

影像色彩世界的新趨勢 - 從CIE DIV. 8 看天下

2015 CIE第28屆大會
8.12.2015

大綱

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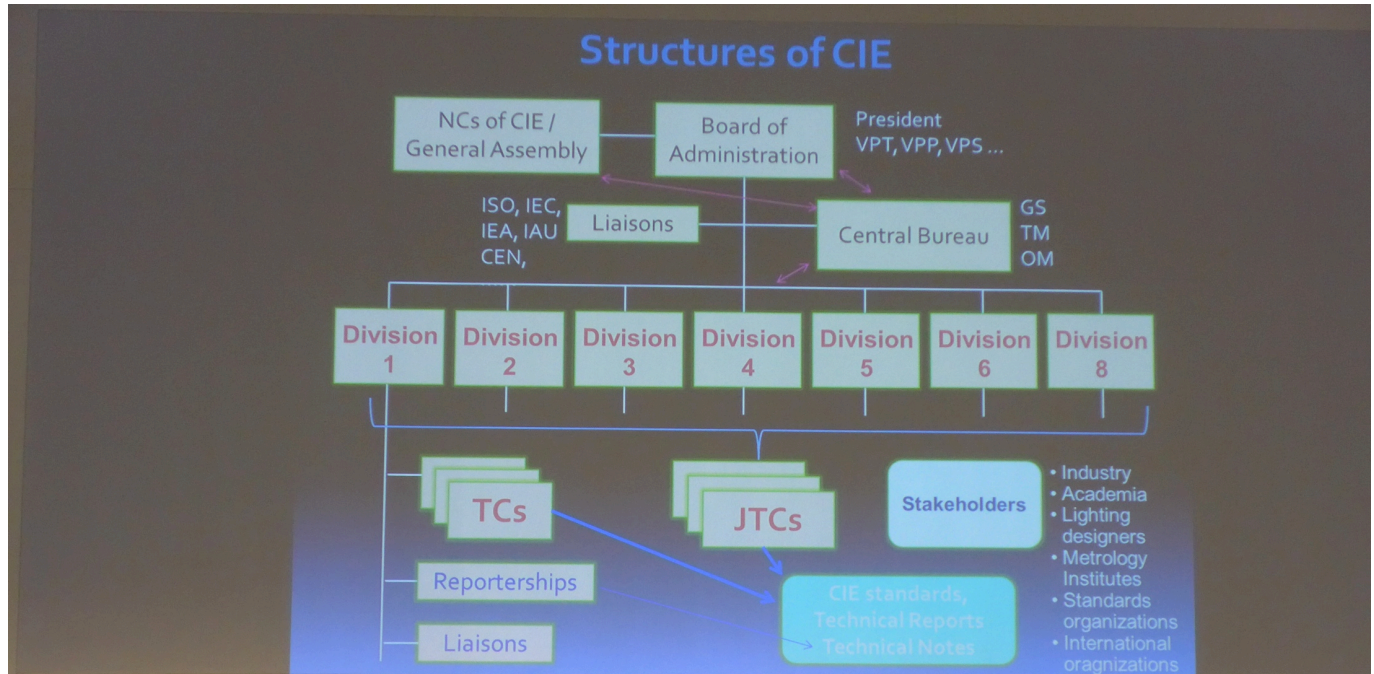


CIE Manchester 大會



CIE Divisions

□ 分工



Div. 8 Imaging Technology

Division 8

Director: Dr Po-Chieh Hung

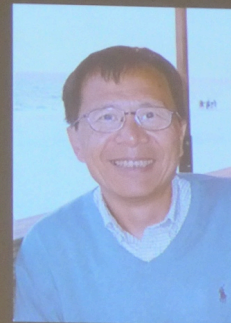


Image Technology

Terms of Reference:

To study procedures and prepare guides and standards for the optical, visual and metrological aspects of the communication, processing and reproduction of images, using all types of analogue and digital imaging devices, storage media and imaging media



