



Photonics Society of Chinese-Americans

Issue 0041: October 1, 2000

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10-Year Commemorative Issue of Photonics Link

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President's Message

Dear PSC Members,

It is a great honor to serve as your president of PSC. Through the dedication of our previous officers and the tireless support of many volunteers, the organization has grown to more than 800 members worldwide. The PSC related activities, such as the annual OFC dinner, are now routinely attracting hundreds of participants. As we enter into the new millenium, it is time to increase the reach and scope of PSC even further. To achieve this, I call on all members to contribute to the cause:

1. Presentation as well as participation: PSC is currently a sponsor of four major professional conferences organized by Chinese American professionals: the WIRELESS AND OPTICAL COMMUNICATIONS CONFERENCE (WOCC) in April, the MULTIMEDIA AND NETWORKING TECHNOLOGY in November, the MICROELECTRONICS & MICROELECTROMECHANICAL SYSTEMS CONFERENCE (MMSM) in November, and the PSC ANNUAL MEETING in conjunction with CLEO. The Northern California Chapter of PSC has held monthly seminars in the photonics fields. In addition, both the Southern California and Atlantic Chapters have meetings throughout the year. PSC needs more activities like these and more members participating in them.

2. Improve communication with and among PSC members. The three major local chapters, Northern California, Southern California and Atlantic, all maintain informative web sites. The PSC headquarter home page currently resides with the Atlantic chapter web site (www.psc-a.org) with links to all other PSC local chapter sites. For those local chapters without dedicated web sites, I would like to invite them to send their activity announcements and correspondence of local events to the PSC headquarters so that they can be made available to all PSC members on a timely basis. I should also point out that Chun-Ching and Su-Miau Shih have kept the excellent communication journal "Photonics Link" published regularly for *ten years*. The Photonics Link is now posted on all PSC web sites and many of the back issues are available for interested members. In the coming year, we shall put the membership directory on the PSC web site, to further expand the communication and networking functions among PSC members.

3. Improve PSC's financial condition. The society always has difficulty collecting membership fees. Currently the best vehicle to collect the annual dues is during each PSC activity event carried out in a local basis. By not having a society-wide database hinders the fee collection process considerably. We hope that by establishing the database we can improve the membership dues collection at many of the national events. Better yet, if all concerned PSC members can take time to send in his/her annual due, our organization will be in much better financial shape and we will be able to organize many more events to serve all members. My predecessor, Dr. Bob Lin, has initiated a drive to solicit support/sponsorship from industry. We will expand the fund raising effort this year. The Correspondence Secretary Dr. Liu, from MCI, will lead the drive to seek support from many highly successful start-ups as well as established companies in fiber optics.

4. Promoting entrepreneurship. One of the recent exciting developments in our field is the proliferation of new companies. The engineers are directing many of these start-up companies and are also the main beneficiaries of the financial rewards. We are in the right field at the right time! To promote entrepreneurship, the society will organize more financial and business seminars. We will also expand our networking functions to bring engineers, scientists, and venture capital investors together.

Finally, I welcome any suggestions that would make PSC more useful to you and other members. I can be reached by e-mail: ychen@umbc.edu or by phone 410 455-3507 (O), 410 461-8296 (H).

