



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 2, 2003

No.1

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

CLEO/Pacific Rim 2003

A Preview of the Fifth Meeting

Postponed due to the Severe Acute Respiratory Syndrome (SARS), the Fifth Pacific Rim Conference on Lasers and Electro-Optics (CLEO/PR 2003) will now take place at the Grand Hotel, Taipei, Taiwan, December 15~19, 2003.

This year, the technical program of CLEO/PR offers a great amount of technical papers in a large variety of choices. In the plenary sessions, the three invited plenary speakers Dr. Tingye Li, Dr. Dieter Bimberg, and Dr. Philip Russell will share their visions of next-generation optical networks, quantum dots, and photonic crystal fibers. In the technical sessions, the 103 invited papers will span on a wide range of hot topics and the 9 tutorials will provide basic understanding of important areas. There are also about 650 contributed papers. Among them, 400 will be presented in 10 parallel sessions, while the remaining 250 will be arranged in two poster sessions.

CLEO/PR also offers a special session - the Industrial Forum. It is sponsored and organized by the Industrial Technology Research Institute, Taiwan. The Industrial Forum will give an overview of Taiwan's optoelectronic industry and the emerging technology using solid state light sources for general illumination and lighting applications.

This year's CLEO/PR will cover a range of state-of-the-art research topics. We hope that the selection of technical programs will provide both breadth and depth.

Event Highlights

***Events are listed chronologically

| <u>Event</u> | <u>Date</u> | <u>Time</u> | <u>Location</u> |
|-------------------------------------|---|----------------------------|--------------------------|
| Opening Ceremony & Plenary Sessions | Tuesday, 2003/12/16 | 9:00~12:30 | The Grand Ballroom (12F) |
| Conference Reception | Tuesday, 2003/12/16 | 18:30~20:00 | The Grand Ballroom (12F) |
| Poster Papers | Wednesday, 2003/12/17 Thursday, 2003/12/18 | 13:30~15:30 13:30~15:30 | Der-Hou Room (B1) |
| Industrial Forum | Wednesday, 2003/12/17 | 14:30~15:30 16:00~18:30 | Auditorium (10F) |
| Conference Banquet | Wednesday, 2003/12/17 | 18:30~20:00 | Fu-Chuan Room (B1) |

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Announcements

CONFERENCE PROGRAM AVAILABLE ONLINE

The conference program is now available online at CLEO/PR 2003 official website

<http://cc.ee.ntu.edu.tw/~cpr2003>, under the [Program Schedule] link. The paper copies of the program will be available at the registration desk during the conference and will NOT be mailed before the conference.

To authors: please re-confirm your presentation sessions and times. Changes will be posted online and will not be notified individually.

POSTER SESSIONS RE-SCHEDULED

The poster sessions are re-scheduled to 13:30 ~ 15:30 (it was 13:00 ~ 15:00 originally) for both the Wednesday and Thursday sessions. To authors of the poster papers: please put on your posters before 13:30 and tear them down no later than 16:30.

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Message from the Organizer

Welcome to Taipei. Mid-December is a pleasant season in Taipei. We expect a very successful conference.

The Fifth Pacific Rim Conference on Lasers and Electro-Optics (CLEO/PR 2003) has experienced a longer organization time than others due to the SARS epidemic in April through June 2003. This conference has been postponed from July to December. With the postponement, we have accepted the second-run paper submissions and the replacements of the accepted papers for updating the contents. The total contributed paper submissions amount to 710 with about 650 papers accepted for presentation. Among them, around 60% of papers are presented orally and the

other 40% of papers are presented with posters. Including the plenary, tutorial, and invited papers, the total presentation number at CLEO/PR 2003 is around 770.

This conference has been financially sponsored by many local government units, universities, research institutions, and private companies. We would take this opportunity to express our sincere gratitude for their supports.

C. C. Yang, December 2003
Organizer and the Technical Program Chair
of CLEO/PR 2003

Opening Ceremony and Plenary Sessions

The conference begins with a 30-minute opening ceremony at 9 am on Tuesday, December 16. Four guest speakers are invited to the ceremony. They are Dr. Che-Ho Wei, Minister, National Science Council, Taiwan, Dr. Yuan-Tseh Lee, Nobel Laureate Chemistry, and President, Academia Sinica, Taiwan, Dr. Johnsee Lee, President, Industrial Technology Research Institute, Taiwan, and Dr. Wei-Jao Chen, President, National Taiwan University, Taiwan.

The plenary speeches will follow the ceremony. Three outstanding speakers are invited – Dr. Tingye Li, Dr. Dieter H. Bimberg, and Dr. Philip Russell.

Dr. Tingye Li retired in December 1998 after a 41-year research career at Bell Labs and AT&T labs in micro-waves, lasers, and optical communications. His early work on laser resonator modes is fundamental to the theory and practice of lasers. He also led the work on amplified WDM transmission and advocated its deployment for upgrading network capacity. He has received many awards and honors, among which are the OSA 1997 Frederic Ives Medal/Jarus Quinn Endowment, and the AT&T 1997 Science and Technology Medal. Dr. Li's talk will examine some of

the technological advances that promise economic advantages for the next-generation optical networks, not only regarding capital costs, but also operational expenditures.

