, Dr. Ko Wing-man, Secretary for Food and Health of the HKSAR Government, Dr. Constance Chan, Director of Department of Health of the HKSAR Government, and many Health Ministers and delegates from the region.



WHAT'S HAPPENING AT SCHOOL?

New Era for School's Optometry Undergraduate Programme

Hong Kong's tertiary education has entered a new phase. The traditional two tiers of secondary education qualifications (O- and A-Levels) have now been amalgamated into one Diploma of Secondary Education (DSE), giving way to an additional year of university education for our youngsters. This idea of 4-year (or 5-year for Optometry) university education is laudable as it aims to broaden the student learning experience through comprehensive general education. In particular, students will be educated on contemporary issues related to Hong Kong, the Chinese mainland and the world. This educational platform will nurture the "soft power" of an individual, upon which he or she can use to further flourish in his or her future career and life.

This year is a special year: we received the last cohort of A-Level students and we welcomed the first batch of DSE students at the same time. Fearing chaos and the unexpected, a great deal of work has gone into the preparations for the double cohort. Thankfully, the worst did not happen and, so far, progress has been quite smooth generally.

The School has thoroughly revised and updated its curriculum for the new 5-year Optometry programme. Among the many changes we have made is using the extra year to spread Optometry subjects across the 5 years. We have also strengthened both basic and clinical science education — they are now arranged in a seamless fashion so that clinical practices are more synchronized with didactic learning. Exemplifying the uniqueness of PolyU's Optometry programme, we have introduced a subject called "Management and Prevention of Refractive Errors," which, among other things, deals with issues related to the high prevalence of myopia in Hong Kong and the region.

Although the new 5-year curriculum of Optometry has just begun, we are already looking ahead with much anticipation. We expect to see our next generation of Optometrists, who will be both professionally competent and contemporarily relevant, to be able to rise to meet new challenges from our ever-changing world.

Prof. Pauline Cho Won 2 PolyU Awards for Research and Consultancy

Prof. Pauline Cho's research on "Clinical Research on Myopia Control and Contact Lenses" captured the Grand Award, the top prize, in the Research Excellence category of PolyU's Distinguished Knowledge Transfer Excellence Awards, as well as a Merit Award in the Highest International Consultancy category of PolyU's Annual Outstanding Professional Services Awards 2011, which were jointly held at a special ceremony at PolyU's Hotel ICON on 14 June 2012.



▲ From left: Prof. Pauline Cho; Ir Dr Ng Tat-lun, Deputy Chairman of PolyU Council

(From left: Miss Jessie Charm, Prof. Pauline Cho, Mr. Nicholas Yang, Executive Vice President of PolyU, Mr. Chan Ka Yin and Miss Hon Ying)

2012 理大卓越知識轉移獎頒獎典禮



WHAT'S HAPPENING AT SCHOOL?

Distinguished Knowledge Transfer Awards 2012 Presentation Ceremony

2012 理大卓越知識轉移獎頒獎典禮

Johnson & Johnson Vision Care, Inc Won PolyU's Distinguished Knowledge Transfer Partnership Award

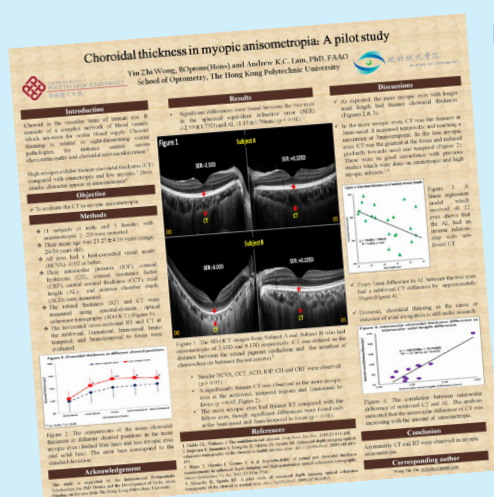
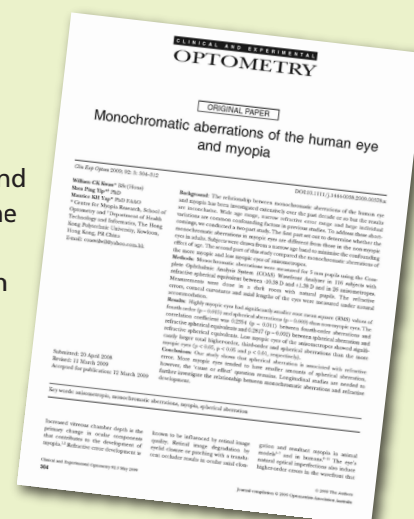
Johnson & Johnson Vision Care, Inc. won PolyU's Distinguished Knowledge Transfer Partnership Award for its collaboration with Prof. Pauline Cho.



