

Joint Biennial CNC-CIE, CIE-USNC & CORM Conference 2023 Conference Schedule (6-8 November 2023)

Note: Times shown are Eastern Time (ET).

Monday, November 6 th	
11:00 AM	Conference Start
11:00 AM	Introduction, Jeff Hovis, President, CNC-CIE
11:05 AM	CIE Research Strategy, Jennifer Veitch, President, CIE
11:40 AM	short break
11:50 AM	Optical Properties of Materials, Chair: Aaron Goldfain
11:50 AM	Material Characterization of Phantom Standards Developed by the National Institute of Standards and Technology for Quantitative Optical Medical Imaging Application and Technology for Quantitative Optical Medical Imaging Applications, Jeeseong Hwang, NIST
12:10 PM	µBRDF Measurement and Traceability Challenges, Lou Gevaux, LNE-CNAM
12:30 PM	Impact of a Finite Thickness Integrating Sphere Port on Diffuse Reflectance Measurements, <i>Luke Sandilands, NRC</i>
12:50 PM	UV-C Directional Reflectance Measurements of Common Materials, Aaron Goldfain, NIST
1:10 PM	break
1:40 PM	UV Radiometry, Chair: Andrew Jackson
1:40 PM	UV LED Measurements Using the IES-LM-92 Methods, Jeff Hulett, Vektrex
2:00 PM	Key Findings from Radiometric Testing of Upper-Room GUV Luminaires, <i>Jason</i> <i>Tuenge, PNNL</i>
2:20 PM	Field-Evaluations of Upper-Room and Whole-Room Germicidal Ultraviolet Installations, <i>Eduardo Rodriguez-Feo Bermudez, PNNL</i>
2:40 PM	short break
2:50 PM	UV Radiometry (Cont.)
2:50 PM	UVC and GUV Measurements in the UVSCF, Jeanne Houston, NIST
3:10 PM	Importance of UV Spectral Distribution in Solar Simulator Applications, Andrew Brezinski, Sciencetech, Inc
3:30 PM	The Need for Fluence-Rate Measurement Instruments, <i>David Sliney,</i> Independent Consultant
3:50 PM	break



Monday, November 6 th (continued)	
4:20 PM	Current Research at NMIs I, Chair: Angela Gamouras
4:20 PM	A New Method for Measuring Splice Loss Uncertainty in Single Photon Detector Efficiency Measurements, <i>Sonia Buckley, NIST</i>
4:40 PM	Spectroradiometer Calibration with an UAV-Borne Light Source, <i>Liviu Ivanescu,</i> NRC
5:00 PM	Development of a New Reference Photometer, Yuqin Zong, NIST
5:20 PM	Infrared Radiometry for Space-Based Earth Outgoing Radiation Measurements, Patrick McArdle, NIST
5:40 PM	End of Day
Tuesday, November 7 th	
11:00 AM	Educational Session on Glare Metrics, Models and Standards, Moderator: Mark Jongewaard
	Speakers: Belal Abboushi and Naomi Miller (Pacific Northwest National Laboratory), Mehlika Inanici (University of Washington), and John Bullough (Mount Sinai Light and Health Research Center)
12:30 PM	break
1:00 PM	Current Research at NMIs II, Chair: Heather Patrick
1:00 PM	Radiation Pressure to Facilitate Measurements of High Laser Powers, <i>Kyle</i> <i>Rogers, NIST</i>
1:20 PM	Quantum Cascade Lasers for Measurement Science, Nelson Rowell, NRC
1:40 PM	NRC Cryogenic Radiometer: Scale realization from the UV to NIR, <i>Ka-ming Liu,</i> NRC
2:00 PM	Laboratory and Field Calibration Methods for Solar-Induced Fluorescence Monitoring Systems, <i>Julia Marrs, NIST</i>
2:20 PM	break
2:50 PM	Metrology of Indoor and Outdoor Lighting, Chair: Craig Bernecker
2:50 PM	A New Metric for Visibility of the Phantom Array Effect, Jianchuan Tan, PNNL
3:10 PM	Study of Non-Uniformity Corrections in Luminous Flux Measurements of Automotive Headlamps Using an Integrating Sphere Through Simulations, <i>Luis Prado Jr., Prado Lux</i>
3:30 PM	Development and Verification of a Low-Cost Handheld Spectroradiometer, William Mills, Northern Illinois
3:50 PM	Effect of Field of View and Cosine Correction on Spatial Efficiency for Indoor Lighting, <i>Parisa Mahmoudzadeh, Penn State</i>
4:10 PM	break



Tuesday, November 7 th (continued) 4:40 PM	Further Studies in Metrology of Indoor and Outdoor Lighting, Chair: Howard Eng
4:40 PM	Discomfort Glare for Pedestrians: Can Any Model Get Us in the Ballpark, <i>Belal Abboushi, PNNL</i>
5:00 PM	Accuracy of the CIE Standard Observer and Other Spectral Luminous Efficiency Functions, <i>Wangyang Song, Penn State</i>
5:20 PM	Improving the Mp Metric for Evaluation of Flicker, Jiaye Li, NIST
5:40 PM	End of Day

Wednesday, November 8 th	
11:00 AM	Invited talk on Cone Fundamental Photometry and Colorimetry,
	Lorne Whitehead, University of British Columbia
11:30 AM	short break
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11:40 AM	Human Vision, Chair: Jeff Hovis
11:40 AM	The Effect of Texture on Perceived Color Differences, Zhenhua Luo, NC State
12:00 PM	The Influence of Background on the Visual Color Difference Evaluation of Multicolored Materials, <i>Jiaying Wu, NC State</i>
12:20 PM	Visual Quality in Low-Light Environments: Effects of White, Amber and Red Lighting on Perception and Light Pollution Reduction, <i>Dorukalp Durmus, Penn</i>
12:40 004	State
12:40 PM	break
1:10 PM	Human Vision (Cont.)
1:10 PM	Do Working Individuals with Color Vision Deficiencies Experience Challenges in the Digital Age?, Sandra Mazur, Univ. Waterloo
1:30 PM	Color Vision Testing for the Railways, Jeffery Hovis, Univ. Waterloo
1:50 PM	Gender Disparities in Spatial Cognition: The Influence of Stereopsis and Mental Rotation, Sunder Bukya, Universities of Delhi, Hyderabad and Harvard
2:10 PM	A Core Lighting Curriculum for University Students and Independent Learners, Kevin Houser, Oregon State
2:30 PM	break
3:00 PM	CIE Division reports
4:15 PM	End of conference