Y. J. (Ray) Chen

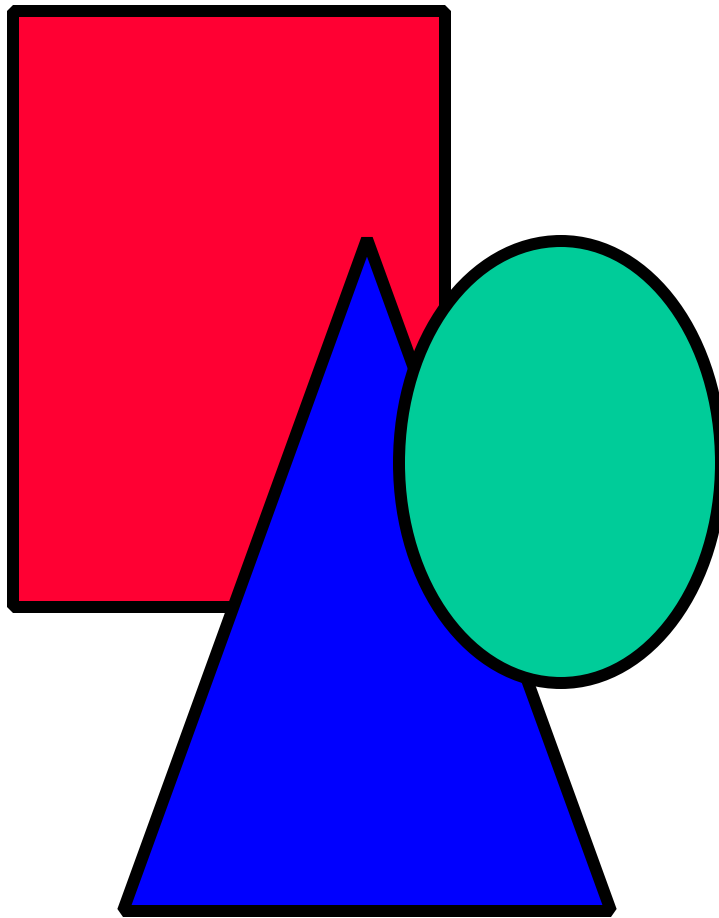
2000-2001 PSC Officers:

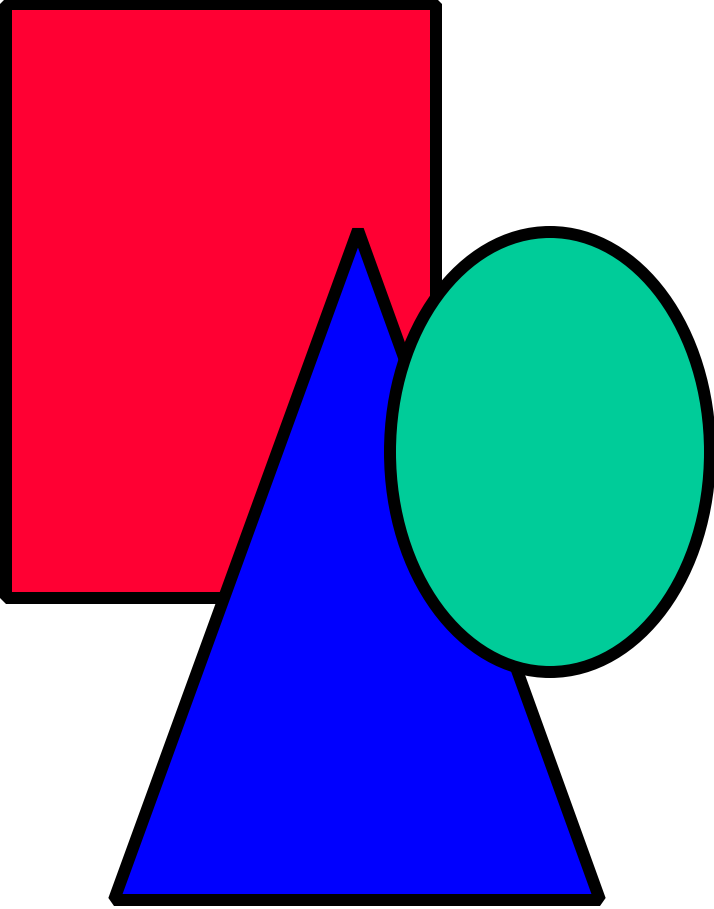
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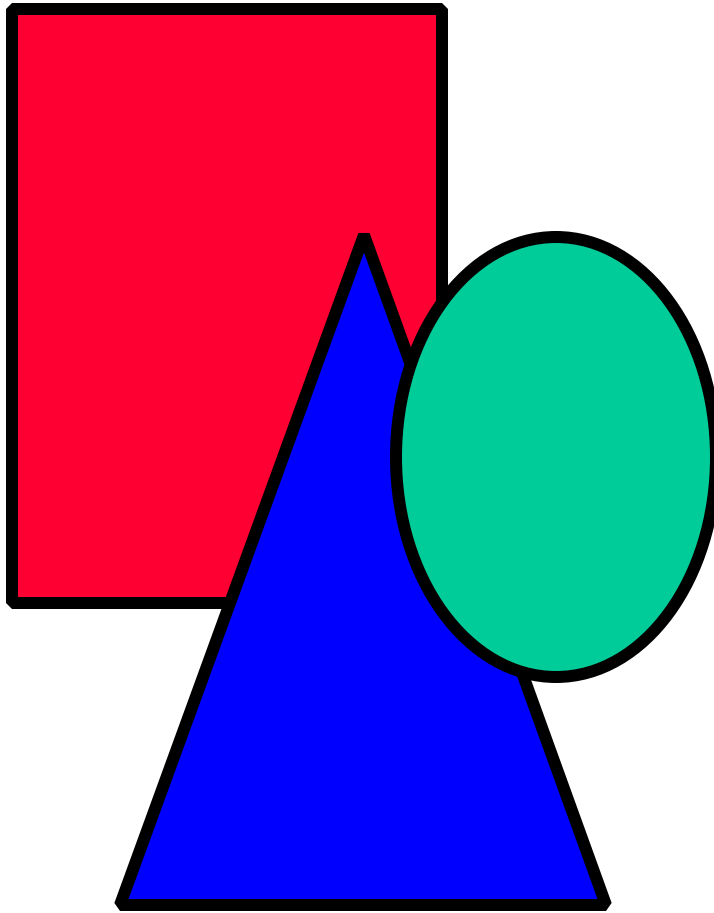
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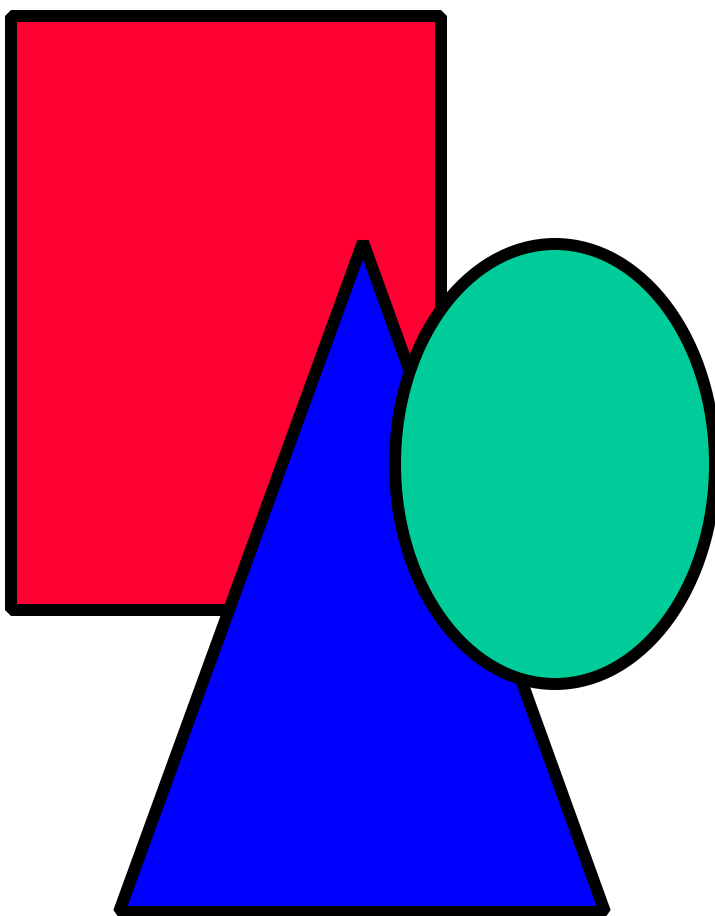
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Historical Document: Cover Page of First Issue of Photonics Link









Report on International Optoelectronics Exposition

Taipei, Taiwan, July 27-30, 2000

The Millenium International Optoelectronics Exposition and the Photonics Industry in Taiwan