◀ (From left: Dr. Karen Cheng, Associate Professional, Regulatory & Quality Affairs Director, Johnson & Johnson (HK) Ltd – Vision Care, Prof. Pauline Cho, Mr. Gary Ho, General Manager, Johnson & Johnson (HK) Ltd – Vision Care, Prof. Timothy Tong, PolyU President, Mr. Andy Lau, Regional Professional Affairs Director, Johnson & Johnson (HK) Ltd – Vision Care, Prof. Maurice Yap, Chair Professor of Optometry and Dean of PolyU's Faculty of Health and Social Sciences)

Dr. William Kwan, Prof. Yip Shea-ping and Prof. Maurice Yap Bestowed with J Lloyd Hewett Award 2012

Dr. William Kwan, a PhD graduate, Prof. Yip Shea-ping, Associate Head (Research) at PolyU's Department of Health Technology and Informatics, and Prof. Maurice Yap, Chair Professor of Optometry and Dean of PolyU's Faculty of Health and Social Sciences, were given the J Lloyd Hewett Award 2012 for their original research paper titled "Monochromatic aberrations of the human eye and myopia," which was published in the May 2009 issue of "Clinical and Experimental Optometry".



PhD Student Won Top Prize for Poster at 4th ASEAN Optometric Conference

Miss Wong Yin-zhi, a PhD student supervised by Dr. Andrew Lam and Prof. Carly Lam, won 1st prize for her poster at the 4th ASEAN Optometric Conference, which took place on 30 September and 1 October 2012 in Kuala Lumpur, Malaysia. Previous studies reported a negative association between axial elongation and choroidal thickness. The poster outlined Miss Wong and her supervisors' pilot study that recruited anisometropes and documented the same rate of thinning in the more myopic eye.

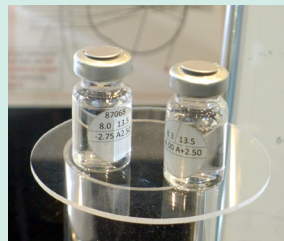
WHAT'S HAPPENING AT SCHOOL?

School's Inventions Showcased at PolyU's House of Innovation



Two inventions by staff of the School, the Defocus Incorporated Soft Contact (DISC) lens and the Instant Vision Assessment Device, have been selected for exhibition by PolyU for its on-campus House of Innovation. The DISC lens, which was invented by Prof. Carly Lam, Prof. To Chi-ho and Dr. Dennis Tse, has been found to slow down myopia progression by about 50% in Hong Kong schoolchildren aged between 8 and 13 years old. Their invention won the Grand Prize and the Gold Medal with Jury's Commendation at the 39th International Exhibition of

Inventions of Geneva and the Grand Prize of the Technical University of Cluj-Napoca, Romania, in 2011, and the Sek-J in Chew Travel Grant at the 2005 meeting of the Association for Research in Vision and Ophthalmology (ARVO). The Instant Vision Assessment Device, which was invented by Prof. George Woo, is a portable subjective refractive system for determining the refractive errors of patients. It won the Gold Award at the 53rd World Exhibition of Innovation, Research and New Technology (Brussels Eureka) and the Prize of Minister Fientje Moerman in 2004.



PolyU Education Info Day 2012



PolyU held its Education Info Day on 6 October 2012 to inform prospective students and their parents about JUPAS academic programme choices at the University as well as to increase career guidance teachers' awareness of the strengths and uniqueness of PolyU's programmes. The School hosted an exhibition, information seminars and guided visits to the Optometry Clinic to give them a better understanding of our Optometry programme and facilities and the optometric profession as a whole.

WHAT'S HAPPENING AT SCHOOL?

School Retreat



On 12 September 2012, 87 staff members participated in the School's annual retreat, which was held at Hotel ICON. Our Head, Prof. Carly Lam, gave a briefing to staff, which highlighted the University's newly launched Strategic Plan 2012-2018 and the School's revised mission statement that takes this into account. She also shared details of the School's management structure and its new laboratory space for both teaching and research. Prof. Lam talked about good communication practice and encouraged colleagues to maintain dialogue and effective communication.

