

Chinese Institute of Engineers/U<u>SA</u> San Francisco Bay Area Chapter

Infrastructure for a Smart World

和

RY.

Feb • 7 • 2015 DoubleTree Hotel San Jose 2050 Gateway Place, San Jose, California 95110

12

Since 191

# CITS Group is proud to support

### CIE/USA

Sharing our upward-looking vision of a Brighter Tomorrow



### 36<sup>th</sup> CIE/USA Annual Conference Program *"Infrastructure for a Smart World"*

trastructure for a Smart Wor

"智能物聯 · 智慧生活"

Saturday, February 7, 2015 DoubleTree Hotel San Jose 2050 Gateway Place, San Jose, CA 95110

- 1:00PM Seminar Registration
- 1:45PM Opening Ceremony
- 2:00PM Technical Seminars

Explore the Future Technologies 探索撼動未來的新興科技

- 2:00PM-2:50PM "DNA Microarrays Current Technology and Clinical Applications", by Sunil Pandit, Director, Clinical Science, Affymetrix
- 2:50PM-3:40PM "The Design and Use Cases of a Graphics Processing Unit Designed for Ray Tracing", by Luke Peterson, Director of Research & Strategy, Imagination Technologies
- 3:40PM-3:50PM Break
- 3:50PM-4:40PM "How Electronics will Drive the Automobile of the Future... and Shape Our Lives", by Michael Hendricks, Product Line Manager, Automotive, Altera Corp
- 4:40PM-5:30PM "The Shift to Software-Defined Communications -Business Voice, Video, & Collaboration on the Cloud", by Nick Chong, Head of Product Marketing, Zoom Video Communications
- 5:15 PM Banquet Registration
- 6:00 PM Dinner Banquet
- 6:45 PM CIE/USA-SF General Business and Announcements
- 7:15 PM Keynote Speech

Mr. Kevin Lo, General Manager of Google Fiber

- 8:00 PM Silicon Valley Entrepreneur of the Year Awards Mr. Changming Liu (劉昌明), Aerohive Networks, Inc.
- 8:15 PM Technology and Humanity Award Ms. Joyce Hsu (沈悦)
- 8:30 PM High School Student Scholarship Awards
- 9:00 PM Entertainment
- 9:30 PM Prize Drawing



### Remarks from the Chairman Dr. David Fong

A group of visionary engineers of Chinese decent founded the Chinese Institute of Engineers/ USA 98 years ago in New York to advance the knowledge in engineering, and to foster the fellowship among the engineers. Today this vision continues. CIE/USA San Francisco Bay Area Chapter is proud to carry the torch passed on by our forerunners in the past century.

Innovation and advancement of knowledge may have their moments of flash inspiration, but most of the time they require arduous work. On this long road to technological fruition, support, camaraderie and encouragement are always needed. CIE's network of engineers and entrepreneurs help connect the resources to where they are needed. I personally have on numerous occasions found expertise that was wanted for a specific project through the vast network connections in CIE.

CIE throughout the years has advocated the making of a "whole" engineer, an engineer who not only is proficient in one's own profession, but also has broad knowledge in arts, culture, history, and social sciences. This broad-based knowledge and the appreciation of arts often inspires a solution or innovation that is of a higher caliber.

Today we talk about technologies like Cloud Computing and Internet of Things as the latest innovations. Actually these technologies are rooted in the past as well as in multiple disciplines. MIT professor Vannevar Bush wrote about his Memex machine in 1945, laying out his vision of what we now called the PC, the hypertext, the mouse, and even the Wikipedia. IBM in the 1960s pioneered the virtual machine operating system, which became one of the foundations for cloud computing. Apple Computer combines technology with fine design. All these are examples of great solutions that are based on more than engineering.

The theme of this conference is Infrastructure for a Smart World. CIE has always been, and will continue to be, part of the fabrics for this forward-looking infrastructure.



### Remarks from the President Dr. Chi-Min Chu

On behalf of Chinese Institute of Engineers U.S.A., San Francisco Bay Area Chapter (CIE/ USA-SF), I would like to welcome you to our 2015 Annual Conference. With your continuous support, we have successfully brought exciting technical and humanities programs to enrich our communities. Under the Chinese Institute of Engineers U.S.A., found in 1917, the CIE/ USA-SF was established in 1979 to promote technological advancement and networking, the well-being of the Chinese-American engineering community and the engineering community, and the engineering and industrial collaborations among U.S., China and Taiwan. We will continue to pursue these missions through a sound organization structure and well planned

activities. I would like to express my most sincere appreciation for the dedication and commitment of our chapter officers, Dr. TC Yang, Vice President, Dr. Yazhou Liu, Secretary, Dr. Simon Ma, Treasure, Board members, Group Officers and all volunteers. Through teamwork and collaboration with other CIE/USA chapters and the fellow Chinese engineering organizations in the bay area, we are proud to continuous contribution to our members and engineering communities. The following are a few highlights of the activities in 2014 - 2015.