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President, Lumin, Inc.
South Pasadena, CA 91030
&
Distinguished Visiting Scientist
Oak Ridge National Laboratory
Oak Ridge, TN 37831

To read a good book is a great joy, to visit the photonics products being marketed is a multiplicity of a great joy. To view the Millenium International Optoelectronics Exposition in Taipei July 27-30 opened up my eyes to the wonderful fruits of the scientific achievements of the 20th century. The first Taipei Exposition, which started in 1984, has grown up like a healthy and energetic youth with a brilliant future. The Exposition includes photonic materials, components, and equipment, optical data storage and display, fiber optics, and lasers and many applications and relevant supporting tools and equipment. One can see that the basic research of modern quantum mechanics and digital computers has been implemented miraculously in different devices and systems.

The status of the 1999 photonics industry in Taiwan and the world and the status of specific products including the LCD, CD-ROM, LED, digital camera, and lasers and applications have been described with statistics in the No. 84 of this Opto News & Letters. Interested readers may refer to the comprehensive articles in the Opto News & Letters for details of these products and manufacturers. More coverage may be found in "Taiwan Optoelectronics Industry Summary for year 2000" and "2000-2001 Taiwan Photonics Buyer's Guide." This article documents only my own impression obtained from the Exposition and the company site visit hosted by the Photonics Industry & Technology Development Association (PIDA).

In the Exposition, the government laboratories have presented their R&D accomplishments. The Industrial Technology Research Institute (ITRI) of the National Science Council (NSC) has been playing a leading role for technology R&D and transfer for many years. The Opto-Electronics & Systems and Electronics Laboratories has presented a series of products including Switchable Fiber Bragg Filters, Automated Light-Coupling Systems, Four-Channel Dense Wavelength Division Multiplexer Filter Modules, 1.3 μm PIN Photo-Detectors and Laser Diodes, Optoelectronics Device Micro-Assembly, LCD Rear Projector, stereo picture formation by lenticular method, and CDs and DVDs. The Precision Instrument Development Center (PIDC) of the NSC has three laboratories respectively in charge of microsystem, electro-optics, and vacuum technologies. The PIDC has optical and mechanical fabrication and calibration capabilities. The Chung-Shan Institute of Science and Technology has presented an assembly of the advanced materials including metal, ceramic, composite, and machano-electric materials and their related components and devices. For their specific missions, they made, for example, Night Vision Systems, Laser Target Observer, Precision Laser Ranger Finder, Head-Mounted Display, Fiber Video/Audio Transmission System, and Fiber

Gyroscopes, which should have military and civilian dual applications. The Institute also has material testing and evaluation capabilities.

The hottest topic at the Exposition is **optical display** of which the liquid crystal (LC) display played an extremely important role. The first 2-inch Epison B&W LCTV hit the market in 1984 by Radio Shack with a unit price of about \$100. I used it at JPL for optical data processing to replace the \$25,000 Hughes LC Light Valve and acquired patents on this and later the concept of projection display. However, the resolution and contrast of the LCTV were poor at that time. With the advancement of the TFT, color filter, back light, polarizer, integrated circuits, photolithography, and LC chemistry, the liquid crystal display has come a long way in resolution, contrast, color, and field of view, and is still making progress. The LC devices produced include TN, STN, CF, DSTN, panel and modules which are applied to Notebook and desk computers, PDA, POS, facsimile, telephone, clock, game, home electric calculator, cellular phone, toys, internet, video, Palm TV, video phone, etc. Representing companies include Taiwan Tomy Display Technologies Co., Ltd., Magic Vision Technology Co. Ltd., Sintek Photronic Corp, Dynatron Opto-Electronics, Inc., and Shing Yih Technology Co. Limited. Chun Yun Electronics exhibited their 34" XGA Multimedia Monitor/TV and 1300-ansi lumen multimedia LCD projector. Vista Digital Technology Co. presented mobile AV/TV/DVD systems and portable VCD/DVD/Walkman computer monitor/display systems. Other display technology at the Exposition include, for example, the true color LED display and, the DMD display presented by Inwood Industries Co. etc. In terms of price, the LCD display is still the least expensive. The DMD display, by using the rotating color filters and flipping the micro-mirrors in a small panel, has achieved amazing resolution and brightness. It is amazing that the micro mirrors can be controlled so precisely and rotated so rapidly to produce the movie like display. The technology should be classified as one of the micro mechanical electrical systems (MEMS), which is a very important R&D topic today.