Prof. To Chi-ho was invited to speak about research strategy. Dr. Andrew Lam, Associate Professor and Associate Head, provided attendees with an update of clinical governance. Dr. Do Chi-wai, Assistant Professor, gave a talk on laboratory safety. Mr. Peter Pang, Associate Consultant Optometrist, introduced the Optometry Clinic's operations to our staff. Ms. Linda Liu, Executive Officer, spoke about administrative support. Prof. Maurice Yap, Chair Professor of Optometry and Dean of PolyU's Faculty of Health and Social Sciences, and Prof. George Woo, Emeritus Professor and Visiting Chair Professor of Optometry, gave a rundown of the latest developments in Optometry in Hong Kong and on the Chinese mainland.



OUR PEOPLE

New Term and Academic Staff

Second row (from left to right): Dr. Rachel Chun, Instructor, Dr. Allen Cheong, Assistant Professor, Dr. Do Chi-wai, Assistant Professor, Mr. Li King-kit, Instructor and Dr. Kee Chea-su, Assistant Professor

First row: (from left to right): Dr. Henry Chan, Associate Professor, Dr. Andrew Lam, Associate Professor and Associate Head, Prof. Carly Lam, Head, Prof. To Chi-ho, Associate Head, Prof. Maurice Yap, Chair Professor of Optometry and Dean of Faculty of Health and Social Sciences, Prof. George Woo, Emeritus Professor and Visiting Chair Professor of Optometry, Prof. Pauline Cho, Mr. Peter Pang, Associate Consultant Optometrist, Dr. Thomas Lam, Assistant Professor, Dr. Larry Ng, Senior Clinical Associate, Dr. Jeremy Guggenheim, Associate Professor and Dr. Lily Chan, Clinical Associate



New Associate Professor

Dr. Jeremy Guggenheim

Dr. Jeremy Guggenheim joined PolyU from his former position as Reader at the School of Optometry and Vision Sciences, Cardiff University, UK. He received his BSc in Ophthalmic Optics from the University of Wales Institute of Science and Technology in 1988 and PhD from Cardiff University in 1992. Dr. Guggenheim's main research interest is the aetiology of myopia, with particular emphasis on molecular and genetic aspects. He uses a wide range of approaches, including studies in humans and animal models, in order to identify potential risk factors and therapeutic targets/pathways. His research collaborations include CREAM (Consortium for Refractive Error and Myopia meta-analysis), the International High Myopia Genetics Consortium, and the MyEuropia network. Dr Guggenheim has been awarded funding from the UK's Biotechnology and Biological Sciences Research Council, Wellcome Trust and the European Union. In the past 5 years, he has published 23 peer-reviewed articles in leading research journals.

New Assistant Professor

Dr. Thomas Lam

Dr. Thomas Lam served as Lecturer at the University of Manchester (Singapore), School of Chemical and Life Sciences, Singapore Polytechnic, before he returned to PolyU as Assistant Professor in August 2012. Dr. Lam was awarded a PhD scholarship after his BSc in Optometry in PolyU to pursue the study of proteomics. He was among the first to propose novel protein regulations in the chick myopia model. His work has been very well received at conferences and has been published in high impact journals. Dr. Lam started his academic career in 2008 as Lecturer at PolyU's School of Optometry, and he obtained his first competitive research grant from the Research Grants Council in the following year. In 2010, he relocated to Singapore and helped to establish the BSc in Optometry degree programme offered by the UK's University of Manchester at Singapore Polytechnic for holders of Diploma in Optometry. He was also invited to contribute to the work of the review committee for Singapore Polytechnic's Diploma in Optometry course.



OUR PEOPLE

Optometry Residency Programme

Miss Daisy Leung completed the Optometry Residency Programme in August 2012.



Adjunct Appointments of the School

Honorary Appointments of the School



Adjunct Professor (Re-appointments)

Prof. Lily Chiu

Consultant (Centres of Excellence),
Strategy & Planning Division, Hospital Authority

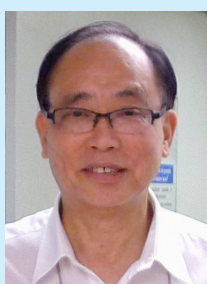
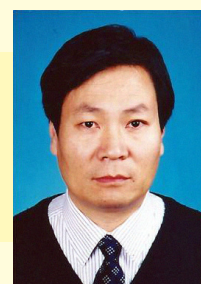


Prof. Liu Longqian

Director, Department of Optometry,
West China School of Medicine, Sichuan University

Prof. Hu Jinsheng

Chinese Medicine Consultant,
Tung Wah Eastern Hospital–The Hong Kong Polytechnic
University Wilson T. S. Wang Chinese Medicine Clinical
Research and Services Centre



Adjunct Professor (Re-appointment)

