

IEA VE NEWS

IEA Visual Ergonomics Technical Committee Newsletter

April 2019

Welcome

Welcome to the April edition of the IEA VE TC newsletter.

Most probably, you are reading this newsletter on a display in your office. In this case, there is good chance that you are reading in a visual ergonomics friendly environment. In fact, the visual environment in offices should be configured with respect to recommendations in the ISO standards series 9241 “Ergonomic requirements for office work with display units (VDT’s)”, a huge standard covering visual and non-visual aspects of office work over hundreds of pages.

Surprisingly, visual ergonomics has been given less importance in other standards which include a considerable amount of visual tasks. For example, visual ergonomics content within regulations and standards for rearview mirrors or camera-monitor-systems (CMS) for construction machines is still in its infancy. This means that there is still a lot of hard work for visual ergonomists. My advice: Please do not read our newsletter on the CMS in your caterpillar or on your smartphone while driving.



With best wishes,

Marino Menozzi

Chair, IEA Visual Ergonomics TC

Mark your diaries

Conferences in 2019

CIE (International Commission on Illumination), CIE 2019 29th Quadrennial Session. Washington DC, USA. 14-22 June 2019. <http://www.cie.co.at/news/cie-2019-29th-quadrennial-session>

Nordic Ergonomics Society, “Future Work: Digitalisation and Innovation”, Elsinore, Denmark. 25-28 August 2019. <http://www.nes19.dk/>

The next IEA Triennial Congress

IEA2021—21st triennial congress, Vancouver, Canada. June 13-18, 2021. For more information, see <https://iea2021.org/>



Publications

Here are some journal articles by members of our network

Menozzi, M., Neumayer, N., Huang, Y.Y., Watanabe, A., Oyama, H., Fujimaki, G. Kondo, H., Izumi, S., Noro, K., 2019. **Ergonomic aspects in the design of instrumentation for ophthalmic microsurgery.**

Zeitschrift für Arbeitswissenschaft . (2019) 73: 23.

<https://doi.org/10.1007/s41449-018-00135-w>



Ying-Yin Huang, Marino Menozzi, Guido Beldi & Yves Brand (2019)

Training visual attention in a naturalistic visual environment,

Ergonomics, <https://doi.org/10.1080/00140139.2019.1576925>

Roberts, A. C., Yeap, Y. W., Seah, H. S., Chan, E., Soh, C. K., & Christopoulos, G. I. (2019). **Assessing the suitability of virtual reality for psychological testing.** *Psychological Assessment*, 31(3), 318–328.

<http://dx.doi.org/10.1037/pas0000663>



Rahchamani, MS, Zakeriyan A, Azam K (2018) **Comparative survey on the effect of fluorescent lamps and LED color temperature on staffs psychologically indicators at the office.** *Iran Occupational Health* 2018 (Oct-Nov) 15(5): 30-37.

Palavets T, Rosenfield M (2019) **Blue-blocking filters and digital eyestrain.** *Optometry and Vision Science* 96(1):48-54, January 2019, doi: 10.1097/OPX.0000000000001318

Jaiswal S, Asper L, Long J, Lee A, Harrison K, Golebiowski B (2019) **Ocular and visual discomfort associated with smartphones, tablets and computers: what we do and do not know.** *Clinical and Experimental Optometry* <https://doi.org/10.1111/cxo.12851>



Want to know how (and why) the IEA VE TC was created?

Jennifer Long (IEA VE TC chair 2012—2018) and Magne Helland (founding chair IEA VE TC, 2009—2012) prepared a short history of the IEA VE TC called “**The many faces of visual ergonomics—building an international visual ergonomics network**”. This was presented by Jennifer Long at the Human Factors and Ergonomics Society of Australia Annual conference in Perth, Australia, in 2018, in response to the conference theme “The many faces of human factors and ergonomics”.

The presentation has been made into a Powerpoint presentation with audio narration and can be viewed here: <https://www.youtube.com/watch?v=12o5f1w1wIU>

Conference reports

German Society for Work Science

Report by Marino Menozzi

The yearly spring conference of the German Society for Work Science (GfA) was held in Dresden (Germany). About 450 scientists, practitioners, and company managers attended the conference with more than 400 contributions including a broad variety of visual ergonomics topics such as alternating lighting systems, visual attention, visual inspection, peripheral vision, head mounted displays, and virtual and augmented reality. The GfA rewarded a few of the contributions with honors. In particular, the best poster award which was assigned to our executive committee member, Prof. Dr. Rudy Ying-Yin Huang for her contribution about the role of background and familiarity on presence and performance in virtual reality.

CIE Australia Lighting Research Conference 2019

Report by Jennifer Long

The inaugural Lighting Research Conference was hosted by CIE Australia on the 12th February 2019 in Sydney (Australia). The conference attracted about 40 delegates and boasted 17 speakers within the following streams: colour and vision, lighting design and performance, photobiology and wellbeing, and photometry, covering topics as diverse as lighting for artwork, visual performance in office environments, lighting in the home, visual perception, driving, blue light and circadian function.

It was a great opportunity for many of the PhD student presenters to introduce themselves and their research to the lighting community in Australia, and there was also plenty of time for delegates to network with each other during the day and afterwards at dinner.

A copy of the conference program and abstracts can be accessed at <http://www.cie.org.au/calreco2019.html>



Delegates at the CIE Australia Lighting Research conference. Photo: Tony Bergen

NEXT NEWSLETTER DEADLINE: 31st July 2019

Please send any visual ergonomics news or announcements to Jennifer Long at jlong@visualergonomics.com.au