Div. 8 Meeting

- Chair: Po-Chieh Hung (洪博哲)
- Secretary: Christine Fernandez-Maloigne
- 33 participants (25 present persons and 8 via internet), 7 NC



Div. 8 Members

□ 現場出席者



TC Status

- **TC 8-07: Multispectral Imaging, Masahiro Yamaguchi (JP), 2004.**
 - 16 members
 - Technical Report on “Multispectral image format.” under revision for CD. Information available www.multispectral.org
- **TC 8-09: Archival Colour Imaging, Robert Buckley (US), 2005 (重新啟動)**
 - 6 members
 - 17 cultural heritage institutions participate in studies.
 - New TC chair: Melitte Buchman, Bobst Library of New York University (US)

TC Status

- **TC 8-10: Office Lighting for Imaging, Yasuki Yamauchi (JP), 2005**
 - ▣ Yasuki Yamauchi CLOSE TC8-10
 - ▣ New reportship, R8-13, about Office Lighting for Imaging, terms of reference: *To publish a Technical Note on the spectral power distribution and illumination levels used to view images in office lighting conditions*

- **TC 8-11: CIECAM02 Mathematics, Changjun Li (CN), 2007**
 - ▣ TC chair Changjun Li has to be changed

TC Status

- **TC8-12: Image and Video Compression Assessment, Christine Fernandez- Maloigne (FR), 2007**
 - Pascal Bourdon, from Poitiers University (FR), TC Chair to finalize the Technical Report in 2016.

- **TC 8-13: Colour Gamuts for Output Media, Kiran Deshpande (GB), 2013**
 - Next meeting will held on July 6 by Webex.

- **TC8-14 Specification of Spatio-Chromatic Complexity, Noël Richard (FR), 2015**
 - Noël Richard chair this new TC
 - Terms of references: *“To produce a state-of-the-art report on the existing definitions of the complexity notion related to the aspect of non-uniform surfaces, generally defined as textured. To combine these definitions in order to produce a single definition embedding both spatial and chromatic variations in a generic and vector form.”*

Reporterships

- **R 8-09: Output Linearization Methods for Display and Printers, Klaus Richter (DE), 2011**
 - ▣ Final report on the division 8 web site

- **R 8-10: Full-Reference Image Quality Metrics: Classification and Evaluation, Marius Pedersen (NO), 2012**
 - ▣ Completed and closed

- **R 8-11: Colour Image Reproduction for 3D, Kaida Xiao (UK), 2013**
 - ▣ Kaido Xiao presented the work of R 8-11 Printing, the outline, the technology limits and the plans for the future.

Reporerships

- **R 8-12: Multi-view Image/Video Colour Data Format Conversion and Quality, Hezerul Abdul Karim (MY), 2013**
 - ▣ Tan Ching Seong, representative for Malaysia, presented
 - ▣ Completed and closed

- **R8-13; Common colour appearance, Craig Revie (UK), 2015**
 - ▣ New TC : TC8-15 Common colour appearance
 - ▣ to investigate the concept of common colour appearance (psychophysical and quantitative assessment; identify key elements underlying the concept ; define a metric or set of metrics to quantify).

新議題

- R8-15, A survey on Quality Metrics on Stereoscopic Imaging
- Christine Fernandez-Maloigne (FR), Jesus Jaime Moreno (MX) and Alessandro Rizzi (IT)

影像科技的趨勢

- 從單張靜態影像發展至
 - ▣ 立體的影像 (R8-11)
 - ▣ 連續性的影像(R8-12)
 - ▣ 表面質感特性與外貌色彩(TC8-14, TC8-15)
- 影像品質 (R8-10)
- 多頻譜影像
 - ▣ 檔案格式 (TC8-07)
 - ▣ 數位典藏應用 (TC8-09)
 - ▣ 新興領域

閉幕



- 謝謝收看
- 請指教

