

Fashion City, Glamour Exhibition

07'08.22-24

Shanghai, China



4th China International Forum & Exhibition on Solid State Lighting (2007 Shanghai)

**Forum: Shanghai International Convention Center, China
Exhibition: Shanghai New International Expo Center, China**

Conference Overview

Date	Time	Location (Shanghai International Convention Center)				
		1F, Lobby	3F, International Hall	3F, Yellow River Hall	5F, Yangtze River Hall	7F, Pearl Hall
August 21	08.30-12.00	Onsite Registration				
	13.00-14.00		Training Lunch (Seagull Palace)			
	14.00-15.35					MOCVD Short Course I
	15.35-15.50		Coffee Break (7F, Public Area)			
	15.50-18.00					MOCVD Short Course I
	18.00-19.30		Training Dinner (Seagull Palace)			
August 22	09.00-10.00					MOCVD Short Course II
	10.00-10.30		Coffee Break (7F, Public Area)			
	10.30-12.00					MOCVD Short Course II
	12.00-13.00		Training Lunch (Seagull Palace)			
	14.00-18.00		Poster Attach (3F, Public Area)			
	14.00-18.00			The 2 nd New Technologies, Equipment, Products and Materials Release		
19.00-20.00	Reception Banquet (Seagull Palace)					
August 23	08.30-09.00		Opening Ceremony			
	09.00-10.20		Plenary			
	10.20-10.45	Coffee Break (3F, Public Area)				
	10.45-12.00		Plenary			
	12.00-13.00	Lunch (Seagull Palace)				
	13.30-15.00			Epitaxy & Chip Session I	Packaging Session	Application Session I
	15.00-15.30	Coffee Break (3F, 5F,7F, Public Areas)				
	15.30-18.00			Epitaxy & Chip Session I	Packaging Session	Application Session I
	18.00-19.30	Dinner (Seagull Palace)				
20.00-21.00	Huangpu River Sightseeing					
August 24	08.30-10.00			Epitaxy & Chip Session II	Equipment & Measurement Session	Application Session II
	10.00-10.30	Coffee Break (3F Public Area)				
	10.30-12.00			Epitaxy & Chip Session II	Equipment & Measurement Session	Application Session II
	12.00-13.00	Lunch (Seagull Palace)				
	13.30-15.00			Cooperation & Competition Dialogue		
	15.00-15.30	Coffee Break (3F, Public Area)				
	15.00-17.00	Poster Communication (3F, Public Area)				
	15.30-17.00			Cooperation & Competition Dialogue		
	17.00-17.30	Closing Ceremony				
18.00-19.30	Closing Banquet (Seagull Palace)					

Plenary

August 23, 2007

09:00-09:25 **Ms. Wu Ling**

General Secretary of China Solid State Lighting Alliance

Overview & Forecast of SSL Industry in China

09:25-09:50 **Prof. E. Fred Schubert**

Rensselaer Polytechnic Institute

Light-Emitting Diodes – Looking Back 100 Years and Looking Forward to the Next 10 Years

09:50-10:15 **Dr. Robert V. Steele**

Director, Optoelectronics, Strategies Unlimited

Overview of the Worldwide Market for High-Brightness LEDs

10:45-11:10 **Dr. George Craford**

CTO, Philips Lumileds Lighting Company

High Power LED Overview: Technology, Applications, and Requirements for Solid State Lighting

11:10-11:35 **Dr. Young Moon Yu**

Korea Photonics Technology Institute

The Technological Advances in Korea Society of LED and Solid State Lighting

11:35-12:00 **Mr. Claus Regitz**

Executive Vice President, CTO, OSRAM GmbH

Solid State Lighting Technologies and Roadmap

Epitaxy & Chip Session

August 23, 2007

13:30-14:00 **Dr. Berthold Hahn**

Head of LED Technology GaInN, OSRAM Opto Semiconductors GmbH, Germany

High Power LEDs for Solid State Lighting

14:00-14:20 **Prof. Ian Ferguson**

Acting CTO, Cermet, USA

Defect Engineering in Solid State Light Sources

14:20-14:40 **Dr. Andrey Bakin**

Head of MBE and VPE and Nanofabrication Group, Institute of Semiconductor Technology, Technical University Braunschweig, Germany