- 2014 Asian American Engineers of the Year Award, Chaired by Dr. Larry Wang
- Chinese Medicine Classes I and II, 8-class series, taught by Dr. Andy Lee
- CIE-CASPA Mind and Energy Seminar, given by Dr. Lou and Dr. Lee
- Co-organize 2014 USA-Taiwan Biomedical Engineering Forum and 2014 HiRecruit
  - "2014 Modern Engineering Technology Symposium: Review and Report" by Dr. William Kao
- Numerous technical seminars on Clean Tech, EPMC, EECS, and Internet Technology

We are looking forward to your continuous support and another fruitful year in serving the engineering communities.

#### 中國工程師學會年會 • 2015)

### Banquet Keynote Speaker Mr. Kevin Lo Google Fiber



Kevin Lo is the General Manager of Google Fiber. Kevin runs the dayto-day operations of Google Fiber, Google's gigabit fiber-to-the-home

network, and leads WiFi initiatives such as Google's partnership to provide WiFi in U.S. Starbucks stores.

Before joining Google, Kevin was the COO of M2Z Networks, a wireless service provider. He also served as the CFO and COO of Navisite Inc where he led the successful turnaround of the publicly traded telecom services company. Kevin was also the founder and CEO of two software companies, both of which were acquired in the 2000s.

Prior to that, Kevin was a strategy consultant at Bain & Co and got his start in software programming as a research assistant at the Jet Propulsion Laboratory. Kevin received his AB from Harvard University where he was a Harvard National Scholar.

When Kevin's not working at Google headquarters in Mountain View, CA (or traveling around to work in Google Fiber cities), you can find him training for a triathlon, reading to his kids or working with non-profit organizations focused on implementing technology in education.

### From the Conference Chair Dr. Tien-Chun Yang (楊天駿博士)

Welcome to the 2015 CIE/USA-SF Annual Conference! It is a great honor to invite Mr. Kevin Lo, General Manager of Google Fiber, as our keynote speaker this year. Mr. Lo runs the day-to-day operations of Google Fiber, Google's gigabit fiber-to-the-home network, and leads various Google WiFi initiatives.



The theme of this year's conference is "Infrastructure for a Smart World". As smart devices, cars, homes, and cities evolve in a fast speed and impact everyone's daily life in almost every corner of the globe, we orchestrated our afternoon technical session with emerging technologies which are impacting our life in the near future. I hope you enjoy the afternoon technical presentation, when you will have a chance to hear from the experts from the leading companies. If you plan to participate in the dinner banquet, not only you shall enjoy the delightful food and great entertainment, you will also be able to meet the Technology and Humanity award winner, Mrs. Joyce Hsu and the Silicon Valley Entrepreneur of the Year Award winners, Mr. Changming Liu. We are extremely honored to have this opportunity to recognize their individual achievements and their impact on our engineering society.

I would like to personally thank all the dedicated CIE/USA-SF Board of Directors, group officers, and the volunteers. Without their help, this conference would not have been possible. Equal appreciation goes to our conference sponsors, and CIE alliance organizations for their financial and moral support. Hope you all enjoy this year's conference.



### 2015 CIE/USA-SF

Silicon Valley Entrepreneur of the Year Award Mr. Changming Liu (劉昌明) Co-founder, CTO and board director of Aerohive Networks, Inc.

Changming Liu is the co-founder of Aerohive Networks, an innovative enterprise mobility company. Aerohive was founded in 2006 and went public at New York Stock Exchange in 2014. He has served as Chief Technology Officer since January 2007 and has been a board member since March 2006. He previously served as CEO from March 2006 to February 2007. Prior to founding Aerohive, Mr. Liu was a Distinguished

Engineer at Juniper Networks, which he joined following its acquisition of NetScreen Technologies in April 2004. Previously, Mr. Liu held other key positions with Nortel Networks and Vistar Telecommunications. Mr. Liu is the author of more than ten networking patents. Mr. Liu holds a B.Sc. in Computer Science from Tsinghua University in Beijing, China and an M.S. in Computer and Electrical Engineering from Queen's University, Ontario, Canada. Mr. Liu was born in Jiangsu, China.

