

Visual ergonomics (VE) is a diverse field. Although many of us work within VE, it may not be labelled as such. Therefore it can be difficult to find out who is working within VE and what projects they are involved in.

The purpose of the IEA VE Technical Committee (TC) is to facilitate networking with like-minded colleagues. We have a website and a list of members. We also have this newsletter which is a vehicle for sharing news and information. Thank you to everyone who has contributed items to this edition which covers a broad range of VE topics and activities.

As 2016 draws to a close, I am happy to

report that we now have 81 members of our TC. This stems from humble beginnings in 2010 when we had five members. If you have any colleagues who wish to be a part of our network, please invite them to email me at jlong@visualergonomics.com.au so they can be added to the mailing list.

I hope that you enjoy reading this edition of the IEA VE TC newsletter, and that you have a safe and happy festive season.

Jennifer Long

IEA Visual Ergonomics TC Chairperson

Opportunities

Expressions of Interest—Visual Ergonomics Special Edition

Our IEA Visual Ergonomics TC is planning a visual ergonomics special edition for a peer-reviewed indexed (SCI or SCIE) scientific journal. The intention is to foster research in visual ergonomics and promote visual ergonomics in modern work spaces.

Do you have any work which could potentially be included?

At this stage we only require an expression of interest, with a title and 1-2 sentences about the intended content. If you are interested, please email Jennifer Long at jlong@visualergonomics.com.au

Expression of Interest—HCI International Conference in 2017

HCI International will be held in Vancouver, Canada, on 9-14 July 2017 <http://2017.hci.international/>. This conference will include a parallel session on “Human-Factors in Information Visualization and Decision Support Systems” (HFIDSS).

The aim of the HFIDSS session is to identify a research agenda for the intersection of Big Data, human-computer interaction and information visualization.

Prospective authors are invited to submit papers on the following topics, but not limited to Human Factors in Information Visualization, Human Factors in Decision Support Systems, Human Factors in Visual Analytics, Human Factors in Recommender Systems, Human Factors in Scientific Visualizations, Human in the Loop Data Analysis, Design Studies for Information Visualization, Usability and UX of Visualizations, Studies on Visualization Insight.

Are you interested in participating?

Prospective Authors should send an email to André Calero Valdez at calero-valdez@comm.rwth-aachen.de for an individual invitation.

Articles will be published in Springer LNCS.

Upcoming Events

HCI International,
Vancouver,
Canada

9-14 July 2017

<http://2017.hci.international/>

Nordic
Ergonomics
Society (NES)
Annual
Conference,
Lund, Sweden
20-23 August
2017.

<http://www.eat.lth.se/nas2017/>

CIE 2017 Midterm
meeting, Jeju
Island, Republic
of Korea, 24-27
October 2017

http://www.cie.co.at/index.php?l_ca_id=1001

IEA 20th
Triennial
Congress,
Florence, Italy
25th August—1st
September 2018.
<http://iea2018.org/>

Recent publications relevant to visual ergonomics

- 👁️ Lundqvist LO, Zetterlund C, Richter HO (2016) Reliability and validity of the visual, musculoskeletal and balance complaints questionnaire. *Optometry and Vision Science* 93(9): 1147-57 (open access)
- 👁️ Zetterlund C, Richter HO, Lundqvist LO (2016) Visual, musculoskeletal and balance complaints in AMD: A follow-up study. *Journal of Ophthalmology* <http://dx.doi.org/10.1155/2016/2707102>
- 👁️ Lindegård A, Nordander C, Jacobsson H, Arvidsson I (2016) Opting to wear prismatic spectacles was associated with reduced neck pain in dental personnel: a longitudinal cohort study. *BMC Musculoskeletal Disorders* 17: 347 <https://bmcmusculoskeletdisord.biomedcentral.com/articles/10.1186/s12891-016-1145-1>
- 👁️ Vision and Road Safety: Special issue of *Clinical and Experimental Optometry* <http://onlinelibrary.wiley.com/doi/10.1111/cxo.v99.5/issuetoc>

Early view:

- 👁️ Lee HS, Kim JY, Subramaniyam M, Park S, Min SN "Evaluation of quantitative glare technique based on the analysis of bio-signals" *Ergonomics* <http://www.tandfonline.com/doi/full/10.1080/00140139.2016.1251620>
- 👁️ Long J, Cheung R, Duong S, Paynter R, Asper L . "Viewing distance and eyestrain symptoms with prolonged viewing of smartphones" *Clinical and Experimental Optometry* <http://onlinelibrary.wiley.com/doi/10.1111/cxo.12453/full>

Congratulations!

VE member Jennifer Veitch (National Research Council of Canada) along with co-authors Konstantinos Papamichael, Michael Siminovitch (both from the University of California, Davis - California Lighting Technology Center) and Lorne Whitehead (University of British Columbia) received the 2016 Taylor Technical Talent Award from the Illuminating Engineering Society of North America for their paper "High Color Rendering Can Enable Better Vision without Requiring More Power", published in *Leukos*.