Prof. Joseph Yeung

Private Ophthalmologist

Prof. Luo Xusheng

Eye Hospital of China Academy of Chinese Medical Sciences



Adjunct Associate Professor (Re-appointment)

Dr. Tan Kah Ooi

Associate Programme Director,
University of Manchester Optometry Degree Programme,
Singapore Polytechnic, Singapore

Academic Visitors



Prof. Jacob Sivak

Distinguished Professor Emeritus, University of Waterloo, Canada

Date: 9-13 Jun 2012

Mr. Jin Chenhui

Associate Professor, School of Medical Technology and Nursing, Shenzhen Polytechnic

Date: 23 Jul-3 Aug 2012

Prof. Han Sun-hee

Professor, Department of Optometry, Choonhae College of Health Sciences, Korea

Date: 20 Aug 2012

Prof. Han Sun Hee is the 4th from the right

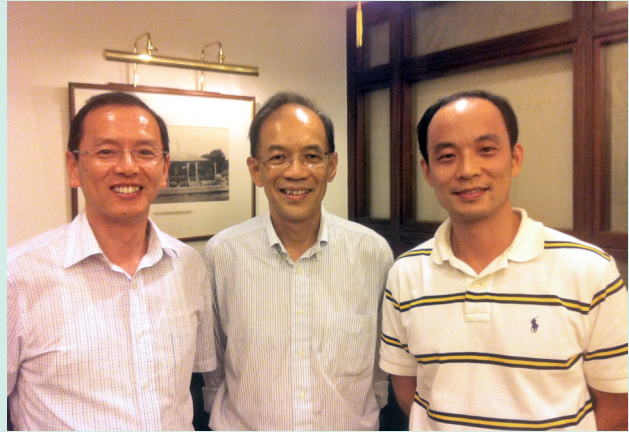


Dr Cheong is introducing the Optometry Clinic

OUR PEOPLE

Academic Visitors from the Chinese Mainland

Prof. Shen Ye, Vice President of the First Affiliated Hospital, Zhejiang University School of Medicine, and Prof. Han Wei of the Eye Center at the First Affiliated Hospital, visited Prof. Maurice Yap, Chair Professor of Optometry and Dean of PolyU's Faculty of Health and Social Sciences, on 21 September 2012. They discussed student placements and research collaboration.



Prof. Lea Hyvärinen

CEO, VISTEST Ltd.

Senior Lecturer, Developmental Neuropsychology, University of Helsinki, Finland

Honorary Professor, Rehabilitation Sciences, Technical University of Dortmund, Germany

Date: 23 Sep-3 Oct 2012

Visit to Optometry Clinic by Sightsavers International's Bangladesh Office

On 13 July 2012, PolyU's Optometry Clinic welcomed visitors from the Bangladeshi office of Sightsavers International. They were Dr. Abul Hasnath Mohammed Enayet Hussain, at the Department of Paediatric Ophthalmology, National Institute of Ophthalmology & Hospital; Dr. Md. Habibur Rahman, Senior Consultant at Bangladesh Jatiyo Andha Kalyan Somity Comilla; and Ms. Rifat Shahpar Khan, Programme Manager for Sightsavers, Bangladesh.



Donations to the School

The Hong Kong Society of Professional Optometrists donated HK\$8,200 to the School in August 2012.

Alcon Hong Kong, Limited donated one LCD monitor worth HK\$16,000 to the School in August 2012 for teaching purposes.

Mr. Tong Chan-ho donated HK\$800 to support student development at the School in September 2012.

Asia Medicare (HK) Limited donated HK\$82,048 to support staff and student development in the School in October 2012.

Icare Finland Oy donated one iCare TA01i tonometer to the School. The donation was made at a special presentation at the Optometry Clinic in September 2012.



STUDENTS CORNER

Student Award Ceremony 2011-2012

The School held its annual Student Award Ceremony on 7 September 2012 to recognize our undergraduates' achievements and academic excellence over the past year. During the ceremony, Prof. Maurice Yap, Chair Professor of Optometry and Dean of PolyU's Faculty of Health and Social Sciences, and Prof. Carly Lam, our Head, thanked the professional associations and companies for their invaluable support in offering prizes and scholarships for the winners.

Congratulations to all of the awardees!