ZnO: Towards realization of Nano-LEDs

14:40-15:00 **Prof. Claude Weisbuch**

University of California, Santa Barbara, USA

Microcavity and Photonic Crystal LEDs: Promises and Challenges

15:20-15:50 **Prof. Shuji Nakamura**

University of California Santa Barbara, USA

Recent Performance of Nonpolar/Semipolar/Polar GaN-Based Blue LEDs and LDs

15:50-16:10 **Prof. Russell Dupuis**

Director, Center for Compound Semiconductors, Georgia Institute of Technology, USA

High-Brightness Green Light-Emitting Diodes for Solid State Lighting Applications

16:10-16:30 **Prof. Junming Zhou**

Institute of Physics, Chinese Academy of Sciences, China

A Novel Quantum Well Structure for Enhancing LED Inner Quantum Efficiency

16:30-16:50 **Prof. Chih-Chung Yang**

National Taiwan University, Taiwan, China

Phosphor-Free InGaN/GaN Quantum-Well-Based White-Light Light-Emitting Diodes

16:50-17:05 **Prof. Shengming Zhou**

Shanghai Institute of Optics and Fine Mechanics, Chinese Academy of Sciences, China

γ -LiAlO₂ Substrate Crystal Growth and Wide Bandgap Semiconductor Film Fabrication

17:05-17:25 **Prof. Rong Zhang**

Vice President, Nanjing University, China

GaN/GaN Quantum Wells and LEDs Grown on γ -LiAlO₂ Substrates

17:25-17:45 **Dr. Xiangning Kang**

Research Center for Wide Gap Semiconductors, Peking University, China

Improve Extraction Efficiency of GaN-based LED by Surface Photonic Lattices

17:45-18:05 **Prof. Guohong Wang**

Institute of Semiconductors, Chinese Academy of Sciences

Investigation on Key Technology for GaN based High Power LED

August 24, 2007

08:30-09:00 **Prof. Christian Wetzel**

Future Chips Constellation, Rensselaer Polytechnic Institute,
USA

Green and Deep Green LEDs in Polarization Controlled GaN

09:00-09:20 **Prof. Steve Denbaars**

University of California Santa Barbara, USA

Recent Advances in High Brightness GaN Based LEDs

09:20-09:40 **Prof. Kei May Lau**

Hong Kong University of Science & Technology, China

**InGaN/GaN Multiple Quantum Well Blue LEDs Grown on
Patterned Si Substrates with High Temperature AlN-AlGaIn
Stacking Buffer Layers**

09:40-10:00 **Dr. Paul E. Burrows**

Laboratory Fellow, Pacific Northwest National Laboratory, USA

**Designing Molecular Solid State Lighting using
Heteroaromatic Building Blocks**

10:20-10:50 **Dr. Alexander Usikov**

R&D Director, Senior Scientist, Technologies and Devices
International, Inc., USA

HVPE-grown III-N materials for Solid-State Lighting

10:50-11:10 **Prof. Yi Luo**

State Key Lab on Integrated Optoelectronics, Tsinghua University,
China

**Nano-Fabrication and Packaging Technologies for Solid
State Lighting**

11:10-11:30 **Prof. Jun Xu**

Shanghai Institute of Optics and Fine Mechanics, Chinese
Academy of Sciences, China

