

**NIST Standards in Trade Workshop for China
On Renewable Energy and Efficient Lighting Systems**

June 23 - 25, 2008

**Purple Mountain Hotel
Shanghai, China**

Day 1: Monday, June 23, 2008

8:00 a.m. Registration

Session I Opening Ceremony

9:00 a.m. **Welcome Remarks**
Shen Weimin, Vice Director
Shanghai Municipal Bureau of Quality and Technical Supervision

Lunfai Lai, Vice President and Managing Director of
Greater China for UL

Dr. Belinda Collins, Director
Technology Services
National Institute of Standards and Technology (NIST)

9:30 a.m. **NIST Overview**
Dr. Belinda Collins, Director
Technology Services
National Institute of Standards and Technology (NIST)

9:45 a.m. **NIST Standards in Trade Workshop Program Overview**
Dr. Carmiña Londoño, Group Leader
Global Standards and Information Group
National Institute of Standards and Technology (NIST)

10:00 a.m. **U.S. Overview of Renewable and Alternative Energy Programs
Energy Efficiency and Renewable Energy (EERE)**
Tom Kimbis, Director
Solar Energy Technologies Program
U.S. Department of Energy

10:30 a.m. Tea Break – Sponsored by ASTM International

Day 1: Monday, June 23, 2008

- 11:00 a.m. **Chinese Overview of Renewable and Alternative Energy Programs**
Gao Hu, Deputy Director
The Energy Research Institute of the National Development and Reform
Commission
- 11:30 a.m. **Chinese Overview of Standardization Activities for Renewables**
Li Aixian, Director of Sub-Institute of Resource and Environment
Standardization
China National Institute of Standardization
- 12:00 p.m. Questions and Answers
- 12:15 p.m. LUNCH – Sponsored by Underwriters Laboratories, Inc (UL)
- Session II Photovoltaics (PVs)**
- 1:15 p.m. **U.S. Perspective**
Photovoltaic Market Overview
Ted James, Analyst
U.S. Department of Energy
- 1:35 p.m. **Chinese Perspective**
Status of PV Industry in China
Wang Sicheng, Senior Engineer
Beijing Jike Energy New Technology Development Co.
- 1:50 p.m. Questions and Answers
- PV Standards Activities**
- 2:00 p.m. **U.S. Perspective**
Tim Zgonena, Primary Designated Engineer
Underwriters Laboratories, Inc. (UL)
- 2:20 p.m. **PV Testing Service in Intertek, Solar Simulators**
Ole Stilling, Regional Technical Director
Intertek East
- 2:40 p.m. **Chinese Perspective**
Wang Geng, Senior Engineer
China National Institute of Standardization

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- 3:00 p.m. **ASTM International Standards Worldwide**
Liu Fei, Chief Representative, China Office
ASTM International
- 3:20 p.m. Questions and Answers
- 3:30 p.m. Tea Break - Sponsored by ASTM International
- Conformity Assessment and Product Certification**
- 4:00 p.m. **U.S. Perspective**
Liang Ji, Research Engineer
Underwriters Laboratories, Inc. (UL)
- 4:20 p.m. **Testing Grid-Connected PV-Inverters for Compliance
in Different Countries**
Sammy Wu, Senior Manager, Technical Development
Intertek East
- 4:40 p.m. **Chinese Perspective**
Renewable Energy PV Productor Certification Introduction
Chen Wei, Vice President
Product Certification
China Quality Certification Centre
- 5:00 p.m. Qin Haiyan, General Director
China General Certification Center
- 5:20 p.m. Questions and Answers
- End of Day 1

Day 2: Tuesday, June 24, 2008

8:00 a.m. Day 2 Registration

Session II Photovoltaics (PVs) (Continued)

Manufacturer Perspective

9:00 a.m. Xu Honghua, Chairman
Beijing Corona Science and Technology Company, Ltd.

9:20 a.m. **Chinese Perspective on PV Deployment in Rural China**
Wu Dacheng, Executive Director
Global Environmental Facility/World Bank China Renewable Energy
Department Project Management Office

9:40 a.m. **Solar America Board of Codes and Standards**
Kevin Lynn, Engineer
U.S. Department of Energy

10:00 a.m. Questions and Answers

10:15 a.m. Tea Break - Sponsored by Intertek

Session III Distributed Generation Equipment (DGE): DG Standards Activities

10:45 a.m. **U.S. Perspective**
Tim Zgonena, Principal Engineer
Underwriters Laboratories, Inc. (UL)

