



*Photonics Society of Chinese-Americans*

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\* **PSC Annual Meeting on May 7, 2000** (details on pages 4 and 5)

## *President's Message*

Dear PSC members:

Our annual meeting will be held on Sunday, May 7, 2000, in Silicon Valley, a day before the CLEO 2000 Conference. The annual meeting will offer a great opportunity for our members to interact with industry leaders and each other. This year, we are fortunate to have five worldwide high-tech leaders as our speakers:

- Dr. Milton Chang, Chairman, New Focus
- Dr. Wu-Fu Chan, Chairman and CEO, Optimax
- Dr. Morris Young, Founder and CEO, American Xtal Technology
- Dr. Simon Cao, Founder and Senior Vice-President, Avanex
- Mr. Winston Fu, U.S. Venture Partners

The location of the meeting is:

### **Techmart**

**5201 Great America Parkway  
Santa Clara, CA 95054**

It is easily accessible from both San Francisco and San Jose airports through freeway 101 and only two buildings away from the light rail system. For more details about the conference program and transportation, please check the PSC web site at <http://www.psc-a.org> or pages 4 & 5 in this newsletter.

I thank the Northern California Chapter for organizing this year's conference. I am sure you will find the day to be worthwhile.

It is near the end of my term as PSC President. I would like to thank the current and past PSC officers for their help and guidance. According to the bylaws of PSC, the next President will be the current First Vice-President, Dr. Ray Chen from the Atlantic Chapter. The rest of the officers will be announced at the Annual Meeting.

As always, I welcome any suggestions that would make PSC more useful to you. I can be reached by e-mail: [blin@hplabsz.hpl.hp.com](mailto:blin@hplabsz.hpl.hp.com) or by phone: 650-857-7218 (O), 408-253-7388 (H).

See you at the Annual Conference.

Sincerely,

Bob Lin  
President of PSC

## **1999-2000 PSC Officers:**

<b>Board of Directors</b>	<b>Dr. Chi. H. Lee (Chair)</b> <b>Dr. Hsing Kung</b> <b>Dr. Shi-Kay Yao</b>	<b>(310) 405-3739</b> <b>(510) 683-5900x126</b> <b>(714) 572-6075</b>	<b>chlee@eng.umd.edu</b> <b>hkung@aol.com</b> <b>shikay@aol.com</b>
<b>President</b>	<b>Dr. Bob Lin</b>	<b>(415) 857-7218</b>	<b>blin@spica.hpl.hp.com</b>
<b>First Vice President</b>	<b>Dr. Y.J. Ray Chen</b>	<b>(410) 455-3507</b>	<b>ychen@umbc.edu</b>
<b>Second Vice President</b>	<b>Dr. Raymond Wang</b>	<b>(714) 730-6256</b>	<b>raymondwang8@compuserve.com</b>
<b>Treasurer</b>	<b>Dr. Yanhua Shih</b>	<b>(410) 455-2558</b>	<b>shih@research.umbc.edu</b>
<b>Corresponding Secretary</b>	<b>Dr. Li Yan</b>	<b>(410) 455-3558</b>	<b>liyang@research.umbc.edu</b>
<b>Recording Secretary</b>	<b>Mr. Ren-Sue Wong</b>	<b>(415) 493-6100x210</b>	<b>ren-sue_wong@agilent.com</b>

## **Special Committees:**

<b>Fellowship Committee</b>	<b>Dr. Pochi Yeh</b>	<b>(805) 893-3981</b>	<b>pochi@ece.ucsb.edu</b>
<b>Scholarship Committee</b>	<b>Dr. Chun-Ching Shih</b>	<b>(310) 814-0318</b>	<b>cc.shih@trw.com</b>
<b>Publication Committee</b>	<b>Dr. Chun-Ching Shih</b> <b>Dr. Su-Miau Wu Shih</b>	<b>(310) 814-0318</b>	<a href="mailto:cc.shih@trw.com"><u>cc.shih@trw.com</u></a>

## **PSC 2000 ANNUAL CONFERENCE**

**Time: Sunday, May 7, 2000**

**Place: Chinese-American Culture Center, 1269 Forgewood Ave., Sunnyvale, CA**

### **Conference Program**

#### **1:00 – 1:15 Introduction:**

PSC President: Dr. Bob Lin

Conference General Chair: Dr. Gordon Li

#### **1:15 PM – 3:30 PM     Session 1: How to build a successful business**

Section Chair: Hsing Kung

1:15 PM – 1:45 PM

"How to build a successful company"

Dr. Milton Chang, Chairman, New Focus

1:45 PM – 2:15 PM

"Duality of Entrepreneurs and venture Capitalists"

Mr. Winston Fu, U.S. Venture Partners

2:15 PM - 2:45 PM

"Incubator"

Dr. Wu-Fu Chan, Chairman/CEO Optimax

#### **2:45 PM - 3:15 PM     Coffee Break**

#### **3:15 PM – 4:45 PM     Session 2: Share Experience with successful entrepreneur**

Section Chair: Ray Chen

3:15 PM – 3:45 PM

"American Xtal Technology Inc."