Novel Technical Plan and Substrate Materials for White LED

Packaging Session

August 23, 2007

13:30-13:50 **Mr. Zhen Liu**

General Manager, Shenzhen Quantum Optoelectronic Co., Ltd.,
China

**Analysis on Development of LED Packaging Accelerated by
Technology Advance**

13:50-14:10 **Mr. Henry Huang**

Director, Marketing & Sales Division, NeoBulb, Taiwan, China

A New Approach for LEDs General Lighting

14:10-14:25 **Prof. Xiaobing Luo**

Huazhong University of Science and Technology, China

**Thermal Management on 220-W and 1500-W LED Light
Source**

14:25-14:40 **Dr. David G W Xiao**

Managing Director, Advanced Packaging Technology Ltd.,
Hongkong, China

**Thermal Management Solutions with Carbon Nanotubes for
High Brightness LED**

14:40-14:55 **Prof. Gang Wang**

Sun Yat-sen University, China

Thermal Management of High-power Light Emitting Diodes

14:55-15:10 **Mr. Xiaoming Pei**

CTO, Guangzhou Hongli Opto-Electronic, China

Investigation into High Power LED Packaging

15:30-15:50 **Prof. Sheng Liu**

Director, Research Center of MOEMS, Wuhan National

Laboratory for Optoelectronics, China

**Effect of Defects on the Thermal and Optical Performance
of High Power LEDs**

15:50-16:10 **Dr. Wei Chen**

Manager, AETS, Great China, Dow Corning

Silicones for LED Packaging

16:10-16:25 **Mr. Tuan Yee Lim**

Application Engineer, NuSil Silicone Technology, LLC, USA

**Guidelines for Determining Key Silicone Properties for LED
Application and Transitioning from Design to Production**

16:25-16:45 **Dr. X. Gordon Liu**

General Manager, China Operations, Intematix Corporation,
USA

Applications of Silicate Phosphors in LED Packaging

16:45-17:05 **Prof. Weidong Zhuang**

National Engineering Research Center for Rare Earth Materials

Red Phosphor for LED Forward to Stability and Efficiency

17:05-17:20 **Prof. Ching-Cherng Sun**

National Central University, Taiwan, China

A Precise Optical Model of Multi-Chip White Light LEDs

17:20-17:40 **Dr. Xiaoyan Zhu**

Philips Research East Asia, Shanghai, China

**Ensuring Color Consistency in White LED Light Generated
by Color Mixing**

Application Session

August 23, 2007

13:30-14:00 **Dr. Michael Lebby**

President & CEO, Optoelectronics Industry Development Association, USA

OIDA's Solid-State Lighting Technologies and Roadmap

14:00-14:20 **Mr. Luke Yao**

Research Director, Optoelectronic Technology & Market, DisplaySearch, Taiwan, China

BLU Market & Opportunity and Bottleneck of L/A LED BLU

14:20-14:40 **Mr. Scott Chen**

Project Manager, Hong Kong Applied Science & Technology Research Institute Co. Ltd, China

The Challenge on Ultra-Thin Large Size LCD Backlight Unit by High Brightness LED

14:40-14:55 **Dr. Manning Fan**

Institute of Semiconductors, Chinese Academy of Sciences

Research on the Key Technology of LED Backlighting for LCD

15:20-15:45 **Dr. Guido van Tartwijk**

Director SSL Development, Philips Lighting, GTD Campus China / BU SSL Asia Pacific Region

Solid State Lighting – The Road to General White Lighting

15:45-16:10 **Dr. Nadarajah Narendran**

Director of Research, LRC, Rensselaer Polytechnic Institute, USA

Are LEDs a Threat to Traditional Light Sources?

16:10-16:30 **Mr. Christopher M. James**

Vice President, Marketing and Business Development, Cree, Inc, USA

Success Story: LED City Initiative Municipal Garage

16:30-16:50 **Mr. Fabio Nehme**

Projects Officer, Environmental Finance Group, International Finance Corporation, World Bank

Lighting Africa: Catalyzing Markets for Modern Lighting

16:50-17:10 **Dr. Klaus Ziemssen**

Director, Global LED Systems Division, OSRAM GmbH, Germany

LED System for Lighting-Early Phase of an Adoption

17:10-17:30 **Prof. Ian Ferguson**

Georgia Institute of Technology, USA

Using Solid State Light Sources to Imitating Diurnal Light Variations

August 24, 2007

08:30-08:50 **Prof. Yandan Lin**

Fudan University, China

Application Advantage of LED in Road Lighting with Mesopic Theoretical Analysis

08:50-09:10 **Dr. Gerhard Kuhn**

Director Application Asia, OSRAM China Lighting Ltd

LED Technologies for Innovative Lighting Applications

09:10-09:30 **Prof. Sheng Liu**

Director, Research Center of MOEMS, Wuhan National Laboratory for Optoelectronics, China