Perhaps the most significant items in the world market today are **fiber communication** products for LAN, WAN, and wireless communications. Examples of companies in this area at the Exposition include Foci Fiber Optic Communications, Inc. which offers a wide range of fiber optic passive components, fiber optic instruments, and fiber optic LAN/CATV/VOD network installation and system integration. Chunghwa Telecom Labs played a leading role in the R&D of fiber communication products. They manufactured and developed many optical fiber products including laser/photodiode chips and arrays, EDFA and optical amplifiers. Their new products include dense optical interface module and 1.25 Gb/s Ethernet fiber optic transceiver. The Global Communication Semiconductors (GCS), Inc. of Southern California is one of over a score of foreign companies participating in the Exposition. GCS has been delivering HBT PA, HBT digital IC's, PHEMT, Epitaxial Wafers, SAW, and Optoelectronic Devices for wireless telecommunications and fiber optics markets. GCS is looking for collaborating companies in Taiwan for further expansion of their industrial base. The CityNet produced Ethernet HomePNA for instant access LAN/WAN/PBX. The Genesis Communication Technologies, Ltd. Manufactures passive and active optic components for the global telecom, datacom, and video markets. These include fiber optic attenuators, fiber optic couplers, and a line of 20 PIN transmitter and receiver modules. The Aryxx Optoelectronics Co., Ltd produces fiber couplers, connectors, patch cords, wavelength division multiplexings, attenuators, isolators, and EDFAs. The APAC Opto Electronics Inc. fast fiber converters and a RF link module series. The fiber communication and wireless communication areas got a late start in Taiwan due to earlier government restrictions. These fields have a lot of progress to make before they can catch up with the world market. With the capabilities and experience of the Taiwan photonics industry, great progress will be expected in the next few years.

Taiwan is leading in **optic data storage** area but the production of CD-R is transferred to Mainland China for the reduction of costs. This is a general trend not only limited to photonics industry. Ritek Corporation fabricates CE-R, CD-RW, MD, MO, DVD-R, DVD-RAM/RW, and ITO glass, etc. The company emphasizes quality, service, efficiency, and environment protection in their management. Prodisc Technology Inc produces CD-R, CD-RW, DVD-

R, DVD-RW, DVD-RAM. These manufacturers made the inexpensive CDs in the market that the consumers around the world enjoy to use today.

Laser diodes and LEDs are represented in the Exposition. For example, Transverse Industries Co., Ltd manufactures Red and green laser modules. Top Tower Technology produces laser diodes of 635nm, 650nm, 780nm, 980nm, 1.3 μ m, 1.5 μ m, GaAs and InP photo diodes and yellow, green and blue LEDs. True Light Corporation featured high-speed PIN devices and components, and VCSEL Devices and components. Shawo Hwa Industrial Co. Ltd. produces red and green laser pointers and laser light batons. Link-Shine Opto-Electronics Co., Ltd. produces a variety of LED traffic lights. LightVision Technologies, Corp manufactures diode-pumped solid state lasers with high efficiency power output and low noise in a compact air-cooled package. Sinonar Corp. showed their manufacturing capability of amorphous silicon solar cells and panels and the indoor and outdoor applications of the devices.

Other **laser applications** presented at the Exposition include laser cutting systems manufactured by Laser Life Co., Titan Electro-Optics Co. Ltd., Blue Sky Tech Co., Ltd., the luminescent car dashboards manufactured by Unshun International Co., Ltd., and laser show equipment manufactured by Quarton, Inc. The standard Technology Corp manufactured an assembly of optics products including LCD/DMD Projector parts and modules, and material and equipment for semiconductor LCD/LED industry. The Sanpany Instruments Co., Ltd. supplies a variety of photonics related instruments such as sample preparation system and scanning probe microscope. Fulintec Engineering Co., Ltd., Leybold Systems GmbH, and Junsun Tech Co, Ltd presented vacuum systems, which are important for optics manufacturing. Info Tek supplies optical design automation software and engineering design services for photonics.

