

IEA Visual Ergonomics Newsletter—August 2018

The International Ergonomics Association Triennial Congress (IEA2018) is just around the corner. Our Visual Ergonomics Technical Committee (IEA VE TC) will be hosting four parallel sessions during the congress, and our members will be participating in poster sessions, symposia and other TC streams. Congratulations to everyone who is participating! The conference proceedings will soon be available. Our TC will also be holding a General Meeting during the congress. For me, this marks 6 years as the Chair of the IEA VE TC and under the IEA rules, it is time for me to step down as Chair. I would like to take this opportunity to thank Magne Helland and Hans Richter who encouraged me to be the

Chair in 2012. I would also like to thank all of you who have supported the IEA VE TC over the past 6 years: the Executive (Hans Richter, Magne Helland, Marino Menozzi and Hillevi Hemphälä), newsletter contributors, IEA Congress abstract reviewers, IEA Congress participants, the Nordic Ergonomics Society for laying the groundwork for a visual ergonomics definition, and Karen Jacobs (editor of WORK) who in 2012 supported us in publishing a visual ergonomics special issue of WORK.

It has been a great honour to be the IEA VE TC Chair and I have thoroughly enjoyed the experience.

Jennifer Long

IEA Visual Ergonomics TC
Chairperson

Visual Ergonomics at IEA2018

Four parallel sessions:

- ⌚ Wednesday 29th August: 6pm—7:30pm (6 papers)
- ⌚ Thursday 30th August: 9:45am—11am (6 papers)
- ⌚ Thursday 30th August: 11:30am—1pm (7 papers)
- ⌚ Thursday 30th August: 3pm—4:30pm (5 papers)



General meeting:

Tuesday 28th August 6pm—7pm
This is open to all IEA VE TC members.
If you are at the conference, please come along so that we can meet you.

Poster session:

Thursday 30th August
12:30pm—2pm

Symposium:

Monday 27th August: 11:30am—1pm
Ergonomics and Human Factors in Radiology: A good test bed for a systemic approach to the visual, organizational and cognitive ergonomics issues
(2 presentations within this symposium are specific to visual ergonomics)

Plus many other presentations relevant to visual ergonomics within other streams e.g. lighting, low vision, robotics, driving, human-computer interaction.

Meeting reports

International Commission on Illumination (CIE) By Jennifer Veitch

The International Commission on Illumination (CIE) has formed a Research Forum for information exchange on work related to temporal light modulation of lighting systems (also known as flicker). Active researchers interested in this topic are welcome to join. More information and the application form are available online at: <http://cie.co.at/researchforum/rf-02>

SNiS (Visual Ergonomics network, Sweden)

By Ann-Kristin Nyström

SNiS (The visual ergonomic network in Sweden) has been having regular meetings since 2005. The meeting on the 20th April 2018 included the following topics.

- ⦿ The effect of glare on binocular and reading behaviour in connection with computer work. When the visual environment is impaired, such as in the presence of direct and indirect glare, additional stress is added to the visual system. (*Susanne Glimne*)
- ⦿ VERAM (Visual Ergonomics Risk Assessment Method) has two versions: a light version and a more comprehensive version. It can be used in Sweden to help workplaces achieve compliance with regulations that prescribe investigation into visual conditions to find out if they have negative effect on work positions and work movements (*Per Nylén*)
- ⦿ Better working method at checkouts. Working with continuous twisted neck is related to pain, but it raises 2 challenging questions. What should be prioritized—the scanner or the money checkout box? How to measure neck rotation? (*Peter Palm*)
- ⦿ How the Mayan Indians in Tulum led boats with the help of light. (*Ann-Kristin Nyström*)
- ⦿ A program to prevent eye strain. Eye-Leo is a PC application that regularly reminds you to give your eyes a short recurring break. (*Ann-Kristin Nyström*)
- ⦿ Per Nylén also gave a brief introduction about a new method for calculating enough daylight. This will be discussed in more detail during the autumn SNiS meeting on October 5.

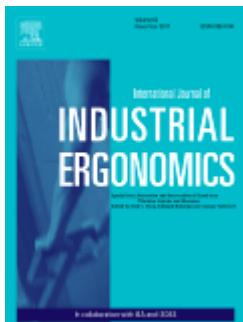


Members of SNiS at their meeting in April 2018

Recent publications

- ⦿ Mork R, Falkenberg HK, Fostervold KI, Thorud HMS (2018) Visual and psychological stress during computer work in healthy, young females-physiological responses. *Int Arch Occup Environ Health*. 2018 May 30. doi: 10.1007/s00420-018-1324-5.
- ⦿ Zetterlund C, Lundqvist L-O, Richter HO (2018) Visual, musculoskeletal and balance symptoms in individuals with visual impairment. *Clinical and Experimental Optometry* (2018) DOI:10.1111/cxo.12806
- ⦿ Boyce PR and Wilkins, A (2018) Visual discomfort indoors. *Lighting research and technology* 50: 98-114
- ⦿ Long J (2018) Expanding the horizons of optometry practice: A visual ergonomics perspective. *Vision magazine online*. Available at: <http://visionmagazineonline.co.za/2018/05/28/expanding-the-horizons-of-optometry-practice-a-visual-ergonomics-perspective/>

NEXT NEWSLETTER DEADLINE: 30th NOVEMBER 2018 jlong@visualergonomics.com.au



CALL FOR PAPERS

Virtual Special Issue on the topic of Visual Ergonomics

**International Journal of Industrial Ergonomics
(Elsevier)**

Visually demanding tasks are a feature of many workplaces (e.g. office work, control rooms, quality control, driving). If visual ergonomics elements are not addressed within these tasks, then this can affect safety, quality, productivity and comfort.

The aim of this special issue of The International Journal of Industrial Ergonomics is to present cutting edge visual ergonomics research relevant to workplaces. Topics may include:

- New display technologies related to visual ergonomics, e.g. 3D displays, head-up and head-mounted displays, see-through displays, augmented and virtual reality, collaborative spaces, autonomous vehicles, small digital devices.
- Lighting.
- Workforce factors related to visual ergonomics e.g. ageing and vision, visual fatigue, multicultural aspects within globalized companies.
- Visual tasks within the context of other work functions e.g. cognitive aspects of digital interfaces, design of control rooms and control suites, eye protection.
- Regulatory aspects e.g. workplace legislation addressing visual ergonomics issues, visual ergonomics assessment techniques.

Types of papers which will be considered include theoretical advances, applications, case studies, empirical studies, and new methodologies and procedures.

KEY DATES:

- The portal for submitting a manuscript OPENS on the 1st September 2018 and CLOSES on the 1st December 2018. The guide for authors can be found here:
<https://www.elsevier.com/journals/international-journal-of-industrial-ergonomics/0169-8141/guide-for-authors>
- Papers accepted for publication will be assigned a unique identifier and then published in a regular journal issue as soon as available (so you won't need to wait for the final article to be ready before publication).
- In approximately December 2019, a virtual special issue will be created on ScienceDirect. Each article will retain its original citation details, but will be grouped with other articles within the virtual special issue. This will allow readers to easily access and navigate the papers.

For more information, please contact the Managing Guest Editor, Marino Menozzi,
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This project is an initiative of the IEA Visual Ergonomics Technical Committee