Ultra-Long Span LED Street Lighting

09:30-09:50 **Prof. B. J. Huang**

National Taiwan University, Taiwan, China

Feasibility Study of Roadway Lighting Using High-power LED

10:10-10:25 **Prof. Tsunemasa Taguchi**

Yamaguchi University, Japan

Present Status of High-Ra Near-UV White LED Lighting, and its Applications to the Fields of Medical Endoscope and Art

10:25-10:45 **Mr. Raymond Letasi**

Vice President, Sales-Lighting Systems Group, APAC and Japan, Color Kinetics

An Introduction to Intelligent LED Lighting Systems

10:45-11:05 **Mr. Winter Cheng**

Power Management Product Application Engineer, Asia Pacific, National Semiconductor

LED Applications and Driving Techniques

11:05-11:20 **Mr. David Lin**

CEO, Lei Yueh Enterprise Co., Ltd, Taiwan, China

New Thoughts and Challenges on LED Fixture Design

11:20-11:40 **Prof. Dongge Ma**

Professor, Changchun Institute of Applied Chemistry, Chinese Academy of Sciences

R&D Advance on White OLEDs for Lighting

11:40-11:55 **Prof. Zhigang Xu**

Nanjing Agricultural University, China

Application of LEDs as a Supplement Light Source in Plant Factory

Equipment & Measurement Session

August 24, 2007

08:30-09:00 **Dr. Kolja Haberland**

Head of Customer Support Department, LayTec GmbH,
Germany

**Quantitative Analysis of In-Situ Wafer Bowing
Measurements for III-Nitride Device Growth**

09:00-09:25 **Dr. Swami Srinivasan**

Product Manager, Veeco Instruments Inc, USA

**Advanced In-Situ Metrology for MOCVD Process
Optimization for LEDs**

09:25-09:50 **Prof. Michael Heuken**

Vice President Corporate Research and Development,
AIXTRON AG, Germany

**Novel MOCVD Reactors for Large Scale Production of
Solid-State Light Emitters**

09:50-10:10 **Prof. Zhiyin Gan**

Huazhong University of Science and Technology

**Modeling and Simulation of Typical Commercial MOCVD
Reactors**

10:30-10:50 **Dr. Jörg Koch**

Technical Sales and Marketing Manager, Akzo Nobel High
Purity Metalorganics, Germany

Metalorganics for Solid State Lighting

10:50-11:10 **Dr. Joachim. F. Voitok**

Product Support XRD, PANALytical, Netherlands

**From Lab to Fab: X-ray Diffraction Solutions for Nitride
LEDs**

11:10-11:30 **Dr. Haiping Shen**

Everfine Photo-E-Info Co., Ltd, China

**Research on the Standard Measurement Method for LED
Road Lamps**

11:30-11:50 **Mr. Guo Dong**

The 45th Research Institute of China Electronics Technology
Group Corp, China

**Automation in LED Packaging Current Status and Future
Trends for Fully Automatic LED Die-Bonding**

2007CHINASSL PHOTO GALLERY

Conference & Session Chairs, Conference Secretaries and Speakers



Fabio Nehme
Projects Officer, Environmental Finance Group, International, Finance Corporation, World Bank



Frank Ma
CEO, Photonics Industry and Technology Development Association (PIDA)



Gang Li
General Manager, Semiconductor Division of FangDa Group Co., Ltd



Gang Wang
Professor, Sun Yat-Sen University, China



Gerhard Kuhn
Director Application Asia, OSRAM China Lighting



George Craford
Chief Technology Officer, Philips Lumileds Lighting Company



Guido van Tartwijk
Director SSL Development, Asia Pacific Region, Philips Lighting



Guoqing Tang
General Secretary of Shanghai Optoelectronics Trade Association



Guoyi Zhang
Vice Director, Semiconductors Research Center, Peking University



Ian Ferguson
Professor, School of Electrical and Computer Engineering, Georgia Institute of Technology



Jeff Y Tsao
Principle Member of Technical, Sandia National Laboratories



JianGen Pan
CTO, EVERFINE
Vice Chairman, Metrology Committee of CIES



Jinmin Li
President, Institute of Semiconductors, Chinese Academy of Sciences
Executive Chairman, China Solid State Lighting Alliance