Dr. Morris Young, Founder and CEO, AXTI

3:45 PM – 4:15 PM

"AVANEX"

Dr. Simon Cao, Founder and Sr. VP, Avanex

#### **4:15 PM – 5:30 PM     Session 3: Fellow Seminars**

Section Chair: Pochi Yeh

#### **5:30 PM – 5:45 PM**

PSC President Transfer Dr. Bob Lin / Dr. Ray Chen

Adjourn Dr. Gordon Li

# Map for PSC Annual Meeting Site

We will begin to pick up people from Reamwood Station (light rail) to the conference site from 11:30 am to 12:45 pm. Person can call 408-839-3482 for missing the time slot.

2000 年中華光電學會(PSC)年會  
 時間:(2000年5月7日中午12點報到,下午1點開始)  
 地點:1269 Forgewood, Sunnyvale. CA  
 CHINESE CULTURE CENTER (華僑文教服務中心)

## 交通

1. 從舊金山乘火車(Caltrain)到 Mountain View(山景城), see fig.1 火車站位於 Townsend St., 4 th St. and King St. 之間, 距 Moscone Conv. Cen. 五個街口, 週日二小時一班( <http://www.caltrain.com>, ph: 1-800-660-4287 )  
 Train 242 10:00 SF 啟程 11:09 到 Mountain View.  
 Train 246 12:00 SF 啟程 13:09 到 Mountain View.
2. 從 Mountain View 乘 Light Rail 輕軌電車, VTA 到 Reamwood 站, see fig. 2 ( Mountain View 的火車站和輕軌電車站在一起, 也是輕軌電車起點) ( 周日每 20 分鐘一班 Ph: 408-321-2300, <http://www.vta.org> )
3. 從 Reamwood 到會場(1269 Forgewood) 只有半英里, see fig. 3
4. 自行開車者在 HWY101 接 Lawrence Expwy North 遇 Elko 右轉再左轉接 Forgewood 約 300 公尺就到了若從 Fremont 來則走 237 出 Lawrence 接 Elko 一樣可以到.

Note: 當天 11.00 am 以後可以打電話至會場 408-839-3482 ( Emergency Only)



Fig. 3



Fig. 1

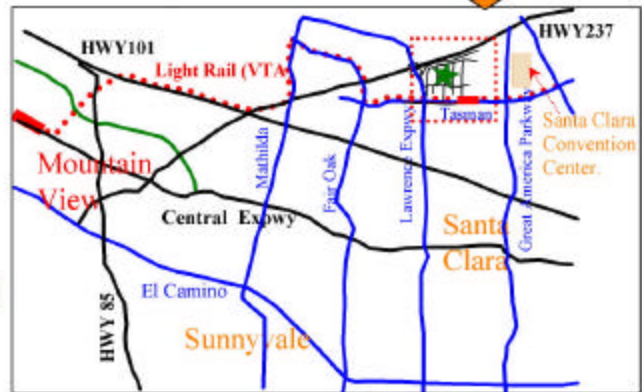


Fig. 2

# **Year 2000 PSC Fellowship Announcement**

*Pochi Yeh*

On behalf of PSC Fellowship Committee, I am pleased to announce that three outstanding members have been nominated and approved by the Board to join the grade of Fellow in PSC. They are:

**Dr. Gee-Kung Chang**

Director of Optical Internet Research, Telcordia

"For outstanding contributions in establishing advanced optical networking testbeds and demonstrating their applications to next generation optical internet."

**Dr. Ray Yung Jui Chen**

Professor of CSEE, University of Maryland BC

"For significant contribution to the development of wavelength division multiplexing (WDM) devices and technology."