Due to limited time and personal knowledge, my recollection of the Exposition probably is far from complete. I apologize to the companies that I missed and would like to suggest to the readers, if interested, to purchase a book "Photonics Taipei 2000" published by PIDA for all the details. In the Exposition, I found that PIDA has published an interesting and informative periodical entitled Optolink, which facilitated photonics R&D and marketing and sales.

Now I would like to report on the recent visit tour that helped me in gaining a comprehensive understanding of the status of photonics in Taiwan. The 3-Day (July 23-25, 2000) Taiwan Visit Group on Photonics & Multimedia Fields is also hosted by PIDA and sponsored by the National Youth Commission, the National Science Council, and Ministry of Economics. During the three tightly scheduled trips, the participants have had on-site view of a few photonics companies and held interesting discussions.

The first day of the program began with an excellent introductory presentation by Dr. Jacob W. Lin, President & CEO of the PICVUE Electronics. Dr. Lin discussed his company's liquid crystal display products and his experience of coming back to work in the last 7 years after many years of successful career in Texas, USA. He told us that he was very happy in coming back to work in Taiwan. As I found out later during the visit, many of the returning entrepreneurs shared the same feeling. Taiwan today offers excellent infrastructure and great windows of opportunities for photonics industrial developers and investors. In the subsequent panel discussions led by several industrial leaders, OEM versus originality, photonics versus precision machining and other fields were discussed. Mr. Kaofeng Tsai, President of Baycom Opto-Electronics Technology, LTD, presented human-emphasized management style and the development-from-scratch success story. The conclusion is that all fields are needed including mechanical engineers that were well represented in the visit group.

One exciting advertisement was verified by Mr. Chih Pen Lin, Assistant To Chairman & CEO of Foxconn, on his company's seeking a project manager in fiber optics at an offering of 30 million NT a year! An indication on how thirsty for talents in the photonics industry of Taiwan is today.

Led by Ms. Pamela Hsiao of PIDA and her boss, Director Dr. Jonathan T. D. Wu, and Mr. Shen, we have visited 9 photonics facilities in fiber optical communications, laser diodes, light emitting diodes, compact disks (CDs), and digital video disks (DVDs) in the Hsinchu-Taoyuan-Banchiao area. These include the United Epitaxy Company, the Radiantech, the OES/ITRI, the ERSO/ITRI, the U-Tech Media Corp, the Union Optonics Corp, the Primax Electronics, the Acer Communications Multimedia, and the Raite Optoelectronics Company. I learned from the company CEOs on their management and business philosophy, the miracles in their growth and expansion, the leadership and drive in the pursuit for excellence in their specialties. I think that no doubt that these leaders are heroes of the Taiwan's modern photonics industry. Jia Yao's President Robert Chiang showed their optical fiber connected modern building and the functions of a new way of local and wide area networking in the future. Dr. Yung Sheng Liu, ITRI Fellow and Deputy General Director of the Opto-Electronics & Systems Laboratories, introduced the leadership and technology transfer of the ITRI in photonics and electronics. Mr. Steven Chang, Chairman and CEO of UTECH Media Corporation, stated that he needed to hire employees with ambition disregarding their areas of specialties. His company's 3H Principle means **H**ope, **H**appy, and **H**eart working. U-TECH 4U cornerstone means **U**nited Team, **U**nique service, **U**niversal market, and **U**nlimited achievement. A unique gift of two mugs, one as day and one as night, shows their uninterrupted working spirit. UTECH made a profit of 10 billion NT dollars in 2000! Mr. Chang and his chief officers courteously escorted the visitors to the bus to show their respect for talents. During the third day Dr. Richard Fu, President of Union Optonics Corp, gave a detailed discussion on how to use MOCVD technique to produce laser diodes and showed his 9-room laboratories via closed-loop TV. Acer showed how they led the world in computers and a variety of photonics products.

