

# The First International Symposium on Visually Induced Motion Sickness, Fatigue, and Photosensitive Epileptic Seizures (VIMS2007)

10 – 11 December 2007  
The Hong Kong University of Science and Technology  
Hong Kong



## Call for Papers

ISO (International Standard Organization) document IWA3(2005) on Image Safety recognizes that visually induced motion sickness (VIMS), visual fatigue, and photosensitive epileptic seizures (PES) are the major biomedical concerns in conjunction with image safety. In October 2006, during a CIE (Commission Internationale de L'eclairage or the International Commission on Illumination) Technical Committee (TC1-67) meeting on image safety, members have suggested that a regular symposium on VIMS and visual fatigue should be organized. This symposium is the first international scientific meeting to focus on VIMS as well as to bring scientists from the three fields under one roof.

### Major Themes of VIMS2007

The major topics of the symposium include:

- *Theories and etiology of VIMS, visual fatigue, and photosensitive epileptic seizures (PES)*
- *Neuro-mechanisms correlate with symptoms of VIMS, visual fatigue, and PES*
- *Pharmaceutical aspects and drug development*
- *Empirical studies on VIMS, visual fatigue, and PES*
- *Computational models and sickness prediction*
- *Display designs and diagnostics equipment*
- *Game development and medical concerns for child viewers*
- *Social aspects, regulations and standardization*

### Important Dates

Abstract Deadline	26 March 2007
Acceptance Notification	5 May 2007
Full-length Paper Due	5 August 2007
Early Registration	5 August 2007

### Abstract Submission

Contributions on all aspects of visually induced motion sickness, visual fatigue, and photosensitive epileptic seizures are invited for oral presentations at the conference. An electronic form (in MS-Word or PDF format) of one-page abstract (a minimum of 200 words) with paper title, author names, affiliations, and the corresponding author's phone/fax number and e-mail address should be submitted to the Secretariat of VIMS2007 via the email: [vims2007@ust.hk](mailto:vims2007@ust.hk)



## Symposium Chair of VIMS2007

Richard So, *The Hong Kong Univ. of Science & Technology*

## Local Scientific Committee

Raymond Cheung, *University of Hong Kong*  
Andrew Lam, *Hong Kong Polytechnic University*  
Richard So, *The Hong Kong Univ. of Science and Technology*



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*Prof. Mark Turner, United Kingdom*  
*Prof. Hiroyasu Ujike, Japan*  
*Prof. Kazuhiko Ukai, Japan*  
*Prof. Arnold J. Wilkins, United Kingdom*  
*Prof. John Wilson, United Kingdom*  
*Prof. Makoto Yoshizawa, Japan*

## Keynote speakers

### **Prof. Graham Harding**

graduated in psychology from University College in London, in 1961. He obtained a PhD in EEGs and Psychiatry from Birmingham University and a DSc from the University of Aston. In 1998, he was awarded Honorary Membership of the Royal College of Physicians, for outstanding contributions to medicine. He established the Clinical Neurophysiology Unit at Aston University in 1963, and has headed it since that date. He has more than 250 publications in the field of electroencephalography and visual evoked potentials. He is President of the British Society for Clinical Neurophysiology, a Fellow of the British Psychological Society and a Chartered Psychologist. He has delivered numerous named and invited lectures. One of his special areas of interest is photosensitive epilepsy, a subject on which he has published two books and many papers. He has also carried out the largest study of a photosensitive population in the world. Many of these studies have been carried on over a period of 35 years. He is the consultant adviser to the BACC on problems of photosensitivity and televised material and assisted in the drafting of the ITC Guidelines. He also drafted the guidelines for the Commercial Broadcasters Association of Japan, and NHK (Public Broadcasting Corporation).



### **Prof. Robert Kennedy**

has over 45 years of experience as a human factors professional. Twenty-two years were on active duty with the U.S. Navy and the past 23 years as a human factors scientist in industry. His publication list consists of >550 items and include: book chapters, journal articles and technical reports. Currently, his scientific studies encompass: development of computerized tests of human capability (vision, perception, cognition, psychomotor skill, posture, and balance); effects of practice on information processing; disorientation and motion sickness; human-computer interaction and visual requirements for flight simulators & virtual reality devices; and human performance measurement. The distribution of his unclassified work includes: performance testing and human factors



engineering (30%), motion sickness, disorientation, and vestibular functions (30%), vision and visual perception (25%), selection, training, and training equipment (15%). He has produced book-length works in the areas of simulator sickness, temporal factors in visual displays, physiological measures of workload, and vestibular problems in diving. He is the President of RSK Assessments, Inc. with a research budget of >US\$1M per year. He teaches in the Human Factors program of the Psychology Department at the University of Central Florida. He is co-author of a section of a military standard and a field manual for avoiding simulator sickness.

### **Prof. Arnold Wilkins**

is the director of the Visual Perception Unit at the University of Essex. He obtained a doctorate from Sussex University for work on human memory. He then spent two years at the Montreal Neurological Institute (1972-1974) where he became interested in epilepsy. He returned to England to work as a research scientist at the Medical Research Council Applied Psychology Unit, Cambridge (1974-1997). He joined the University of Essex in December 1997. Professor Wilkins' initial studies of epilepsy and techniques for treatment led to research on vision and health. In 1984 it became evident that certain patterns can provoke pattern glare and this led to the discovery in 1988 that fluorescent lighting causes headaches and eye-strain because of the invisible flicker it emits. In 1991 a system for ophthalmic tinting was designed, followed in 1995 by coloured overlays, now in use in optometric and ophthalmic practice. In 1995 a unified theory of visual stress, was proposed, see *Visual Stress* (Oxford University Press, 1995). The theory has found application in a study of the effects of coloured filters on reading, as described in his most recent book *Reading Through Colour* (Wiley, 2003). Prof. Wilkins is currently investigating the way in which visual and visuo-perceptual difficulties contribute to reading disorders.



### **Registration**

The standard registration fee will be USD400 and a reduced fee of USD200 applies to full-time students. The standard registration covers all conference activities, including proceedings, reception, refreshments, lunches and banquet (not for student registration). Further details can be found on [www.VIMS2007.org](http://www.VIMS2007.org)

### **Accommodation**

A wide range of accommodations will be available, starting from USD80 (3-star hotel) to USD180 (5-star hotel) per night depending on the location and facilities. Further information will be announced in March 2007.

### **Correspondence**

For further information, please check the website at <http://www.VIMS2007.org>

Other enquiries should be directed to:

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