11:05 a.m. Questions and Answers

11:20 a.m. **Product Testing & Certification of DG Products**
Tim Zgonena, Principal Engineer
Underwriters Laboratories, Inc. (UL)

11:40 a.m. **U.S. Perspective**
Certifications Manufacturer Perspective
George Langton, Certification Engineer
Capstone Turbine Corporation

12:00 p.m. Questions and Answers

Day 2: Tuesday, June 24, 2008

12:30 p.m. LUNCH – Sponsored by Underwriters Laboratories, Inc (UL)

1:30 p.m. Registration Break

Session IV Light Emitting Diode (LED) and Solid State Lighting (SSL)

Technology and Market overview of SSL

2:00 p.m. **Chinese Perspective**
Ruan Jun, Vice Secretary
China Solid State Lighting Alliance

2:20 p.m. **U.S. Government Perspective**
Dr. Yoshi Ohno, NIST (*on behalf of Eric Richman, Pacific Northwest National Laboratory*)

2:40 p.m. Questions and Answers

Standards for LED /SSL products

2:55 p.m. **U.S. Perspective**
Kenneth Kempel
Principal Engineer, Lighting
Underwriters Laboratories Inc. (UL)

3:15 p.m. Tea Break – Sponsored by Intertek

3:45 p.m. **ANSI SSL Standards Overview**
Andrew Jackson, Manager
Corporate Regulatory and Certification Laboratory
Philips Lighting Company

Day 2: Tuesday, June 24, 2008

- 4:05 p.m. **SSL Standards Technical Overview**
Dr. Yoshi Ohno, Group Leader
National Institute of Standards and Technology (NIST)
- 4:25 p.m. Questions and Answers
- End of Day 2

Day 3: Wednesday, June 25, 2008

8:00 a.m. Registration

Session IV Light Emitting Diode (LED) and Solid State Lighting (SSL) (Continued)

9:00 a.m. **Standards on LED Devices**
Prof. Ying Zhao, Senior Engineer
China Electronic Standardization Institute

9:20 a.m. **Test and Measurement Equipment for LED Products**
Prof. Jianguan Pan, Chairman and CTO
Everfine Photo-E-Info Co., Ltd

9:40 a.m. **Evaluation Methods of Thermal Characteristics for LED Lighting**
Prof. Muqing Liu, Chairman
Department of Light Sources and Illuminating Engineering & Director,
Institute for Electric Light Sources, Fudan University

10:00 a.m. **Focus on LED Driver and LED Fixture**
Prof. Anqi Yu
China National Light Source Quality Supervision Testing Centre
(Shanghai)

10:20 a.m. Questions and Answers

10:35 a.m. Tea Break - Sponsored by Intertek

Conformity Assessment

11:05 a.m. **U.S. Perspective**
Kenneth Kempel
Principal Designated Engineer, Lighting
Underwriters Laboratories Inc. (UL)

11:25 a.m. **LED Safety Testing**
Ole Stilling, Regional Technical Director
Intertek

11:45 a.m. **Research and Metrology Support for SSL**
Dr. Yoshi Ohno, Group Leader,
National Institute of Standards and Technology (NIST)

12:05 p.m. Questions and Answers

12:30 p.m. LUNCH – Sponsored by Underwriters Laboratories, Inc (UL)

Day 3: Wednesday, June 25, 2008

Manufacturer Perspective

- 1:30 p.m. **U.S. Perspective**
 Jean Paul Jacobs
 Global Technology Development - Campus China
 Philips Innovation Campus Shanghai
- 1:50 p.m. **NEMA White Paper – A Spring Board to SSL Interconnect
Standardization**
 Andrew Jackson
 Philips Lighting Company
- 2:10 p.m. Questions and Answers
- 2:30 p.m. Tea Break - Sponsored by Intertek

Session V Future Collaborations

- 3:00 p.m. Moderator: Dr. Carmiña Londoño, Group Leader
 Global Standards and Information Group
 National Institute of Standards and Technology (NIST)

Proposed Panel

U.S. Representatives

Dr. Belinda Collins, Director
Technology Services
National Institute of Standards and Technology (NIST)

Erin Grossi, Manager
International Affairs
Underwriters Laboratories, Inc (UL)

Chinese Representatives

Prof. Pan Jiagen, Chairman and CTO
Hangzhou Everfine Co., Ltd.

Wu Dacheng, Executive Director
Global Environmental Facility/World Bank China Renewable Energy

- 4:00 p.m. **Closing Remarks**
 Dr. Belinda Collins, Director
 Technology Services
 National Institute of Standards and Technology (NIST)
- 4:15 p.m. End of Program