The award recognizes outstanding application papers published in any IES publication or at any national or regional IES conference during the preceding year. The work provided input to California's 2016 Building Energy Efficiency Standards and Appliance Efficiency Regulations. You can read the paper online here (open access): <http://www.tandfonline.com/doi/full/10.1080/15502724.2015.1004412>

Some sad news from the IEA

Professor Dr. Christopher Schlick passed away on October 3rd, 2016 at the age of 49.

Prof Schlick was the immediate past chair of the Science, Technology and Practice Standing Committee, which co-ordinated all of the IEA Technical Committees. He had also been a co-chair of the Work With Computing Systems Technical Committee within the IEA, which had worked with our Visual Ergonomics TC to have a joint parallel session at the IEA2012 Congress in Recife, Brazil.

We express our sincere sympathy to Prof Schlick's family and to his friends and colleagues within the IEA.

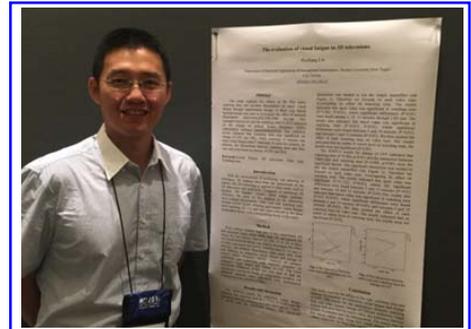
NEXT NEWSLETTER DEADLINE:
30th MARCH 2017
jlong@visualergonomics.com.au

Conference report: HCI International 2016

By **Frank Po-Hung Lin**

HCI International 2016 was held in Toronto, Canada, 17-22 July 2016. The two main themes this year were “Human-Computer Interaction” and “Human Interface and the Management of Information”. Jennifer J. Preece, professor and dean emerita at the University of Maryland, was an invited keynote speaker. Her topic was “Citizen Science: New Research Challenges for Human Computer Interaction”.

Parallel sessions were held during 20-22 July and included 219 sessions and more than 1200 papers. Topics included human aspects of information systems, cultural ergonomics, eye tracking in user experience research, human-centered research for smart user interface, ultra reality and virtual reality, innovative product design and development, aging and technology acceptance. There were also poster sessions with a total of 194 posters. Next year HCII 2017 will be held in Vancouver, Canada.



Frank Po-Hung Lin next to his poster
“The evaluation of visual fatigue in
3D televisions “

SNiS, Sweden

By **Ann-Kristen Nyström, chairman SNiS**

SNiS, the visual ergonomic network in Sweden, had a meeting on the 30th September 2016. It was a good meeting with committed participants. The agenda included the following topics: SIS TK 380 ergonomics—an overview of existing and ongoing standardization including visual ergonomics (Tomas Berns), pharmaceutical effects on eye motor skills (Jan Ygge), prism glasses during visually demanding work—a way to prevent neck pain (Agneta Lindegård Andersson), non-visual effects of light in schools and in workplaces (Tommy Govén) and improved methods for quantification of LED flickering with a mobile camera (Per Nylén).



Participants at SNiS

India's First Institute of Occupational Optometry & Visual Science

By **R Krishna Kumar**

In 2011, India's leading tertiary eye hospital, Sankara Nethralaya and Elite School of Optometry, initiated the first 'Occupational Optometry Services' in India. This unique service aims to offer onsite services at workplaces. The Hospital and School are planning to expand this service into an exclusive institution to train optometrists and healthcare people in eye and vision care. This will include matching task visual demands with individual visual ability of workers and safety concerns, as well as research and building bonds between the available knowledge and expertise and its beneficial use for end users. A foundation stone was laid on the 25th of March 2016, at Sricity, Andhra Pradesh, India, for the proposed “*Institution of Occupational Optometry and Visual Science*”, which is a huge investment initiative.

For more information, see <http://omlog.org/2016/05/the-art-and-science-of-vision-and-visual-systems-take-a-giant-step.html> and a paper published this year: Krishnakumar R, Rashima A, Santanam P.P. Occupational Optometry Service – An Overview, *Sci J Med & Vis Res Foun* 2016;XXXIV:20–22

Ergonomics in Europe

By **Marino Menozzi**

The Federation of the European Ergonomic Societies (FEES) was founded in 2003. It is a network which aims to foster recognition of ergonomics as an important contributor to economic development, quality of life, health and safety at work and social progress in European countries. This aim is challenging because there are 47 European countries, each with a different cultural imprint. Eighteen European countries are members of FEES, with the newest member the Ergonomic Society of Latvia, which was admitted on the 23rd November 2016. Despite the multicultural setting in Europe, the European center for registration of European ergonomists CREE (www.eurerg.eu) successfully achieved harmonization of the definition of knowledge and experience required to become a certified European Ergonomist. Ergonomists can apply to CREE for an accreditation certificate (title Eur.Erg.).