As a board member and Chief Technology Officer, Changming Liu, is one of the successful entrepreneurs, an immigrant from Mainland China. Widely considered as technology visionary, he co-founded Aerohive Networks, Inc. in 2006 when Wi-Fi was still nascent. With his vision of ubiquitous, secure and high speed wireless access which has become reality today, he brought in fundamental architectural shift into the wireless industry as how enterprises deploy and manage their wireless networks. With the focus of its enterprise customers, Aerohive has enjoyed a tremendous growth starting from 2009 after financial crisis was over. It was recognized as the 5th fastest growing technology company in North America by Deloitte Technology Fast 500. Aerohive went public in NYSE in 2014, after exactly 8 years since its inception.

Mr. Liu has held a number of significant positions within Aerohive since he co-founded the Company. He was the founding CEO for the initial starting year when he successfully raised the first round of capital, built a strong R&D team, and invented revolutionary technology, which benefits tens of thousands of customers as of today. As a CTO, his strategic thinking and direction, product leadership, endless passion have contributed greatly to Aerohive's fast rise to become one of the top wireless companies in the world.

Besides his daily job at Aerohive, Mr. Liu is also an active angel investor and advisor for other startup companies. He enjoys sharing his experience with younger generation of entrepreneurs, helping them with business plan development, fund raising, technology and product direction setting as well as general operations. He is an advisor of several angel investment groups. He has a huge sense of achievement when seeing other entrepreneurs to become very successful. Several of his early investments have successful exit in last two years while he is actively supporting the recent ones.

Prior to founding Aerohive, Mr. Liu was a Distinguished Engineer at Juniper Networks, which he joined following its acquisition of NetScreen Technologies in April 2004. As an early employee and a key architect, with his technology vision and skills he helped shape its product direction and development of its security products. That helped Netscreen become one of the successful networking company founded by Chinese engineers from Mainland China. It went IPO within 4 years and was acquired by Juniper two years later with \$4.4B.

Previously, Mr. Liu held other key positions with Nortel Networks. Before moving to United States, he founded Newwave Computel Solutions in Canada and worked there for several years. Mr. Liu is the author of more than dozen patents spanning from data networking, security and wireless. Mr. Liu holds a B.Sc. in Computer Science from Tsinghua University in Beijing and an M.S. in Computer and Electrical Engineering from Queen's University, Ontario, Canada.

### CIE/USA-SF Technology and Humanity Award Ms. Joyce Hsu (沈悦)

Born in China, Joyce grew up in Hong Kong and Taiwan. After graduating from the National Taiwan University, she came to California in 1965 to pursue her graduate studies in biochemistry at the California Institute of Technology. Subsequent to that she worked for 11 years at research labs at UC Berkeley and Stanford University. She is married to Ta-lin Hsu and they have three children.



In 1974 she founded the South Bay Chinese School, which later became Silicon Valley Chinese School (砂谷中文學校), her first involvement with public services. Later she served on the board of the Cross-cultural Community Services Center (博愛文化服務中心), American Cancer Society's California Chinese Unit, San Jose Repertory Theatre and more recently Asian Art Museum in S.F. She now serves on the advisory board of the New Hope Chinese Cancer Care Foundation (新希望 華人癌症關懷基金會), www.newhopecancer.org.

After being diagnosed and treated for breast cancer in 1996, Joyce became actively involved with the work of supporting new patients and those who suffer the recurrence of the disease, and in enhancing cancer awareness among the Chinese communities both here and abroad. She is currently the honorary chair of Global Chinese Breast Cancer Organizations Alliance, www. gcbcoa.org.

Though educated as a biochemist, Joyce has always harbored a strong interest in live theatre. In 1996, facing cancer and chemo therapy, her dream of being a playwright had suddenly added on a great deal of urgency. In fact, her first work, "誰是贏家?", was written and produced that very same year. It was soon followed by "今生有約", "西施與夫差", "戀愛一籬筐", "陰錯陽差", "換個老婆太麻煩", "領帶 vs. 高跟鞋". In 2011, on the 100th anniversary of the establishment of the Republic of China, her historical drama "飛越世紀" showcased in San Jose. All her original works were written in Chinese and premiered in California. Four were later adopted by professional theater groups in Shanghai and taken on tour in many other cities. Her play "西施與夫差" was adapted and transformed into a musical and performed at the Shanghai International Arts Festival in 2001.

In addition, she drew and published two cartoon books, "Laugh Along the Way" (笑果奇佳) and "The Best Medicine" (特笑藥), both as part of her effort in offering a humorous perspective on life's serious medical situations. Tapping into her script writing skills, she also created numerous light comedy skits for cancer educational purposes. These and others are all collected in her website: www.joycehsu.us.



### Afternoon Session Chair/Moderator Mr. Simon Ma

Simon Ma has been a volunteer of CIE-SF for more than 10 years. He used to be the chair of EECS Group of CIE-SF and currently is a member of the Board of Directors and the Treasure of CIE-SF.

