



CLEO®/Pacific Rim 2003

NEWSLETTER

The 5th Pacific Rim Conference on Lasers and Electro-Optics
December 15-19, 2003, The Grand Hotel, Taipei, Taiwan

December 10, 2003

No.2

cpr2003@cc.ee.ntu.edu.tw

http://cc.ee.ntu.edu.tw/~cpr2003

Industrial Forum

Solid-State Lighting Technology and Market Trends

The rapid development of Taiwan's optoelectronic industry in recent years has been remarkable. The industry sectors of optical storage, display, imaging and optoelectronic components in Taiwan are among the top manufacturers in the world.

Sponsored and organized by the Optical Engineering Society, Taiwan and the Industrial Technology Research Institute (ITRI), Taiwan, CLEO/PR 2003 offers a special Industrial Forum in addition to its technical program. The Industrial Forum will give a general overview of Taiwan's optoelectronic industry with focus on the emerging technology using solid-state light sources for general illumination and lighting applications. In particular, the market potential, technologic trends and future development direction of solid-state light sources will be assessed by leading experts in the fields.

The participation of the Industrial Forum requires a US\$ 50 or NT\$ 1500 (after November 15, 2003) fee per person. The forum is still open for enrollment.

ABOUT THE SPEAKERS

Dr. Yung S. Liu (also the Forum Chair) is a Fellow and VP of ITRI, Taiwan and currently serves as the General Director of the Opto-Electronics & Systems Labs, ITRI, Taiwan. Dr. Liu's expertise includes optical data communication, advanced interconnect, solid state lasers, and nonlinear optical devices.

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INDUSTRIAL FORUM AGENDA (2003/12/17, AUDITORIUM, 10F)

<u>Time</u>	<u>Title of the Talk</u>	<u>Speaker</u>
14:30~15:00	Overview of the Optoelectronics Industry in Taiwan	Dr. Yung S. Liu
15:00~15:30	LED Technology : Status, Trends and the Requirements for Solid State Lighting	Dr. M. George Craford
15:30~16:00	Coffee/Tea Break	
16:00~16:30	The Technical Hurdles to the Implementation of Solid State Lighting in General Illumination	Prof. Ian T. Ferguson
16:30~17:00	Solid State Light : Solution and Realization	Dr. Volker Haerle
17:00~17:30	On Future Equipment and Related Manufacturing Issues	Dr. Michael Heuken
17:30~18:00	Market Overview on LEDs	Dr. Jagdish H.D. Rebello
18:00~18:30	Q & A	Dr. Yung S. Liu

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Weather Forecast - Taipei



Monday, 12/15
Partly Cloudy
14~21°C



Tuesday 12/16
Partly Cloudy
14~21°C

Source: Central Weather Bureau

Announcements

FINAL CONFERENCE PROGRAM

The conference program is final and is available online at CLEO/PR 2003 official website <http://cc.ee.ntu.edu.tw/~cpr2003>, under the [Program Schedule] link.

POSTDEADLINE SESSION

CANCELLATION

Since there are not enough postdeadline paper submissions. The postdeadline session is cancelled and all submitted post-deadline papers will be presented in the either the oral or poster sessions.

Industrial Forum (Continued from page 1)

Dr. M. George Craford is currently the Chief Technology Officer of Lumileds Lighting, a joint venture of Agilent Technologies and Philips Lighting, located in San Jose, CA, USA. Dr. Craford's research has focused mainly on the development of visible light emitting diodes using a variety of compound-semiconductor materials. He has led the development of nitrogen-doped GaAsP technology, AlInGaP LED's, and AlGaAs and InGaN products while he was at the Monsanto Chemical Company and Hewlett Packard.

Dr. Ian Ferguson is a Professor at Georgia Institute of Technology, USA. Dr. Ferguson joined Georgia Tech from EMCORE Corporation where he served as a Director of Research. Dr. Ferguson's research interests include Solid-state lighting, LEDs/lasers for UV and BIO applications, MOCVD Growth and fabrication of GaN-based materials, intelligent epitaxy, spintronics,

Table Top Exhibit

A Table Top Exhibit will be run alongside CLEO/PR 2003. The exhibit time and location are

Time: 12:00~18:00, Tuesday, December 16

8:30~18:00, Wednesday & Thursday, December 17 & 18

8:30~12:00, Friday, Dec. 19

Location: 1F, The Grand Hotel, Taipei, Taiwan

EXHIBITORS

AIXTRON AG. AIXTRON is the world's leading manufacturer of state-of-the-art MOCVD equipment for the production of compound semiconductors. In particular AIXTRON's large-scale Planetary Reactor® systems have lead to the worldwide acceptance of CVD technology as both an efficient and valuable production tool.

Collimage International Co., Ltd. Collimage International is a leading supplier of laser, opto-electronics instrument and components. The products include Laser & Accessories, Optical Measurement Systems, Optics & Materials, Optical Thin Film Software, Microdisplay and Ferro-electric Thin Film Analyzer

Creative Stars Electro Optics Co., Ltd. Creative Stars offers a full line of manually-operated and motorized positioning equipment for motion control and precision applications. It also supplies optical components such as mirrors, beam splitters, prisms, lenses, and customized precision optics.