Joachim F. Voitok
Product Support XRD, PANalytical, Netherlands



Jörg Koch
Technical Sales and Marketing Manager, Akzo Nobel High Purity Metalorganics



Jun Ruan
Deputy Director, National Solid State Lighting Program Office
Vice Secretary, China Solid State Lighting Alliance



Kei May Lau
Professor, Hong Kong University of Science & Technology



Klaus Ziemssen
Director, Global LED Systems Division, OSRAM GmbH

2007CHINASSL PHOTO GALLERY

Conference & Session Chairs, Conference Secretaries and Speakers

	<p>Kolja Haberland Head, Customer Support Department, LayTec GmbH</p>		<p>Lianghai Chen Academician, Chinese Academy of Engineering Professor, Institute of Semiconductors, Chinese Academy of Sciences</p>
	<p>Ling Wu Director, National Advanced Materials Productivity Promotion Center General Secretary, China Solid State Lighting Alliance</p>		<p>Liu Sheng Professor, Huazhong University of Science and Technology, China Associate Editors, IEEE Trans. On Electronic Packaging Manufacturing</p>
	<p>Luke Yao Research Director, Optoelectronic Technology & Market, DisplaySearch</p>		<p>Michael Heuken Vice President, Corporate Research & Development, AIXTRON AG</p>
	<p>Michael Lebby President & CEO, Optoelectronics Industry Development Association (OIDA)</p>		<p>Muqing Liu Director, Institute of Electrical Light Sources, Fudan University Secretary, LS:11 Local Committee</p>
	<p>Nadarajah Narendran Director of Research, LRC, Rensselaer Polytechnic Institute</p>		<p>Paul E. Burrows Laboratory Fellow, Pacific Northwest National Laboratory</p>
	<p>Ray Letasi Vice President, Asian Market-APAC and Japan, Color Kinetics Inc</p>		<p>Richard Sy General Manager of Hongkong COTCO Holdings Ltd., China</p>
	<p>Robert V. Steele Director, Optoelectronics Programs, Strategies Unlimited</p>		<p>Robert Walker Principal, YEBY Associates</p>
	<p>Russell D. Dupuis Director, Center for Compound Semiconductors, Georgia Institute of Technology</p>		<p>Schiu Sche President, NeoStones MicroFabrication</p>
	<p>Shuji Nakamura Professor, University of California, Santa Barbara</p>		<p>Steve Denbaars Professor, University of California, Santa Barbara</p>

2007CHINASSL PHOTO GALLERY

Conference & Session Chairs, Conference Secretaries and Speakers

	<p>Sun Zhuo Professor, East China Normal University Executive Chair of IEEE "International Nanoelectronics Conference 2008"</p>		<p>Swami Srinivasan Product Manager, Veeco Instruments Inc.</p>
	<p>Tsunemasa Taguchi Professor, Yamaguchi University, Japan</p>		<p>Tuan Yee Lim Application Engineer, NuSil Silicone Technology LLC</p>
	<p>Wei Chen Manager, Application Engineering and Technical Services – Greater China, Dow Corning Corporation</p>		<p>Winter Cheng Power Management Product Application Engineer, Asia Pacific, National Semiconductor</p>
	<p>X. Gordon Liu General Manager, China Operations, Intematix Corporation</p>		<p>Yandan Lin Associate Professor, Institute for Electric Light Sources, Fudan University Chinese Official Member, CIE Div 4</p>
	<p>Yansheng Guo Director, Shanghai Research Center of Engineering and Technology for Semiconductor Lighting</p>		<p>Yi Luo Professor, State Key Lab on Integrated Optoelectronics, Tsinghua University</p>
	<p>Young Moon Yu President, Society of LED and Solid State Lighting, Korea</p>		<p>Yubo Fan President, Xiamen Hualian Electronics Executive Chairman, China Solid State Lighting Alliance</p>
	<p>Zhanguo Wang Academician, Chinese Academy of Sciences Professor, Institute of Semiconductors, Chinese Academy of Sciences</p>		<p>Zizhao Gan Academician, Chinese Academy of Sciences Director, Semiconductors Research Center, Peking University</p>