

# IEA VE NEWS

IEA Visual Ergonomics Technical Committee Newsletter

April 2020

## Welcome

I hope this Newsletter finds you in good health.

What a time! We are forced to adapt strategies, invent new solutions, and almost everywhere around the world, we are asked to stay at home. Progress has not stopped but in many tasks of daily life, the way we proceed has drastically changed.

In agreement with colleagues, home office has led to a reduced efficiency at work, despite a perfect consideration of visual ergonomics (see Long J & Richter HO, Work, 2019; 63(7)) and lots of time savings as there is no need for commuting. However, a change of perspective from time to time increases the size and horizon of the visual field. While doing so, don't forget to "always look on the bright side of life". Always be safe!



With best wishes,

**Marino Menozzi**

Chair, IEA Visual Ergonomics TC

## Mark your diaries

### The next IEA Triennial Congress

IEA2021—21st triennial congress, Vancouver, Canada. June 13-18, 2021.

For more information, see <https://iea2021.org/>



### Call for participation in special sessions

We have the opportunity to submit proposals for special sessions at the congress. Would you like to participate? If so, please send an expression of interest email to the relevant contact person (below) by 30 May 2020:

- ◇ **Visual Ergonomics and Lighting.** Please email Jennifer Long, [jlong@visualergonomics.com.au](mailto:jlong@visualergonomics.com.au)
- ◇ **Ergonomics in the Surgery Room.** Please email Marino Menozzi, [mmenozzi@ethz.ch](mailto:mmenozzi@ethz.ch)
- ◇ **Accessible and usable for all, indoor visual environments** (a joint session with the IEA Technical Committee: Ergonomics in Design for All). Relevant visual ergonomics topics could include, but are not limited to, visual contrast, lighting and colour. Please email Isabella Steffan, [info@studiosteffan.it](mailto:info@studiosteffan.it)

## Student news



**Sajad Ahmad Najar** received a PhD degree from the Indian Institute of Technology Indore on November 16, 2019. His doctoral work “Visuospatial Working Memory and Distracted Driving: Deciphering Gaze Behavior, Cognitive Workload, and Driving Errors” was conducted under the guidance of Dr. Sanjram P. Khanganba at the Human Factors & Applied Cognition Lab of the Indian Institute of Technology Indore.

Immediately after his viva voce exam, Sajad was offered a faculty position in the Department of Psychology, Central University of Punjab. He also teaches at the Indian Institute of Management Rohtak (IIMR) as a visiting faculty for Integrated Program in Management (IPM).

Here are three publications arising from Sajad’s doctoral work;

- ◇ Najar, S., & Sanjram, P. K. (2018). **Gaze Behavior and Human Error in Distracted Driving: Unlocking the Complexity of Articulatory Rehearsal Mechanism**, *Transportation Research Part F: Psychology and Behaviour*, 59, 12-23. <https://doi.org/10.1016/j.trf.2018.08.005>
- ◇ Najar, S., & Sanjram, P. K. (2019, online early). **Driving Errors and Gaze Behavior During In-vehicle Object and Spatial Distractions**, *Journal of Transportation Safety and Security*. <https://doi.org/10.1080/19439962.2019.1611683>
- ◇ Najar S., & Sanjram, P.K. (2019). **Suppressed Articulatory Rehearsal Mechanism and Driving Errors**. In: Bagnara S., Tartaglia R., Albolino S., Alexander T., Fujita Y. (eds) *Advances in Intelligent Systems and Computing*, vol 823, 56-61. [https://link.springer.com/chapter/10.1007/978-3-319-96074-6\\_6](https://link.springer.com/chapter/10.1007/978-3-319-96074-6_6)

## Congratulations

**Rudy Ying-Yin Huang** has been promoted to associate professor at the Department of Industrial Engineering & Management, National Taipei University of Technology.

## Publications

### Here are some journal articles by members of our network

- ◇ Hemphälä H, Osterhaus W, Larsson PA, Borell J, Nylén P (2020, online early). **Towards better lighting recommendations for open surgery**, *Lighting Research & Technology*. <https://doi.org/10.1177/1477153520903355>
- ◇ Lukman AL, Bridge C, Dain SJ, Boon MY (2020) **Luminance contrast of accessible tactile indicators for people with visual impairment**. *Ergonomics in Design* 28(2): 4-15. <https://doi.org/10.1177/1064804619841841>
- ◇ Ropelato, S, Menozzi, M, Michel, D, Siegrist, M, (2020) **Augmented Reality Microsurgery: A Tool for Training Micromanipulations in Ophthalmic Surgery Using Augmented Reality**, *Simulation in Healthcare* 15(2); 122-127. <https://doi:10.1097/SIH.0000000000000413>
- ◇ Rosenfield M, Li RT, Kirsch NT (2020) **A double-blind test of blue-blocking filters on symptoms of digital eye strain**. *Work* 65(2): 343-348. <http://doi:10.3233/WOR-203086>
- ◇ Veitch JA & Martinsons C (2020, online early). **Detection of the stroboscopic effect by young adults varying in sensitivity**. *Lighting Research & Technology*. <https://doi.org/10.1177/1477153519898718>.

# Conference Reports

## CIE Australia Lighting Research Conference 2020 (CALREC 2020)

By Jennifer Long

The second CIE Australia Lighting Research Conference was held in Brisbane, Australia, on the 11th February 2020. It attracted 28 participants, with 19 presentations on topics such as colour and vision, lighting design and performance, photobiology and wellbeing (blue blocking lenses, circadian function), and photometry. A copy of the conference abstracts is available at:

<http://www.cie.org.au/Conference%20Programme%20-%20CIE%20Australia%20Lighting%20Research%20Conference%202020%20v2.0.pdf>



*Participants at CALREC 2020. Photo: Tony Bergen*

## German Society for Work Science

By Marino Menozzi

“Ich bin ein Berliner”, said John F Kennedy (USA president), in a speech held in West Berlin on June 26 1963. This statement would also have applied to attendees of the spring congress of the German Society for Work Science (GfA) held in March 2020. Due to the COVID-19 virus issue, the physical congress in Berlin mutated to a globalized virtual one, with attendees from Germany, Switzerland, Austria, France, Netherlands, Canada, Taiwan, and Japan. Initial technical issues in handling many sessions in parallel were fixed by serializing or pre-recording the sessions. Among many virtual contributions, several presentations addressed recent works on visual ergonomics related to visual attention, use of microscopes, and virtual reality.

**NEXT NEWSLETTER DEADLINE: 31st July 2020**

Please send any visual ergonomics news or announcements to Jennifer Long at  
[jlong@visualergonomics.com.au](mailto:jlong@visualergonomics.com.au)