



CORM 2010

Annual Conference and Business Meeting

*Solid State Lighting, Display Metrology, Photovoltaics,
and General Topics in Optical Radiation Measurement*

May 9-11, 2010

Planet Hollywood Resort and Casino
Las Vegas, NV



Council for Optical Radiation Measurements

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The CORM 2010 conference will be held in Las Vegas, NV – preceding the Light Fair International conference. The conference themes include **Solid State Lighting, Display Metrology, Photovoltaics, and General Topics in Optical Radiation Measurement.**

The 2010 Annual CORM Technical Conference is structured to provide interaction between the optical radiation industry and National Metrology Institutes (NMI's) such as the National Institute of Standards and Technology (NIST), National Research Council (NRC) of Canada, and National Center for Metrology (CENAM) of Mexico.

Schedule

Sunday, May 9	1:00 PM: CORM Technical Committee Meetings
Monday, May 10	8:00 AM Session I: General Topics in Optical Radiation Measurement 10:00 AM Session II: Photovoltaics 1:00 PM Session III: Display Metrology 6:00 PM Reception 7:00 PM Franc Grum Memorial Lecture and Banquet
Tuesday, May 11	8:00 AM Session IV: Solid State Lighting 4:00 PM CORM Business Meeting

Early conference registration begins in February 2010.

Conference Coordinators

Mr. Andy Jackson

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CORM 2010 Annual Conference and Business Meeting

PRELIMINARY PROGRAM

Solid State Lighting, Display Metrology, Photovoltaics,
and General Topics in Optical Radiation Measurement

May 9-11, 2010 Las Vegas, NV

Sunday May 9th

CORM Technical Committees on Radiometry

11:00 **REGISTRATION OPEN**

12:00 LUNCH

13:00 **CORM Technical Committees on Radiometry**

(Detailed schedule to be announced)

Monday May 10th

8:00-8:30 **REGISTRATION OPEN - Continental Breakfast**

8:30 Opening remarks

Session 1 General Topics in Optical Radiation Measurement – *Chair: Bob Angelo*

9:00 **CQS – Test Results to Date**

Wendy Davis, NIST

9:25 **Silicon based Femtoamp measurement systems – measurement implications and applications**

Yuqin Zong, NIST

9:50 BREAK

Session 2 Photovoltaics - *Chair: Daryl Myers*

10:15 **Solar Datawarehouse: Measured Solar Radiation Data from 3000 US Stations for Renewable Applications**

James Hall, JHTech

10:40 **Optimizing tracking photovoltaic systems for performance under mostly cloudy conditions**

Nelson A. Kelly, General Motors Research Center

11:05 **(Title TBA)**

Brian Dougherty, NIST

11:30 **Solar Resource Data and Uncertainties for Photovoltaic Systems Applications**

Daryl Myers, NREL

12:00 **LUNCH BREAK**

Session 3 Display Measurement – *Special Session*

- 13:00 **[Introduction to the new ICDM DM – Title TBA]**
Edward Kelley, KELTEK LLC
- 15:00 BREAK
- 15:30 **[Special Topics – Title TBA]**
Edward Kelley, KELTEK LLC
- 18:00 **Reception**
- 19:00 **Franc Grum Memorial Banquet and Lecture**

Tuesday May 11th

- 8:00- 8:45 **REGISTRATION OPEN Continental Breakfast**
8:45 **Introductions and Announcements**

Session 4 **SSL Measurements and Standards** - *Chair: Andy Jackson*

- 9:00 **LED Life Prediction**
Emil Radkov, Illumitex
- 9:30 **SSL Statistical Analysis of Models related to TM-21**
Eric Richman (PNNL-DOE)
- 10:00 BREAK
- 10:30 **Updated CALiPER Lifetime Testing**
Mia Paget U.S. Department of Energy Solid-State Lighting CALiPER Program
- 11:00 **Design of LED lifetime tests (or Update of DC and AC LED Measurement Techniques)**
Yuqin Zong, NIST
- 11:30 **Results, Finding, and Oddities from NVLAP SSL Proficiency Testing**
Cameron Miller, NIST
- 12:00 **LUNCH BREAK**
- 13:00 **Near Field Goniometric Measurement Systems for Solid State Lighting Systems:
Measuring Luminance, Intensity, Color, and Spectra as a Function of Angle**
Douglas Kreysar, Radiant Imaging
- 13:30 **(Title TBA)**
Michael Grather, LTL
- 14:00 **(Title TBA)**
Bob Berger
- 14:30 BREAK
- 15:00 **SSL End product Performance—correlation from Chip Performance**
Mia Paget U.S. Department of Energy Solid-State Lighting CALiPER Program
- 15:30 **Update of SSL standards – measurement and performance**
Eric Richman (PNNL-DOE)
- 16:00 **CORM Business Meeting**