

# AIC

AIC Interim Meeting  
Colorimetry  
September 3-6, 1995  
Mauerstr. 32  
10117 Berlin



## Program

### Sunday, Sept. 3, 1995

- 10.00 Executive Committee (BAM)  
15.00 - 18.00 Setting up of the exhibition of Colorimeters (Mauerstr.)  
19.00 - 22.00 Registration and Welcome Reception in:  
Brauhaus im Nicolaiviertel, Spreeufer 4

### Monday, Sept. 4, 1995

- 8.00 - 9.00 Registration at Mauerstr. 32, 10117 Berlin (Center)  
9.00 - 9.15 AIC President, Prof. Dr. Lucia Ronchi  
Opening of the AIC Interim Meeting

#### Invited Paper

- 9.15 - 10.00 F. Simon  
What's new in material standard
- 10.00 - 10.30 Coffee Break

#### Contributed Papers

- 10.30 - 10.50 D. Gundlach  
Excitation and weighting of fluorescence in  
colorimetry
- 10.50 - 11.10 R. Griesser  
CIE whiteness and tint: possible improvements
- 11.10 - 11.30 D. Burns, N.L. Johnson  
The correlation of measured spectral radiance of  
fluorescent and non-fluorescent materials to  
perceived conspicuity under natural low light  
levels
- 11.30 - 11.50 R. Saunders, R. DeFour  
Spectral and colorimetric properties of the  
light emitted by the dorsal bioluminescent  
organs by *Phyroporus pellucens*
- 11.50 - 12.10 Krysciowiak  
Fluorescent colors on stage
- 12.10 - 12.30 Visit to the Exhibition
- 12.30 - 13.30 Lunch

- 13.30 - 13.50 **J.A. Ladson**  
Colorimetric data comparison of bench-top and portable instruments
- 13.50 - 14.10 **B. Sluban, D. Golob, St. Jeler**  
A practical test of the equilibrate color matching
- 14.10 - 14.30 **W.H. Kettler, J. Spehl, M. Kolk, M. Wölker**  
Color recipe prediction by artificial neural networks
- 14.30 - 14.50 **P. Glatz, S. Kurz**  
A training concept in color science for the graphic arts and industry
- 14.50 - 15.20 Coffee break
- 15.20 - 15.40 **H. Pelshenke**  
Colorimetry in collision field between modern quality management according to ISO 9000 and daylight laboratory praxis
- 15.40 - 16.00 **N.L. Johnson**  
Measuring the nighttime color of retroreflective materials
- 16.00 - 16.20 **F. Brücker**  
Color measurement and quality control on coloured liquids in the chemical industry
- 16.20 - 16.40 **D. Alston, R. Feld**  
Camera colorimetry, new instrumentation for appearance and spatial color
- 16.40 - 17.00 **J.T. deGroff**  
Developments in color instrument design utilizing LED technology

Tuesday, Sept. 5, 1995

9.00 - 10.00 L. Ronchi:

Dean B. Judd-AIC Award 1995

Lecture of the Recipient of the  
Dean B. Judd-AIC Award 1995

10.00 - 10.30 Coffee break

**Contributed Papers**

10.30 - 10.50 **Bäurle**  
DIN-Standardization of metallic and perlescent colors

10.50 - 11.10 **A. Rodriguez, Steenhoek**  
Measurement of metallic & pearlescent colors

11.10 - 11.30 **P.W. Gabel, A. Eberle, H. Pieper**  
Goniochromatic quality control of pearl pigments

11.30 - 11.50 **G. Döring**  
Do the apertures of illumination and measurement influence measurements of metallics

11.50 - 12.10 **G. Rösler**  
Multigeometry color measurement of structural surfaces

12.10 - 12.30 Exhibition

12.30 - 13.30 Lunch

15.00 - 18.30 Boat trip under the Bridges of Berlin

Wednesday, Sept. 6, 1995

### Invited Paper

9.00 - 10.00 **B. Thornton**  
Improvement in the weighting functions of  
colorimetry

10.00 - 10.30 Coffee break

### Contributed Papers

10.30 - 10.50 **R. Berns**  
To optimize or not to optimize (l:c) ratios

10.50 - 11.10 **K. Witt**  
Linearity of grey scale with small stepwidth

11.10 - 11.30 **E. Rohner, D.C. Rich**  
An approximately uniform object colour metric  
for industrial colour tolerances

11.30 - 11.50 **E. Bernabeu, J.M. Zoido, F. Carreno**  
Some considerations on MacAdam's ellipses

11.50 - 12.10 **C. Oleari**  
Uniform-scale chromaticity diagram by von Kries-  
invariant-logarithmic transformations for foveal  
vision

12.10 - 12.30 **W.-Y. Zhang**  
WYZ-colour storehouse

12.30 - 13.30 Lunch

13.30 - 13.50 **Antkowiak, L. Grambow**  
A method of color renderings optimization of  
CRT-TV monitors by means of electronically  
generated test colours and test pictures

13.50 - 14.10 **P.G. Herzog**  
Analytical color space transformations

14.10 - 14.30 **R. Schettini, B. Barolo, E. Boldrin**  
Cross media color reproduction by neural  
networks

14.30 - 14.50 **P. Campadelli, F. Castiglioni, R. Schettini**  
Nominal color coding by Hopfield net works

14.50 - 15.20 Coffee break

15.20 - 15.40 **Th. Keusen, B. Hill, F.W. Vorhagen**  
A solution to color problems in open system  
architectures

15.40 - 16.00 **H. Scheibner, A. Orazem**  
On a deuteranope's foveal opponent-color vision

16.00 - 16.20 **A. Nilsson, T. Hard**  
Upgraded quality for color notation

16.20 - 16.40 **W.-Y. Zhang**  
Error of HLS color model

16.40 - 17.00 **T. Kechlibarov**  
Brightness and characteristics of chibrid AC EL  
structures

19.00 - 24.00 Banquet