Dr. Dieter Bimberg is a Professor and the Executive Director of the Solid State Physics Institute at the Technical University of Berlin, Berlin, Germany. His research interests include the physics of nanostructures and nanostructured devices, like quantum dot lasers, and amplifiers, wide gap semiconductor heterostructures and high speed photonic devices. He is an honorary membership at the A. F. Ioffe Institute at St. Petersburg and the winner of the Russian State Prize in Science and Technology 2001. In his speech, Dr. Dieter H. Bimberg will present a lecture on quantum dots (QDs), lasers with ultra-low transparency currents and amplifiers with gain recovery time as short as 70fs, both based on QDs, and QDs for computing and cryptography.

Continued on next page

PLENARY SESSION AGENDA (LOCATION: THE GRAND BALLROOM, 12F)

| <u>Time</u> | <u>Program</u> | <u>Presider</u> | <u>Speaker(s)/Title of the Speech</u> |
|-------------|------------------|---|--|
| 9:00~9:30 | Opening Ceremony | C. C. Yang, National Taiwan University, Taiwan | Che-Ho Wei, Minister, National Science Council, Taiwan Yuan-Tseh Lee, President, Academia Sinica, Taiwan Johnsee Lee, President, Industrial Technology Research Institute, Taiwan Wei-Jao Chen, President, National Taiwan University, Taiwan |
| 9:30~10:20 | PS1 | Y. S. Liu, Industrial Technology Research Institute, Taiwan | Tingye Li, retired from AT&T Labs-Research, USA "Physics, economics, and innovation: Building the next generation optical network." |
| 10:20~10:50 | Coffee Break | | |
| 10:50~11:40 | PS2 | T. Y. Chang, National Sun Yat-Sen University, Taiwan | Dieter H. Bimberg, Technical University of Berlin, Germany "Quantum dots for lasers, amplifiers, and computing." |
| 11:40~12:30 | PS3 | S. Chi, National Chao-Tung University, Taiwan | Philip Russell, University of Bath, UK "The photonic crystal fiber revolution." |

Opening Ceremony and Plenary Sessions (cont'd)

Dr. Philip Russell is a professor in the Department of Physics at the University of Bath, where he heads the Optoelectronics Group. He has helped pioneer a number of developments in fiber gratings, photonic band gap materials, acousto-optic fiber devices, nonlinear optics and periodically poled materials. In 2000, Dr. Russell won OSA's Joseph Fraunhofer Award/Robert M. Burley Prize for his invention of photonic crystal ("holey") fiber. Dr. Russell will present the revolution of photonic crystal fibers (PCFs) research since the first working example was produced by his research group in late 1995.

The detailed agenda of the plenary session is provided at Page 2 of this newsletter.

Conference Reception and Banquet

The conference reception will be arranged at the Grand Ballroom (12F) in the evening of December 16, 2003. All conference registrants are welcomed to the reception.

The conference banquet will be held at the Fu-Chuan Room (B1 floor) at the Grand Hotel, 6:30-8:00 pm, Wednesday, December 17. At the banquet, you can enjoy not only the delicious meal of the Grand Hotel, but also the excellent performances of traditional Chinese dancing of a professional group. Besides, we are honored to have Dr. Charles Kao joining us at the banquet. Dr. Kao made great contributions to the invention of optical fiber. He will give a brief speech at the banquet.

The participation of the banquet requires tickets. The tickets can be purchased with registration or separately. The rate of the ticket is US\$ 60 or NT\$ 2,100 for both regular and student attendees.

Announcements (continued from page 1)

SHORT COURSE CANCELLATION

Due to the short of pre-registration (less than 10 people per course), all the short courses scheduled on December 15 are cancelled. We apologize for any inconvenience. For those who have registered, the registration fee for the short course(s) will not be charged.

REGISTRATION

The receipt. The receipt will only be available at the registration desk upon registration or check-in. It will NOT be mailed if you pre-register. We apologize for any inconvenience.

Paying cash. If you intend to pay cash for the registration fee on-site, please be aware that only New Taiwan dollars are accepted at the registration desk.

HOTEL RESERVATION

The Grand Hotel is full and can no longer take any reservation for rooms during the conference dates. Please do not fax your reservation form to the Grand Hotel. Please check the availability of rooms at other hotels. A list of hotels near the conference site is available at CLEO/PR 2003 website <http://cc.ee.ntu.edu.tw/~cpr2003> under the [Hotel Information] link.

Foreign Student Travel Awards

The CLEO/PR 2003 Foreign Student Travel Award program was established to help students to travel to present their papers. There are 36 applicants and 15 of them are awarded. The winners are: Carlo Amadeo C. Alonzo, Philip W. Y. Chak, Ning Deng, Chung Yan Fong, Agung Budi Hartanto, Yuk Ha Kwan, Yicheng Lai, Songyang Li, Shuichi Makita, Masashi Masuda, Jong Ju Park, Sharafuddin Md. Sharif, Shigeki Tokita, Akihiro Yamanaka, and Ming-Chuan Yang.

About the CLEO/PR 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 Newsletter Staff