

Program

Sunday, July 6

18:00-20:00	Welcome reception
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Monday, July 7

8:30-9:00	Registration		
9:00-9:10	Opening - Y. Ohno, M.L. Rastello, Symposium Co-Chairs		
9:10-9:40	Keynote Paper		
	Georg Sauter	Germany	Goniophotometry: New Challenges and Novel Solutions
Session I: Imaging photometers and colorimeters Session Chair: Maria Luisa Rastello			
9:40-10:10	Udo Krüger, Franz Schmidt	Germany	Image Luminance and Color Measuring Devices (Invited paper)
10:10-10:30	Douglas Kreysar and <u>Ronald Rykowski</u>	USA	Comparison of Various Methods to Measure Luminous Intensity with an Imaging Colorimeter
10:30-10:50	Coffee break		
10:50-11:10	<u>A. Zschenker</u> , A. Sperling, F. Schmidt, U. Krüger	Germany	Determination of the Quality Index "Nonlinearity" of Imaging Luminance Measurement Device (ILMD)
11:10-11:30	Zs. Kosztyán, S. Sturm, D. Müller, J. Schanda	Hungary	Decreasing Colour Measuring Systematic Error in Image Taking Tristimulus Colorimeters
11:30-11:50	C. Cameron Miller	USA	Retroreflection Measurements using an Imaging Photometer
11:50-12:10	P. Iacomussi and G. Rossi	Italy	CCD Detectors for Diffusing Material and Retroreflector Characterisation
12:10-12:30	Open discussion		
12:30-14:00	Lunch & Poster presentations		
Session II: Spectral responsivity measurement and f_1' of photometers Session Chair: Peter Blattner			
14:00-14:30	<u>Jianguan Pan</u> , Haiping Shen, Yuqin Zong, Yoshi Ohno	China	Considerations on the Improvements of f_1' Evaluation (Invited paper)
14:30-14:50	S. Nevas, <u>A. Sperling</u> , S. Winter, A. E. Abd El Mageed, P. Blattner	Germany	Measurements of the Spectral Responsivity and f_1' Values of Photometers
14:50-15:10	Udo Krüger and Peter Blattner	Germany	The Influence of the Uncertainty of the Spectral Responsivity Measurement on the Method of Determination of f_1'
15:10-15:30	E. Ikonen, T. Poikonen, P. Kärhä, P. Manninen, and F. Manoocheri	Finland	Determination of f_1' and Its Uncertainty with Biased and Random Error Models
15:30-16:00	Tea Break		

16:00-16:20	Dong-Hoon Lee, Seongchong Park and Seung-Nam Park	Korea	Spatially Resolved Measurement of Spectral Responsivity of a Photometer with a Mosaic-Type $V(\lambda)$ -filter
16:20-16:40	Kathleen Muray	USA	Blue LED Measurement Methods
16:40-17:00	Meena D. Lysko	South Africa	Quality Matching of the $V(\lambda)$ -Function and Associated Uncertainties for High Precision Photometers at the NMISA
17:00-17:20	<u>A. Gaertner</u> , C. Bamber, L. P. Boivin and M. Chrysler	Canada	NRC Photometer Design for the Realization of a Luminous Intensity Scale
17:20-17:40	<i>Open discussion</i>		
17:40-18:30	<i>Poster Session and Exhibition</i>		
20:30	<i>Dinner</i>		

Tuesday, July 8

Session III LED measurement and characterization Session Chair: Armin Sperling			
9:00-9:30	Werner Halbritter, <u>Werner Horak</u> , Werner Jordan	Germany	Measurement Requirements for the Characterization of Photobiological Hazards posed by the Optical Radiation of Lamps or LEDs (Invited paper)
9:30-9:50	<u>Mou Tongsheng</u> , Yu Jiandong, Li Li	China	A Retinal Radiance Meter
9:50-10:10	G. Brida, F. Saccomandi, F. Viarengo	Italy	Development of LED Calibration Facility at INRIM
10:10-10:30	P. Csuti, B. Kránicz, U. Krüger, J. Schanda, F. Schmidt	Hungary	Photometric and Colorimetric Stability of LEDs
10:30-10:50	<i>Coffee break</i>		
10:50-11:10	<u>Yugin Zong</u> and Yoshi Ohno	USA	New Practical Method for Measurement of High-Power LEDs
11:10-11:30	G. Brida, F. Saccomandi, M.L. Rastello, F. Viarengo	Italy	A Combined Method for Measuring Total Flux and Luminous Intensity of LEDs
11:30-11:50	S Park, D H Lee, Y W Kim, H P Kim and S N Park	Korea	Study on the Total Luminous Flux Measurement of Surface-Emitting Light Sources Using an Integrating Sphere
11:50-12:10	F W Leuschner	South Africa	Photometry and Colorimetry of White LED Cap Lamps for Mining
12:10-12:30	<i>Open discussion</i>		
12:30-14:00	<i>Lunch & Poster presentations</i>		
Session IV Goniophotometers and other developments Session Chair: Georg Sauter			
14:00-14:30	<u>Michael Shaw</u> and Teresa Goodman	UK	Goniospectroradiometric Characterisation of Light Sources (Invited paper)
14:30-14:50	Li Junkai, <u>Wang Jianping</u> , <u>Mou Tongsheng</u>	China	A Novel Goniophotometer with Pursuit Mirror