Hamamatsu Photonics K. K. Information about Hamamatsu Photonics K. K. can be found at <http://www.hamamatsu.com/>.

Kintech Corporation. Kintech Corporation is a world leader in materials shaping and surface finishing technology.

Newport Corporation, Taiwan Branch. Newport

and entrepreneurship.

Dr. Volker Haerle is the Head of GaInN R&D at Siemens/OSRAM, Germany since 1999.

Dr. Michael Heuken is the Vice President of Corporate Research & Development, Aixtron AG, Germany. Dr. Heuken's main research interests are in the fields of semiconductor growth by MOVPE, materials characterization, device technology, and electronic and optoelectronic devices and circuits.

Dr. Jagdish H. D. Rebello is a Senior Industry Analyst with iSuppli Corporation. He analyses different high technology application markets and application-specific at optical and semi-conducting components. He also provides analysis on emerging technologies, while assessing their market impact.

Corporation is a leading global supplier of advanced technology products and systems to the semiconductor, communications, life science and research markets.

Onset Electro-Optics Co., Ltd. Onset Electro-Optics is a supplier of optoelectronics instrument and components. The products include lasers & laser accessories, optics & materials, opto-mechanics, imaging system, fiber-optics, test-measurement and educations.

RiTdisplay Corporation. RiTdisplay Corporation is the first company in Taiwan to invest in research and development (R&D) and manufacturing of the organic light-emitting diode (OLED). RiTdisplay is also the only company in the world that have mass production lines for both small molecule OLED (SMOLED) and polymer OLED (PLED).

Springer-Verlag GmbH Co. KG. Springer-Verlag is one of the most important scientific publishing houses worldwide. Its range of publications covers all of the natural sciences with a particular emphasis on mathematics, medicine and engineering.

SuperbIn Company, Ltd. SuperbIn is the exclusive representative in Taiwan of companies like Coherent, Exitech, JSW, Lambda Physik, LaVision, Physik Instrumente, Quantel, Nanotechnology, etc.

Tayhwa Technology Co., Ltd. Tayhwa Technology is a professional import agent of opto-electric products. Its offerings include laser and opto-electric components, opto-electric measurement instruments, opto-electric positioning instruments, automatic fiber alignment systems, and equipment for fiber active and passive components manufacturing.

Unice E-O Services Inc. Unice E-O Services Inc. is the professional agent, marketing, manufacturing and exporting factory and is a supplier of optoelectronics instrument and components.

Transportation

The CLEO/PR 2003 Newsletter Staff has edited this transportation information. We hope this information will be valuable to all conference attendees.

TRANSPORTATION FROM CKS INTERNATIONAL AIRPORT TO THE GRAND HOTEL

The Grand Hotel is one hour from CKS International Airport. To come from CKS International Airport to the Grand Hotel by the public transportation, you may

1. Take a passenger transport bus from CKS International Airport to the MRT Yuanshan Station in Taipei. See below for information about the passenger transport bus.
2. Take the shuttle bus offered by both the conference and the Grand Hotel from the MRT Yuanshan Station to the Grand Hotel. See below for information about the shuttle services.

PASSENGER TRANSPORT BUS SERVICES AT CKS INTERNATIONAL AIRPORT

Passenger transport bus services are available between CKS International Airport and Taipei. The ticket counters are located at the Arrival Passenger Reception Areas of both terminals. The fares vary from NT\$110 to NT\$140 per person, one way. There are boarding areas at both airport terminals.

The Evervoyage Bus, 03-3570498, has a stop at the MRT Yuanshan station, where you can take the shuttle bus to the Grand Hotel. Other buses may have stops at the nearby hotels. For more information, please visit <http://www.cksairport.gov.tw/english/transportation/taipei.htm>.

TAIPEI MRT SYSTEM

The Taipei Metropolitan Rapid Transit Systems (TMRTS), or simply MRT, is the axis of public transport in the Great Taipei Metropolitan Area. The nearest MRT Station to the Grand Hotel is the Yuanshan Station. The Yuanshan Station is along the Danshui (Red) or Zhonghe (Orange) Line.



The following outlines some facts about the MRT.

1. Lines. There are six lines, each one is represented by a color – Muzha Line (Brown), Danshui Line (Red), Xiaonamen Line (Light Green), Bannan Line (Blue), Xindian Line (Green), and Zhonghe Line (Orange).
2. Operation Hours. 6:00~24:00 (Train departure time)
3. Where to buy the tickets? Tickets can available at the ticket vending machines in the station.
4. Ticket fares. Adult single fares vary from NT\$20 to \$65 depending on the travel distance.
5. Ticket types. There are several types of tickets.