Through the visit tour of the photonics industry and the subsequent view of the Exposition, I have gained a better understanding of the photonics industry in Taiwan. My personal observations on the causes that led to the great success of photonics in Taiwan today include (1) The government agencies, including the National Science Council, the National Youth Commission, and the Ministry of Economics, have had far-sighted vision, excellent planning, and leadership. (2) The returning Chinese experts from overseas have made significant contributions. (3) The fair and fine education system has created a well-trained and hard working labor force. (4) The success of IC and computer industry has served as a backbone for photonics. (5) Consumer demands of computers and communications for networking and information exchange have created commercial opportunities.

Photonics, with its speed of light of travelling 7.5 turns/second around the world, has clearly brought the world closer together. A global village has been formed. The technology advancement is unbelievably fast and competition via corporation will make a better world tomorrow. I feel fortunate to be in the middle of the scientific and technology revolution. I think that all photonics workers in Taiwan and the rest of the world should be grateful for what we have achieved and should work even harder with love, dedication and an ideal of bringing peace, understanding, and prosperity to mankind via the link by photonics. Let us welcome with enthusiasm the dawn of the new "century of photonics"-the name first used by Dr. Peter Shih, who has diligently and intelligently promoted the photonics in Taiwan for the past two decades.

Opportunities and Challenges in Wireless Communications for the 21st Century

Scientists, engineers, entrepreneurs, angel investors, and venture capitalists are welcome to attend.

October 21, 2000

Saturday, 8:00AM- 3:00 PM

Torrance Hilton Hotel

21333 Hawthorne Boulevard

Torrance, CA 90503

310-540-0500

www.hiltontorrance.com

Registration: 8:00 AM - 8:30 AM (Pre-registration \$20 per person commitment before October 16 is required and the fee will cover the program admission, breakfast, coffee break, and lunch.)

Lunch: 12:30 PM - 1:30 PM

Program: 8:30 AM - 3:00 PM (including two sections of telecommunication professional & business networking opportunities and one panel discussion)

Partial list of program speakers:

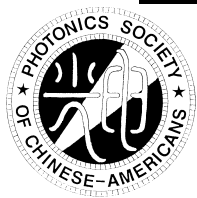
- Mr. Michael Lin and Mr. Jack Lin with Trilink
- Dr. H.C. Lee with E2O
- Dr. Frank Lee with GTRAN
- Dr. Chi Wu with Lightcross
- Dr. Y-H Zhang with Lytek
- Mr. Jim Anderson with Silicon Valley Bank
- Mr. Bob Van Buskirk with Stanford Microdevices Inc.
- Dr. Carl Kukkenan of ViaSpace
- Dr. Denny Ko of Dynafund
- Dr. Owen Wu of GCS

RSVP to Dr. Daniel Fang (tdfang@msn.com) by providing your contact information with \$20 pre-registration commitment by October 16. Program administration will collect the fee at the door.

***Opportunities and Challenges in Wireless Communications for the 21st Century
registration form***

<i>Name(English/Chinese)</i>	
<i>Position:</i>	
<i>Company:</i>	
<i>email Address:</i>	
<i>Phone numbers:</i>	
<i>(W)</i>	<i>(H)</i>
<i>(fax)</i>	<i>(cell/pager)</i>
<i>Address:</i>	
<i>number</i>	<i>Street (or PO Box)</i>
<i>city,</i>	<i>zip</i>
<i>Expertise:</i>	
<i>Interests:</i>	
<i>Comments/suggestions:</i>	
<i>Program registration: \$20</i>	
<i>Sponsor the event: \$</i>	