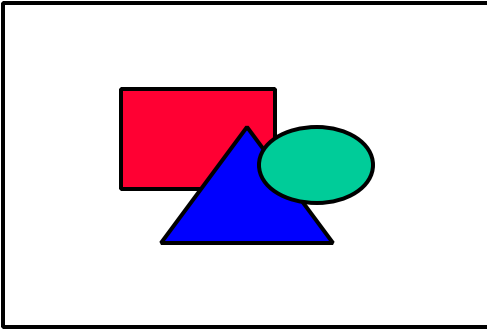
**Dr. Yung S. Liu**

Fellow and Deputy Director of EOS, ITRI, Taiwan

"Contributions to the advancement of high-average power slab lasers and nonlinear optical conversion technologies, and to the field of applying lasers to microelectronics and data communication."

Please join me to congratulate these new PSC Fellows. Their biographies are included in the following pages.

## Dr. Gee-Kung Chang



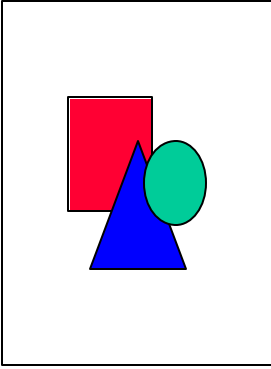
**Gee-Kung Chang** is a Telcordia Fellow, Chief Scientist, and the Director of Optical Internet Research in Applied Research of Telcordia Technologies (formerly Bellcore). He is currently the principal investigator of Internet Protocol (IP) directly over Wavelength-division-multiplexing (WDM) systems using Optical-Label Switching techniques for DARPA sponsored Next Generation Internet (NGI) project. He is also in charge of WDM network element design, system testing, integration, and interoperability of multi-vendors optical network rings for the MONET Washington DC Network field trials. He led a team to deliver a wide variety of software controlled and managed WDM optical networking crossconnects in Local exchange carrier (LEC) network testbed and provided high bandwidth real-time services and applications for the MONET New Jersey Area Network that demonstrated a national-scale reconfigurable transport WDM network. He led a team that had designed and demonstrated the first reconfigurable, multiwavelength all-optical network testbed for the Optical Networks Technology Consortium (ONTC) in 1994. The ONTC testbed was delivered for world-first live field demonstration; to San Jose at OFC'95 and subsequently to Northern Virginia for Bellcore's Customer Solution Forum in 1995.

G-K. Chang received his Ph. D. degree in Physics from the University of California, Riverside and a B. S. degree in Physics from National Tsing Hua University in Hsinchu, Taiwan. G.-K. joined Bell Laboratories as a Member of Technical Staff in Murray Hill, New Jersey in 1979. He was in charge of design and construction of high performance prototype electronic switching systems for No. 5 ESS using high voltage silicon Bipolar Integrated Circuit, Gated Diode Switch, and CMOS technologies. He has been granted fourteen patents and six more are pending in the area of optoelectronic devices and integrated circuits, telecommunication switching systems, WDM networking systems, multiwavelength optical networks, optical network security, and optical label-switched routers (OLSRs). He has co-authored in over 120 Journal and Conference papers. G-K is a co-chair of IEEE LEOS Topical Conference on Broadband Optical Networks, and the chair of Networks Committee of 2000 Optical Fiber Communications Conference (OFC'00) for Network Switching, Access, and Routing. G.-K. is a chief guest editor of a special issue on Optical Networks for IEEE Journal of Lightwave Technologies, December 2000, and the Program Chair of 2001 Photonics in Switching Conference.

## Dr. Ray Yung Jui Chen

(Sorry. Photo and biography are not available at the time of publication.)

## Dr. Yung S. Liu



### SPECIALTIES:

Optoelectronic Integration and Packaging Technology  
Optical Interconnect Technology  
Laser and Electro-optical materials and Devices

### PROFESSIONAL EXPERIENCES:

Deputy General Director, OES/ITRI (1998- )  
Program Manager, Optical Interconnect Technology Program (1994-1998)  
Program Manager, Optical Interconnect Technology (OIT), GE/Honeywell (1992-1996)  
Principal Investigator, Optoelectronics Technology Consortium (OETC),  
GE/ATT/IBM/Honeywell (1992-1995)  
Principal Scientist, Laser-based Medical Process Development, GE (1990-1992)  
Principal Scientist, Laser-based Processing Technologies for Advanced Interconnects (1987-1992)  
Project Leader, R&D in Solid State Slab-Laser Devices, Materials, and Appl. to  
Microelectronics (1972-1986)