Among them, the single-journey ticket is good for one passenger, one journey and is valid only on the issuing day. The one-day pass, which costs NT\$150, is valid only on the issuing day and allows you to take unlimited journeys and distance on all MRT routes.

If you are taking the MRT frequently during your stay, it is recommended that you purchase an EasyCard.



Single
Journey
Ticket



Easy
Card

The EasyCard. The EasyCard is an IC ticketing system for the MRT, the Taipei City Bus, and car parks. The value of the card is NT\$500 including a NT\$100 deposit (meaning only \$NT400 can be deducted). When you take the MRT with the EasyCard, the fare of the trip will be deducted from the card. With the EasyCard, you can have a %20 discount on each MRT trip and a discount transferring to and from a Taipei City Bus to the MRT Station. You may reload the card using the reload machine located in any MRT Station. The card can be returned for a refund of the deposit and the unused value. A \$20 processing fee may apply.

For more information, please visit <http://english.trtc.com.tw/>

SHUTTLE SERVICES

Two free shuttle bus services are available.

Conference Shuttle Service.

Available Dates: December 16~19

Route: The MRT Yuanshan Station - The Grand Hotel Main Lobby - The MRT Yuanshan Station.

Operation Hours: 7:30~21:30 December 16~17

7:30~19:30, Thursday, December 18

7:30~13:30, Friday, December 19

Frequency: Every 7~8 minutes during peak hours

Every 15 minutes during regular hours

Peak hours: 7:30~10:00, 12:00~14:30, 18:00~21:30

One-Way Time: 7~8 minutes.

The Grand Hotel Shuttle Service.

Available Dates: Throughout the entire year

Route: The Grand Hotel Main Lobby - the MRT Yuanshan Station - The Grand Hotel Main Lobby.

Operation Hours: Every 20~30 minutes, 6:30~22:00

Departure Place: The Grand Hotel Main Lobby

Departure Time: 06:30 07:00 07:30 08:00 08:20 08:40
09:00 09:30 10:00 10:30 11:00 11:20 11:40 12:00 12:20
12:40 13:00 13:30 14:00 14:30 15:00 15:20 15:40 16:00
16:20 16:40 17:00 17:20 17:40 18:00 18:20 18:40 19:00
19:20 19:40 20:00 20:20 20:40 21:00 21:20 21:40 22:00

Services Available at the Conference Site

LANGUAGE SUPPORT

To better serve the conference attendees, staff with different language capability will be on duty at the registration counters. The supported languages include English, Chinese (Mandarin), Japanese, and Korea.

INTERNET ACCESS

Internet access will be available during the conference dates in the Computer Room (Room 108). There will be limited on-site computers as well as router ports available.

SHUTTLE SERVICES

Please see the "Transportation" section in Page 3 of this newsletter for detailed information about the shuttle services.

Conference Reminders

CONFERENCE BADGE

Please always wear your conference badges during the conference. Badges will be checked whenever you enter a conference room.

SPEAKERS: CONFIRM YOUR PRESENTATION SESSIONS AND TIMES

The *final* conference program is now available online. Please confirm your presentation sessions and times once again.

SPEAKER CHECK-IN

It is recommended that all presidors and speakers, oral or poster, should check in at least 30

minutes before the associated session starts. The presider/speaker check-in station is in the Computer Room (Room 108).

EQUIPMENT FOR PRESENTATION

LCD projector with a laptop computer is the default setup in each room. Although personal laptop computers may be used, the speakers are suggested to arrive early and pre-load their presentation files into the laptop computer prepared by the conference. There will be limited computers and LCD projectors for speakers to test their equipment or files in the Computer Room (Room 108).

If you need overhead projector or slide projector, please inform the CLEO/PR 2003 staff through e-mail prior to the conference. The e-mail address is cpr2003@cc.ee.ntu.edu.tw.

SIZE OF THE POSTER

The size of the poster is 150 cm in width and 120 cm in height.

National Palace Museum Tour

A tour to the National Palace Museum may be signed up. Please check the Information Desk during the conference for more details.

Correction of Newsletter No.1

In Page 1, the Industrial Forum is sponsored and organized by the Optical Engineering Society, Taiwan and the Industrial Technology Research Institute (ITRI), Taiwan.

CLEO/PR 2003 Statistics

ATTENDEES

The following data are collected by 2003/12/9

Registered Attendees 640

Attendees' Nationalities

Australia	11
Canada	6
China	9
Germany	9
Hong Kong	19
Japan	170
Korea	40
Russia	6
Singapore	8
Taiwan	289
UK	8
USA	39
Other Countries	26

FOREIGN STUDENT TRAVEL

AWARDS

Applicants	36
Awards	15

About the CLEO/PR 2003 Newsletter

The CLEO/PR Newsletter is brought to you by the CLEO/PR local arrangement committee. The newsletter will be published weekly prior to the conference and daily during the conference. The newsletter will provide the attendees the most updated news about the conference. For questions and comments, please contact cpr2003@cc.ee.ntu.edu.tw.

CLEO/PR 2003 Newsletter Staff