

**CIE Expert Symposium: 75 Years of the CIE Standard Observer
Ottawa, Canada**

Monday, 15 May 2006

17:00 – 19:00 *Reception at the Sheraton Ottawa Hotel*

Tuesday, 16 May 2006

07:30 & 07:45 Bus transportation from hotel to NRC Sussex

08:00 - 09:00 *Registration & continental breakfast*

09:00 - 09:05 Welcoming address

09:05 - 09:10 Opening remarks

SESSION 1: Standard Observers

Chair: Michael Pointer

09:10 - 09:45 Origins and history of the Standard Observers, *Françoise Viénot*

09:45 - 10:20 Open problems on the validity of Grassmann's Laws, *Michael H. Brill*

10:20 - 10:45 *Refreshment break*

SESSION 2: Colour Matching Functions

Chair: János Schanda

10:45 - 11:20 Physiologically-based colour matching functions, *Andrew Stockman and Lindsay T. Sharpe*

11:20 - 11:40 Colour matching based on fundamental spectral sensitivity functions, *Péter Csuti*

11:40 – 12:00 Individual difference of color matching functions and its cause, *Y. Nakano, Y. Nakayasu, H. Morita, K. Suehara, J. Kohda and T. Yano*

12:00 - 12:20 Test of the transformation of primary space: forward- and inverse-matrix methods, *Boris Oicherman, Ronnier Luo and Alan Robertson*

12:20 - 12:40 Studies on colorimetry, the Stiles-Crawford Effects I & II, and fiber optics properties in the laboratory of W.S. Stiles at the NPL, Teddington, *Jay M. Enoch*

12:40 - 13:40 *Lunch*

SESSION 3: Instruments and Standards

Chair: Ronnier Luo

13:40 - 14:15 CIE recommendations and standards on colorimetry, what next, *János Schanda*

14:15 - 14:35 A new method for calibrating colorimeters, *Maria Luisa Rastello*

14:35 - 14:55 Development of the NIST detector-based color temperature scale, *George Eppeldauer and Yoshi Ohno*

14:55 - 15:15 Full 3D BSDF spectroradiometer, *F. Leloup, T. De Waele, P. Hansalaer and M. Pointer*

15:15 - 15:35 An active vision system for 3D surface colour measurements, *A. Balsamo, A. Chimienti, P. Grattoni, R. Nerino, G. Pettiti, M.L. Rastello and M. Spertino*

15:35 - 16:00 *Refreshment break*

SESSION 4: Temporal and Spatial Issues

Chair: Hirohisa Yaguchi

16:00 - 16:20 Spatial and chromatic properties of negative afterimages, *L. Beke, Györe, A. Lénár and P. Bodrogi*

16:20 - 16:40 Additive colour mixing model based on human color vision, *Takako Nonaka, Morimasa Matsuda and Tomohiro Hase*

SESSION 5: Miscellaneous

Chair: Robert Buckley

16:40 - 17:00 The colour of the Canadian flag, *Alan R. Robertson*

17:05 & 17:20 Bus transportation to hotel

18:00 & 18:20 Bus transportation from hotel to Canadian Museum of Civilization

18:15 - 19:00 *Cash bar*

19:00 - 21:00 *Banquet*

21:30 Bus transportation to hotel

Wednesday, 17 May 2006

07:30 & 07:45 Bus transportation from hotel

08:00 - 09:00 *Continental breakfast*

SESSION 6: Colour Appearance 1

Chair: Todd Newman

09:00 - 09:35 CIE colour appearance models: their past and future, *Robert W.G. Hunt*

09:35 - 10:10 Color appearance in image displays, *Mark D. Fairchild*

10:10 - 10:30 Color appearance of aged observers, *Gábor Kutas, Youngshin Kwak, Peter Bodrogi, Du-Sik Park, Seong-Deok Lee, Heui-Keun Choh and Chang-Yeong Kim*

10:30 - 11:00 *Refreshment break*

SESSION 7: Colour Appearance 2

Chair: Françoise Vienot

11:00 - 11:20 Standards for color legibility, *Thomy Nilsson*

11:20 - 11:40 Scaling of comfort for a colored scene and development of a colour comfort meter, *Ken Sagawa, Soichi Takazawa, Tatsuo Saito and Toshikazu Doi*

11:40 - 12:00 Span of colors similarities of the low vision, *Nana Itoh and Ken Sagawa*

12:00 - 13:30 **POSTER SESSION:**

Pick up a Gourmet Lunch Box in the Library and Speak to the Presenters
Conspicuity of blinking LED lights with various temporal frequency and duty ratio, Miyoshi Ayama, Takanobu Fujama, Hitomi Fujii, Gennji Yanamoto, Norihiro Ikeda and Masanori Nagata

Local contrast for no-reference colour quality assessment, B. Bringier, N. Richard and C. Fernandez-Maloigne

Mathematical properties of the RGB chromaticity diagram inconsistent with the three-cone theories of color vision, Vitaly V. Gavrik

Trials on integrating spatial information in color appearance models, Mohamed-Chaker Larabi, Olivier Tulet and Christine Fernandez-Maloigne

Intransitive colour matching and metamerism, Alexander D. Logvinenko
Device dependent linear relative CIELAB data lab* and colorimetric data for corresponding colour input and output on monitors and printers, Klaus Richter

The colorimetric capability developed at NIM-Romania, Mihai Simionescu and Amadeu Seucan

About a method to predict M-cone and L-cone photopigments from colour-matching functions, Françoise Viénot

SESSION 8: Colour differences

Chair: Joanne Zwinkels

13:30 - 14:05 Colour difference formulae: past, present and future, M. Ronnier Luo

14:05 - 14:25 Evaluation of color difference formulae for color rendering metrics, Wendy Davis and Yoshi Ohno

14:25 - 14:45 Color matching functions for a perceptually uniform RGB space, Joanna Marguier and Sabine Süssstrunk

14:45 - 15:05 Looking for potential indicators of human tetrachromacy, Zoltán Jakab and Klára Wenzel

15:05 - 15:25 Establishing the statistical limits of “normal” chromatic sensitivity, John L. Barbur, Marisa Rodriguez-Carmona and Alister Harlow

15:25 - 15:50 *Refreshment break*

SESSION 9: Colour Management

Chair: Mark Fairchild

15:50 - 16:25 The use of the CIE 1931 Standard Observer in digital colour management, Todd Newman

SESSION 10: Conclusions

Chair: Sharon McFadden

16:25 - 17:15 Roundtable discussion

17:15 - 17:30 Closing remarks

17:35 & 17:50 Bus transportation to hotel