PSC Scholarship Committee Announcement



The Photonics Society of Chinese-Americans

Announcement

The Sixth Bor-Uei Chen Memorial Scholarship Award

by *Chun-Ching Shih*, Chair

On behalf of the Bor-Uei Chen Memorial Scholarship Committee, I am pleased to announce that the sixth scholarship will be awarded in the 2001 PSC Annual Meeting in the Bay Area, California. This year, the committee would like to move up the announcement date, so that the prospect candidates have more time to prepare their application. The Committee is now accepting nominations of qualified candidates from any **sponsoring PSC members**. You can copy the nomination form on the next page for your own use and attach any supporting document to demonstrate candidate's achievements in academics and research. Form is also available on PSC web sites: (www.psc-a.org) (www.psc-sc.org) or (www.psc-eoa.org) or send your request directly to me at **cc.shih@trw.com**. The nomination deadline is **February 28, 2001**. Any nominations received after this date will not be considered. Here are some highlights about this memorial scholarship:

1. The purpose of this scholarship is 1) to honor Dr. Bor-Uei Chen for his contributions in photonics and his services to the photonics community; 2) to recognize outstanding graduate students in the field of **optical communications** and **photonic devices**.

2. A scholarship committee, appointed by the PSC Board of Directors, is responsible for making announcements, conducting fund drive, and overseeing the selection process. The members of the Scholarship Committee include

Chun-Ching Shih (Chair)
Tingye Li
Pochi Yeh
Hua-Kuang Liu

Chinlon Lin
J.Y. Ray Chen
Bob Lin
Chi H. Lee

Hsing Kung
Arthur Chiou
Shui-Lin Chao
C. L. Tang

3. Each year, the Committee will issue a call for nomination on the October or January issue of *Photonics Link*. The committee will oversee the review process of applications and make recommendations to the PSC Board of Directors for final approval. The winner or winners will be announced on the April issue of *Photonics Link*.

4. The selection of scholarship winners will be based on the merit of candidate's research work, which must be documented by publications on technical journals or conference presentations and supported by strong recommendation from the candidate's sponsor or advisor.

5. The scholarship award consists of an award certificate and a check of \$1,000. The amount of scholarship and the number of winners may vary, and the Committee reserves the right to make any changes as necessary. The winners in past years include:

1995: Lih-Yuan Lin (UCLA)	Jerry Chen (MIT)	Yan Sun (Stanford)
1996: Li-Ping Chen (UCLA)	Yongan Wu (Stanford)	Wei-Chiao Fang (UIUC)
1997: Wenhua Lin (UMBC)		
1998: Xiaonong Shen (UCSB)	Jianhua Zhao (UCSB)	
1999: Ming Li (Rensselaer)	Alan Yuan-Chun Hsu (UIUC)	
2000: (No Recipients)		

In 2001, the Committee plans to select one or two award winners.

6. The scholarship will be awarded annually and presented at the PSC Annual Meeting. The winners will be invited to give a short presentation about his/her research. They should make every effort to attend the Annual Meeting.

7. Key dates:	October 1, 2000	Announcement on <i>Photonics Link</i> and web sites
	February 28, 2001	Deadline for receiving nomination materials
	March 21, 2001	Review by the PSC Scholarship Committee
	April 1, 2001	Announcement of winner on <i>Photonics Link</i>
	May 6, 2001	Scholarship awarded at the Annual Meeting

The Photonics Society of Chinese-Americans

Dr. Bor-Uei Chen Memorial Scholarship Award Nomination Form

(Attaching a brief resume to this form is recommended)

Full name of nominee _____

Date of birth _____ Place of birth _____

Address _____

Tel _____ Fax _____ e-mail _____

School attending _____

Department _____

Major research area _____

Degree program _____ Year expected to receive the degree _____

Thesis title (if any) _____

Thesis advisor (if applicable) _____

School of undergraduate _____

Major in undergraduate _____ Graduation year _____

Papers & Patents* _____

Honors & Awards* _____

* Attach a separate sheet if necessary

Other comment (such as special projects, outstanding research achievements, etc.)

Sponsor's name _____ Tel _____

Address _____

Sponsor's signature _____ Date _____

Return this nomination form, together with supporting information, no later than February 28, 2001,
to: Chun-Ching Shih, PSC, 1517 Via Fernandez, Palos Verdes Estates, CA 90274, USA