14:50-15:10	K. Oshima, K. Ohkubo, and S. Mishima	Japan	The New Idea for Total Luminous Flux Measurement
15:10-15:30	<u>Maria E. Nadal</u> and Gael Obein	USA	NIST Five-Axis Goniospectrometer for Surface Color Measurements
15:30-16:00	<i>Tea Break</i>		
16:00-16:30	E. Chorro, F. Martínez-Verdú, <u>J. Campos</u> and A. Pons.	Spain	On the Importance of Rotating Metallic and Pearlescent Samples around the Normal in Multi-Gonio-Spectrophotometric Measurements
16:30-16:50	<u>G. P. Eppeldauer</u> , C. C. Miller and Y. Ohno	USA	Detector-Based Calibration Procedures for Tristimulus Colorimeter Standards
16:50-17:10	Jürgen Hartmann, Klaus Anhalt, Dieter Taubert	Germany	Towards a More Accurate and Reliable Source Based Radiometry and Photometry
17:10-17:30	<i>Open discussion</i>		
17:30-17:40	<i>Summary and closing - Y. Ohno</i>		

Poster Presentations (17:40-18:30 July 7 and lunch time and breaks on July 7 and 8)

Paper #	Authors		Paper title
PA01	David Barrios, Ricardo Vergaz, J.M.S. Pena, Cristina Pozo	Spain	Coloration, Voltage and Charge Density Relation of Viologens based Electrochromic Devices
PA03	D. Barrios, A.F.P. Román, R. Vergaz, J.I. Santos, J.M.S. Pena	Spain	Chromatic Characterization of a RGB-LED Backlight System for an Antiferroelectric LED
PA05	O.P. Melamed	Russia	Research of the Spectrocolorimetric Method Uncertainties for Chromaticity Coordinates Measurements
PA07	Grega Bizjak, Matej B. Kobav, Blaz Luin	Slovenia	Measurement of Luminance of Symbols on Automotive Switches with Digital Camera
PA08	Grega Bizjak and Mitja Prelovšek	Slovenia	Measurement of Variations of Color Correlated Temperature at White LEDs
PA12	Liu Hui, Lin Yandong, Yang Chenzhu, Xiao Wenbin	China	Using Incandescent Lamp as Transfer Standard of Luminous Flux Measurement for Compact Fluorescent Lamp
PA17	Christian Schwanengel and Franz Schmidt	Germany	Fast Headlamp Measurement with Image Luminance Measurement Technique
PA19	Knut Bredemeier and Franz Schmidt	Germany	Ray Data Measurements of Modern Light Sources
PA26	G. Brida, M.L. Rastello	Italy	The Candela: Towards Quantum Photon-Based Standards
PA27	Pei-Ting Chou, Sheng-Bang Huang, Shang-Ping Ying	Taiwan	Measurements for Near Field Source Models of LED Die using Source Imaging Goniometer

PA28	U. Binder, W. Halbritter, W. Jordan, G. Sauter, W. Steudtner, N. Wagner	Germany	The New Hemispherical Robot Goniophotometer of the Central Laboratory for Light Measurements of OSRAM GmbH Munich
PA31	Eric W. M. van der Ham, E. van Veldhoven and Daniël H.C.D. Bos	Netherlands	Accurate f1' Determination For Total Luminous Flux Measurements Of High- Power Leds Beyond the 0.3% Level
PA42	Marek Smid, Geiland Porrovecchio, Radek Smid	CZ	Super Linearity: a Method to improve the Linearity of a Switched Integrator Amplified
PA43	John Mountford, Geiland Porrovecchio, Marek Smid	CZ	Use of Switched Integrator Amplifier for High Accuracy Optical Measurements of Steady and Low Level Photocurrents Signals
PA44	Klaus Richter	Germany	Colour Management Reference Circle: Scan – File – Print – Scan using a CIELAB Camera and Standard Offset Printing