### HONORS AND ACHIEVEMENTS:

ITRI Fellow (1999)  
OSA Fellow (1998)  
Industry Week's "50 R&D Stars to Watch" (1998)  
Chairman, Program Committee, Photonics West (1997)  
Chairman, Program Committee, Photonics China, Beijing, China (1996)  
President, Chinese Community Center of the Capital District, NY (1996-1997)  
Research Professor, RPI, Physics Dept., Troy, NY (1995-1997)  
Chairman, GE Symposium on Microelectronics and Micromechanical Systems (1995)  
Advisory Member, Graduate Committee, Dept. of Electrical & Computer Eng., Univ. of Texas (1995)  
Chairman, Symposium on "Electro-optical Devices & Applications", APS (1991)  
Organizer, Symposium on "Environmental Issues in 90's", APS (1991)  
Member, Program Committee, Optical Society of America and IEEE (1991)

Chairman, Symposium on Lasers in Biology and Medicine”, APS (1990)  
GE Publication Award (25 publications-1981, 50 publications-1989)  
Lecturer, Max-Planck Society, Munich, Germany (1989, 1992)  
Co-Chair & Member, Adv. Comm., National Sci. Council, Taiwan, ROC (Co-Chair-1982, 1986, M-1989)  
Member, APS Committee on Applications of Physics (1988-1991)  
Adjunct Professor, Dept. of Physics, SUNY, Albany, New York (1986-1992)  
GE Patent Award for filing over 20 patent applications (Silver-1986, Gold-1989)  
Member, Review Committee, New York State Sci. and Tech. Foundation (1986)  
Consultant, UN Development Program, China, PRC (1986)  
GE Managerial Award for significant contribution to laser technology and business (1984)  
GE Management Development Programs (1980, 1984, 1996)  
President, Mohawk Section, Optical Society of America (1979)  
GE Outstanding Achievement Award, Solid State slab laser technology (1977)  
Published over 70 papers and 23 patents, one book chapter and over 40 invited talks.

EDUCATION:

B.S. in physics, National Taiwan University, Taiwan, 1966  
Ph.D. Applied & Engineering Physics, Cornell University, 1972

# **Announcements from Southern California Chapter**

*Raymond Wang*

## **1. Election Results**

I will like to announce that year 2000 PSC-SC (Photonics Society of Chinese Americans - South California Chapter) officers were elected:

### **President:**

Dr. Daniel Fang, Ph.D. Electro-Optics, University of Dayton  
Intelligent Optical System

### **Directors:**

Dr. Shi-Kay Yao, Dr. Chin C Lee, Dr. Huan-Wun Yen  
Dr. Cheng-His Miao, Dr.Z.Z. Ho, Dr. Raymond Wang

### **First Vice President:**

Dr. Owen Wu, Ph.D. Physics-Chemistry in Electro-Optics, University of Illinois  
Global Communication Semiconductors, Inc

### **Second Vice President:**

Dr. Ken Cheng, Material Science in Electro-Optics, UCLA  
Simax Technologies

### **Secretary:**

Dr. Tsae-Pyae Shen, Ph.D. Physics, UC Irvine  
JPL

### **Treasure:**

Dr. Yon-Lin Kok, PhD. EE, Purdue University  
Primu Communication

I would like to thank you for all your support in the past year and please continue to support PSC's program and activities in the come years.

## **2. San Diego - SPIE 2000**

Please join us on a special technical/dinner meeting in San Diego with distinguished speakers in the conjunction with SPIE annual meeting. Detail program will be announced in the near future.

## **3. Photonics Taiwan - International Flat Panel Display Exposition**

Date: July 27 - July 30, 2000

Place: Taipei World Trade Center, Taiwan

It will cover the topics of frontier science and technologies, including the topics on:

- . FPD - LCD, LED, FED, EL, VFD, PDP, TN, STN, TFT
- . Optoelectronic material & Components
- . Optical Storage Devices
- . Optical Fiber Communication Products
- . Laser and Application
- . Optical Instruments & Equipment
- . Optical I/O Devices

and others

For more information, please check web page at PSC-SC.org, or [www.pida.org.tw](http://www.pida.org.tw) or e-mail to [pamela@mail.pida.org.tw](mailto:pamela@mail.pida.org.tw) or e-mail to me at [raymondwang8@compuserve.com](mailto:raymondwang8@compuserve.com).

#### **4. World Congress on Information Technology - WCIT XII Taipei 2000**

Date: June 11 -14 2000

Place: Taipei International Convention Center, Taipei, Taiwan.

Subject:

6/12: Impact of Information Technology on World Economics

6/13: Emerging IT Strategies, Business Models and Application

6/14: IT For A Better World/ Asia Pacific Forum.