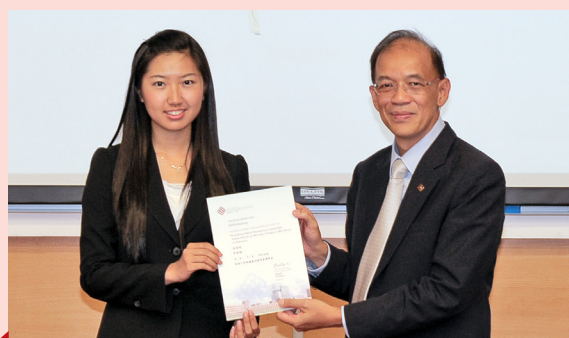
Alcon Excellence in Contact Lenses Scholarship
Miss Shen Jiachang



FreshKon Award
Mr. Wu Wai-lok



**Hong Kong Optical Manufacturers Association
Scholarship for the Best Year 2 Student in
BSc(Hons) in Optometry**
Miss Lam Haw-tung



**Hong Kong Optical Manufacturers Association
Scholarship for the Best Year 3 Student in
BSc(Hons) in Optometry**
Miss Shen Jiachang



**The Hong Kong Society of Professional
Optometrists Prize for the Best Year 1 Student
in BSc(Hons) in Optometry**
Miss Wang Zhaoran



**The Hong Kong Society of Professional
Optometrists Academic Excellence Award for
Year 4 Student in BSc(Hons) in Optometry**
Mr. Wu Wai-lok

STUDENTS CORNER



Johnson & Johnson Vision Care Scholarship for Overseas Student Exchange Programme
Miss Lo Wai-jing



Johnson & Johnson Vision Care Scholarship for Overseas Student Exchange Programme
Miss Yung Mei-yan



Skyview Optical Travelling Scholarship for Overseas Student Exchange Programme
Miss Lee Cheuk-wing, Litire



The Hong Kong Association of Private Practice Optometrists Community Service Award
Miss Lo Wai-jing



The Hong Kong Association of Private Practice Optometrists Best Community Project Award
(From left:) Miss Wong Ka-man; Mr. Ma Sheung-man, Alfred; Mr. Shi Lei; Miss Lee Ka-yin; and Miss Lo Wai-jing

STUDENTS CORNER

Optometry Departmental Society Orientation Camp 2012

By Mr. Ko Man-chung, Kelvin, President of Optometry Departmental Society

AL- and DSE-entry Optometry freshmen enthusiastically joined the Optometry Departmental Society's orientation camp 2012 that lasted from 10-12 September 2012 at Hong Kong Baptist Assembly in Fanling.

On the first day, the students gathered at PolyU for an introduction to the activities they would be taking part in during the "o-camp". All participants were randomly divided into 6 groups. After a briefing, the groups started their contest and fought to win the first section of the o-camp's 'city hunt', where they had to reach different checkpoints located all over Hong Kong, including some optometric clinics. Then all the students gathered back at the camp to prepare for the next competition, a detective game, in which they had to work with their team members to create a story from clues. Next, they played games involving all members of the other groups, which enabled them to learn the importance of cooperation. Finally, each group performed a 'camp dance'.

The o-camp ended in success, with laughter from the freshmen being evidence of their enjoyment, bonding and new friendships.



Sharing on Vision Screening Experience in Qinghai and Xinjiang

By Chin Man-pan, MPhil Student

For Optometrists as health care professionals, having a caring heart is equally important as possessing the necessary professional knowledge. This summer, a group of Optometry students went on a community service trip with Optometrists from our School to Qinghai and Xinjiang in northwestern China. We aimed to provide vision screening to schoolchildren in remote areas and raise their awareness of uncorrected refractive errors, the main cause of visual impairment in developing countries.

It was a hard but meaningful trip. Day and night, we moved from school to school and region to region to provide our services. Unlike having rotations in a fully equipped clinic, we had to learn to adapt ourselves to providing eye care services in basic and frequently changing conditions with only simple equipment. During the seven days of our trip, we managed to visit 5 schools in Qinghai and 5 schools in



Xinjiang. About 1,100 children were examined in total, and glasses were prescribed for those with significant refractive errors. Altogether, some 300 pairs of spectacles were prescribed.

The trip not only broadened our horizons, but it also enriched our optometric experience and developed our sense of responsibility to the community. Hopefully, there will be more opportunities in the future for us students and Optometrists to show our care by serving in the community.

Vision Screening for Underprivileged Local Schoolchildren

A campaign titled "Opening your eye, beautify your mind" was organized by a group of Year 3 Optometry students. It aimed at providing eye screening services to primary schoolchildren in Hong Kong from low-income families and to inculcate them with elementary eye care knowledge. The group worked with Shamshuipo Kaifong Welfare Association Primary School and 157 of its schoolchildren underwent vision screening on 25 February 2012. Dr. Do Chi-wai and Dr. Kee Chea-su of the School of Optometry served as advisors and consultants.



Vision screening was also organized for CNEC Ta Tung School, Cho Yiu Catholic Primary School and Shek Lei Catholic Primary School in June 2012, where a total of 1,026 schoolchildren benefited.

Inbound Exchange Students

5 Mar-19 May 2012

Sun Yat-sen University, China
*Miss Li Jiali, Miss Wang Yanzhao,
Miss Chen Yanxian, Miss Guo Xiaojuan*



4-15 Jun 2012

Tianjin Medical University, China
Miss Liu Xin, Miss Lin Lin, Mr. Wei Ye



25 Jun-10 Aug 2012

University of Waterloo, Canada
Mr. Wu Wai-sing, Vincent

27 May-10 Aug 2012

Ramkhamhaeng University, Thailand
Miss Napharat Tangyuenyongwatana

OUR RESEARCH

Astigmatism Prevalence Among Hongkongers



By Dr. Kee Chea-su, Assistant Professor

Astigmatism degrades visual quality, and the image degradation cannot be corrected by changing the working distance or by the eye's muscles. To study the prevalence and characteristics of astigmatism as a function of age in Hong Kong Chinese, a retrospective analysis of refractive error data was carried out on the 5,138 new clinical cases seen in 2007 at PolyU's Optometry Clinic.

In agreement with previous studies, our results showed that this clinical population also suffered from high prevalences of myopia (average = 59%) and astigmatism (average = 28%). The prevalences of both refractive errors varied with age. Alarming, young adults (21-30 years) had the highest prevalences of myopia (85%) and astigmatism (38%), but the elderly (>60 years) also showed a high prevalence of astigmatism (42%). When compared with emmetropes, those who had higher magnitudes of myopia also had higher risks (>1.9 times) for astigmatism, and high myopes were nearly 4 times more likely to have with-the-rule astigmatism. The ocular astigmatism in Hong Kong Chinese was primarily corneal in nature, bilaterally mirror symmetric in axis and predominantly with-the-rule.

These results suggest that Hong Kong Chinese are affected by not only myopia but also astigmatism. Because myopia and astigmatism are associated with abnormal posterior and anterior ocular structures, a longitudinal, large-scale, population-based study is strongly needed to understand how refractive errors are affecting the visual quality and ocular health in this population.



OUR RESEARCH

Conference Presentations

Presenter	Conference	Title of Presentation
Prof. Pauline Cho	Nederlands Contactlens Congress 2012 (Holland), 11-12 March 2012.	Orthokeratology for myopic control for myopic and astigmatic children (ROMIO & TO-SEE studies)
Prof. Pauline Cho	Nederlands Contact lens Congress 2012 (Holland), 11-12 March 2012.	Contact lens solutions Cytotoxicity, corneal staining & staining grid
Prof. Pauline Cho	Nederlands Contactlens Congress 2012 (Holland), 11-12 March 2012	Non compliance in contact lens wear
Prof. Pauline Cho	Nederlands Contactlens Congress 2012 (Holland), 11-12 March 2012	Orthokeratology research (for NKL)
Prof. Pauline Cho	Nederlands Contactlens Congress 2012 (Holland), 11-12 March 2012	Partial monovision using menicon Z nightlens: A case report
Ms. Connie Chen	The 8th Asia Cornea and Contact Lens Conference, Programme and Abstract book, pp.33 (Hong Kong), 26-27 April 2012	One year results of the toric orthokeratology – slowing eyeball elongation study
Prof. Pauline Cho	The 8th Asia Cornea and Contact Lens Conference, Programme and Abstract book, pp.23 (Hong Kong), 26-27 April 2012	Contact lens care moving towards 21st century – overview of 2011 contact lens care summit II, Melbourne. AMO lecture
Prof. Pauline Cho	The 8th Asia Cornea and Contact Lens Conference. Programme & Abstract book, pp. 35 (Hong Kong), 26-27 April 2012	Permanency of pigments on coloured contact lenses – a pilot study
Mr. Chan Ka Yin	The 8th Asia Cornea & Contact Lens Conference (Hong Kong), 26-27 April 2012	Fuchs' endothelial dystrophy - a case report
Ms. Wong Yin-zhi	The 8th Asia Cornea and Contact Lens Conference (Hong Kong), 26 -27 April 2012	The inter-observer variation of corneal sublayer pachymetry using slit-scanning confocal microscopy
Ms. Xiao Jingru	The Association for Research in Vision and Ophthalmology 2012 (USA), 6-10 May 2012	A study of the intracellular electrical properties and transport mechanisms of porcine pigmented and non-pigmented ciliary epithelial cells
Dr. Allen Cheong	The Association for Research in Vision and Ophthalmology 2012 (USA), 6-10 May 2012	Factors associated with falls in Hong Kong Chinese community dwelling
Mr. Siong Kar Ho	The Association for Research in Vision and Ophthalmology 2012 (USA), 6-10 May 2012	Dynamic visual function and its aging effect
Mr. Geoffrey Chu	The Association for Research in Vision and Ophthalmology 2012 (USA), 6-10 May 2012	Effects of the orientation of astigmatic errors on emmetropization in chicks
Ms Angela Cheng	The Association for Research in Vision and Ophthalmology 2012 (USA), 6-10 May 2012	cAMP promotes fluid transport across porcine ciliary epithelium by enhancing gap junctional permeability
Prof. George Woo	Hospital Authority Convention 2012 (Hong Kong), 7-8 May 2012	Vision screenings for stroke survivors