For more information please contact [WCIT2000@mail.cisanet.org.tw](mailto:WCIT2000@mail.cisanet.org.tw),

or [www.WorldCongress2000.org](http://www.WorldCongress2000.org), or e-mail to me at [raymondwang8@compuserve.com](mailto:raymondwang8@compuserve.com)

#### **5. Investment and Job Opportunity in Taiwan**

Object: If you like to go back to Taiwan to work there or start a high tech company. There is a visiting trip to Taiwan on May 17 - 19 to visit the high-tech company in Taiwan.

Field: Precision Mechanics, Electronic and Information technology, Biotechnology, Chemical Engineering etc.

Fee: free.

For more information, please contact me at [raymondwang8@compuserve.com](mailto:raymondwang8@compuserve.com).

# **Job Opportunities in Southern California**

*Raymond Wang*

There is a company in GARDEN GROVE, looking for the following candidates. If you are interesting please contact me at raymondwang8@compuserve.com.

## **Development Design Engineer**

Responsible for design & development of DWDM modules, opto-electronic packaging & switches. Experience in integrating, prototyping & characterizing fiberoptic components and subsystems. BS/MS Physics or Optics with 5-10 years practice experience.

## **Fiberoptics/Optics Test Technician**

Responsible for conducting & setting up manual & automated tests of fiberoptic & optical devices. Ability to analyze data against performance, trouble shoot test set up & improve test method as required. Must be able to document test procedures and data for repeatability and traceability. 2 years experience in fiberoptics, optics or electronics testing.

## **Mechanical Engineer**

Responsible for opto-mechanical device & system packaging design with development of mounting, alignment and integration processes including tooling design, alignment & assembly systems as well as manufacturing process development. BSME/MSME with 3-5 years practical experience.

## **Optical Designers**

Responsible for the design, development & tolerancing of complex optical and fiber-based devices/systems using diffractive optics, gaussian optics & guided wave components. BS/MS in applied Optics or Physics with 3-5 years experience in designing optical systems required.

## **Optical Development Engineer**

Responsible for transitioning opto-mechanical designs from prototypes to manufacturable products. Experience in measurements, assembly procedures, adhesives & alignment of optical elements requires. Experience with quality systems & production management systems a PLUS. BS/MS in optical engineering, physics or related field.

## **Optical Development Manager**

Responsible for leading the team responsible for transitioning designs from research into manufacturing. Significant experience in designing & prototyping precision optical systems Required. MS in Applied Physics, Optical Engineering or Mechanical Engineering with significant experience in designing and prototyping precision optical systems REQUIRED.

## **Optical Manufacturing Engineer**

Responsible for development & manufacturing support for optical telecommunications products, including the ongoing development/enhancement of opto-mechanical products as well as the development & implementation of manufacturing processes & test equipment. BS/MS Optical Engineering, Physics with 3-5 years related manufacturing experience required.

### **Optical Technician**

Three to five years Experience working with the measurement, assembly or testing of optical assemblies, understanding optical measurement systems such as interferometers & spectrophotometers a MUST. Experience with fiberoptic measurement systems & aligning complex optical assemblies a PLUS. Position includes working with optical and micro-optic systems.

### **Product Development Engineer**

Responsible for developing fiberoptic components & products such as DWDM modules, hybrid micro-optic devices & switches. Requires designing, packaging, prototyping and characterizing optical components and subsystems. Experience in product development, procedure definition and manufacturing process implementation REQUIRED. BS/MS in Physics with 2-5 years experience developing micro-optic devices.

### **Product Development Technician**

Responsible for the product prototype build, assembly, alignment and test using product specifications & engineering instructions. Requires working with engineers & scientists to develop & execute experimental plans, develop critical processes, troubleshoot and solve technical obstacles, verify test stations and methods and document results. Associate of Science in Physics or related science with 2 years experience in developing opto-mechanical or micro-optic devices.

## **Faculty Position in Taiwan**

*Hon-Fai Yau*

National Central University: The Institute of Optical Sciences at National Central University, Taiwan, R.O.C. intends to make a faculty appointment in Electro-optics. Primarily, we would like to have an assistant professor. However applicants for associate or full professor are welcome. Applicants will be expected to teach courses in MS, Ph.D. level and supervise Ms and Ph.D. students research. These appointments are supposed to start on August 1st of this year. Applicants should send curriculum vitae, bibliography, a brief statement of research interests, and three letters of recommendation to Professor YAU Hon-Fai, Director, Institute of Optical Sciences, National Central University, Chung-lie., Taiwan 320, R.O.C. To receive full consideration, materials should be received by April, 10, 2000.