OUR RESEARCH

Presenter	Conference	Title of Presentation
Ms. Rita Sum	Hospital Authority Convention 2012 (Hong Kong), 8 May 2012	Referral agreement of optometry service in general outpatient clinic
Ms. Rita Sum	19th Wonca Asia Pacific Regional Conference (Korea), 24-27 May 2012.	How does optometrist service in general out-patient clinic affect referral pattern to ophthalmologists
Ms. Rita Sum	Hong Kong Primary Care Conference 2012 (Hong Kong), 2-3 June 2012	Eye care service in GOPC: collaboration of family medicine and optometry
Prof. George Woo	9th Optometry Conference of Sichuan Province (China), 14-16 June 2012	低視力ABC
Prof. Carly Lam	9th Optometry Conference of Sichuan Province (China), 14-16 June 2012	Management of binocular vision anomalies
Prof. Carly Lam	World Council of Optometry Conference (USA), 24-26 June 2012	Development of optometric services in the public sector in Hong Kong
Prof. To Chi-ho	The XX Biennial Meeting of the International Society for Eye Research (Germany), 21-25 July 2012	Micro RNAs differentially expressed in the retina during early ocular development and in induced myopia in a chick model
Dr. Jeremy Guggenheim	第三屆全國研究生論壇(China), 26-27 August 2012	Association, and inferring causality from observational data
Wang Jianchao	第三屆全國研究生論壇(China), 26-27 August 2012	The role of central retina in form-deprivation myopia in chicks
Zuo Bing	第三屆全國研究生論壇(China), 26-27 August 2012.	A proteomics study of guinea pig retina during the early emmetropization
Xiao Hu	第三屆全國研究生論壇(China), 26-27 August 2012.	Effect of apolipoprotein A-I rising drugs intake on eye growth
Prof. George Woo	IAPB Ninth General Assembly (India), 17-20 September 2012	The use of Instant Vision Assessment Device (IVAD) in determining refractive errors
Prof. To Chi-ho	The 4th ASEAN Optometric Conference (Malaysia), 30 September - 1 October 2012	Myopia Update
Prof. To Chi-ho	Hong Kong Orthokeratology Conference (China), 4-5 October 2012	Myopia: where do we stand and how do we control it
Prof. Carly Lam	4th International Optometric Conference (Korea), 17-18 October 2012	Updates on amblyopia assessment and treatment
Dr. Andrew Lam	American Academy of Optometry Annual Meeting 2012 (USA), 24-27 October 2012	Postural changes of intraocular pressure measured by rebound tonometry
Dr. Andrew Lam	American Academy of Optometry Annual Meeting 2012, Phoenix (USA), 24-27 October 2012.	Corneal elasticity measurement using OCT-based air-jet indentation system and its change with IOP
Miss Wong Yin-zhi	American Academy of Optometry Annual Meeting 2012, Phoenix (USA), 24-27 October 2012	Corneal biomechanical properties and choroidal thickness of emmetropes and high myopes
Mr. Chin Man-pan	American Academy of Optometry Annual Meeting 2012, Phoenix (USA), 24-27 October 2012	Electroretinal response to spatial frequencies in human eye

OUR RESEARCH

Presenter	Conference	Title of Presentation
Mr. Chan Ka-yin	American Academy of Optometry Annual Meeting 2012, Phoenix (USA), 24-27 October 2012	Corneal epithelial cell viability with an ex vivo porcine eye model
Mr. Chin Man Pan	American Academy of Optometry Annual Meeting 2012 (USA), 24-27 October 2012	Prevalence of refractive error and visual problems in ethnic minorities schoolchildren in Xinjing, China
Dr. Henry Chan	American Academy of Optometry Annual Meeting 2012 (USA), 24-27 October 2012	A pilot study on the changes of pattern visual-evoked potentials during reduced contrast adaptation
Dr. Allen Cheong	American Academy of Optometry Annual Meeting 2012 (USA), 24-27 October 2012	Validation of a new Chinese reading-acuity chart for clinical research
Prof. George Woo	Neurodevelopmental Conference (Hong Kong), 25 October 2012	An overview of paediatric low vision care

New Papers

Cho P, Cheung SW, Retardation of Myopia in Orthokeratology (ROMIO) Study: A 2-Year Randomized Clinical Trial. *Invest Ophthalmol Vis Sci* 2012;53:7077-85.

Barnard S, Shneur E, Brauner J, **Millodot M**, Gordon-Shaag A, Bilateral chorioretinal coloboma discovered with ultra-wide field retinal imaging. *Journal of Optometry* 2012;5:150-54.

Boost MV, **Shi G, Cho P**, Comparison of contamination rates of designs of rigid contact lens cases. *Optom Vis Sci* 2012;89:E1030-4.

Chan KY, Cheung SW, Cho P, Clinical performance of an orthokeratology lens fitted with the aid of a computer software in Chinese children. *Cont Lens Anterior Eye* 2012;35:180-4.

Chan KY, Cheung SW, Cho P, Nidek ConfoScan 4 (z-ring) measurements over soft contact lenses. *Eye Contact Lens* 2012;38:80-5.

Chen CC, Cheung SW, Cho P, Toric orthokeratology for highly astigmatic children. *Optom Vis Sci* 2012;89:849-55.

Ho DW, **Yap MK**, Ng PW, Fung WY, Yip SP, Association of High Myopia with Crystallin Beta A4 (CRYBA4) Gene Polymorphisms in the Linkage-Identified MYP6 Locus. *PLoS One* 2012;7:e40238.

Ho WC, Chu PH, Ng YF, Tong PP, Woo VC, **Chan HH**, Temporal interactive response is resistant to cloudy ocular media in the slow double-stimulation multifocal electroretinogram. *Br J Ophthalmol* 2012;96:1012-7.

Ho WC, Kee CS, Chan HH, Myopic Children Have Central Reduction in High Contrast Multifocal ERG Response, While Adults Have Paracentral Reduction in Low Contrast Response. *Invest Ophthalmol Vis Sci* 2012;53:3695-702.

Ho WC, Kee CS, Chan HH, Myopia progression in children is linked with reduced foveal mfERG response. *Invest Ophthalmol Vis Sci* 2012;53:20-25.

Hon Y, Cheung SW, Cho P, Lam AK, Repeatability of corneal biomechanical measurements in children wearing spectacles and orthokeratology lenses. *Ophthalmic Physiol Opt* 2012;32:349-54.

Lee TT, Cho P, Repeatability of relative peripheral refraction in untreated and orthokeratology-treated eyes. *Optom Vis Sci* 2012;89:1477-86.

Leung TW, Lam AK, Deng L, **Kee CS**, Characteristics of astigmatism as a function of age in a Hong Kong clinical population. *Optom Vis Sci* 2012;89:984-92.

Li J, Thompson B, Ding Z, **Chan LYL**, Chen X, Yu M, Deng D, Hess RF, Does partial occlusion promote normal binocular function? *Invest Ophthalmol Vis Sci* 2012;53:6818-26.

Lung JC, Swann PG, Wong DS, **Chan HHL**, Global flash multifocal electroretinogram: early detection of local functional changes and its correlations with optical coherence tomography and visual field tests in diabetic eyes. *Doc Ophthalmol* 2012;125:123-35.

Shenor E, **Millodot M**, Zyroff M, Gordon-Shaag A, Validation of keratometric measurements obtained with a new integrated aberrometry-topography system. *Journal of Optometry* 2012;5:80-86.

So RHY, Wong WS, Yip R, **Lam AKC, Ting P**, Benefits of matching accommodative demands to vergence demands in a binocular head-mounted display: A study on stereo fusion times. *Presence* 2011;20:545-58.

Song H, Liu L, Sum R, Fung M, **Yap MKH**, Incidence of diabetic retinopathy in a Hong Kong Chinese population. *Clin Exp Optom* 2011;94:563-7.

Vincent SJ, Collins MJ, Read SA, Carney LG, **Yap MKH**, Interocular symmetry in myopic anisometropia. *Optom Vis Sci* 2011;88:1454-62.

Upcoming Conferences / Seminars / Workshops

	Date & Venue	Details
Conferences	8 November 2012 Hong Kong Convention and Exhibition Centre, Hong Kong	The 10th Hong Kong Optometric Conference