Mr. Ma is the Director of RF technology in Imagination Technology. He worked in communication industry for more than 20 years. Mr. Ma worked

for ITRI, TSMC and then several startup companies in Silicon Valley. For these companies, he built and leaded different Analog/RF IC design teams to develop RF chips like Bluetooth, WiFi (802.11), FM system, and UWB (Ultra-Wide-Band) from 0.25um to 40nm process. Some of these design teams are multisite and crossed the Pacific Ocean. He is a pioneer to manager multisite hardware RD team with internet tools. Mr. Ma has got 20 US patents. He is a former technical chair and secretary of IEEE Communications Society SCV chapter, a former board director of NATEA, a current BOD member of CASPA.



### Master of Ceremony Christie Wang, Attorney, Educator, J.D., M. Ed.

Christie Wang earned a B.A. English from Sun Yat-Sen University, Guangzhou, China, a Master of Education from Boston University and a J.D. from Northwestern School of Law. At Northwestern, she served as the first Chi-

nese Editor-in-Chief, Northwestern Journal of International Law and Business, supervising more than sixty journal members and editors. Under her leadership, the Journal co-sponsored the biggest International Taxation Annual Conference in the country. Christie is currently CEO of Unisource Inc., a company helping bring in US innovations into the Chinese market. She was an In-house Counsel at Hewlett Packard Company based in Palo Alto, CA where she was exposed to various areas of law. Prior to that, Christie summered at O'Melveny & Meyers, LLP, Palo Alto office, and at K&L Gates, LLP, Seattle office as the receiver of K&L Gates Diversity Fellowship. While in Silicon Valley, Christie gave a series of legal seminars focusing on start-up company business and legal issues as community service. In college, Christie was a senior instructor at New Oriental Education and Technology Group, the largest educational company in China. Later, she co-founded and managed a private high school licensed by Ontario Ministry of Education, Toronto, Canada. Born and raised in China and having immigrated to Canada and U.S., Christie speaks English, Mandarin, and Cantonese. Christie has been a bilingual MC/hostess for various conferences and expositions, and performed.

### 2015 CIE Annual Conference Afternoon Technical Program

Theme: Explore the Future Technologies

探索撼動未來的新興科技

#### **Dr. Sunil Pandit Director, Clinical Science at Affymetrix**

#### Talk Title: DNA Microarrays **Current Technology and Clinical Applications**

Abstract: DNA microarrays or gene-chips has revolutionized the field of Genomics allowing analysis of thousands of genes simultaneously in a single experiment. It is a powerful technology that was able to address many biological questions that were not

approachable previously. Affymetrix, Inc. is a pioneer and a world leader in microarray technology and microarrays have been utilized extensively for gene expression analysis, mutation analysis and to detect copy number variations (CNVs). Since the sequencing of the Human genome in 2003, the DNA sequencing technology has rapidly evolved and the cost of sequencing has gone down exponentially. Next Generation Sequencing (NGS) methods have facilitated rapid sequencing and analysis of many organisms. The access to whole genome DNA sequence information for microorganisms, plants, and animals have further enabled rapid design of DNA microarrays and analysis of entire genomes for any species including Humans. In this presentation, the speaker will provide an overview of the current microarray platform technology and will discuss its clinical applications.

Biography: Sunil D. Pandit, Ph.D., recently assumed the position of Director of Science at Affymetrix, Inc. Dr. Pandit was a Senior Manager in the Next-generation diagnostics business at Siemens Healthcare Diagnostics and has 10+ vrs of experience in diagnostics industry. At Siemens, he was responsible for research and early development activities, including efforts for novel assay and technology development for companion diagnostics and their transfer to IVD development or as Laboratory Developed Tests (LDTs). Previously, he has held positions of increasing responsibility in public and private sector at National Cancer Institute (NCI), National Heart Lung and Blood Institute (NHLBI) of the National Institutes of Health (NIH), and as a CLIA lab Director at Vircolabs, Inc (JNJ). Dr. Pandit has extensive experience in the fields of Genomics, Molecular Biology, Molecular Imaging and Cancer Biology. He received his Ph.D. in Biochemistry and Molecular Biology from State University of New York (SUNY) at Stony Brook, New York, and completed his postdoctoral research in Human genetics and Genomics from the Washington University School of Medicine, St. Louis.

### Mr. Luke Peterson **Director of Research & Strategy, Imagination Technologies**

#### Talk Title: The Design and Use Cases of a Graphics Processing Unit Designed for Ray Tracing

Abstract: As Graphics Processing Units (GPUs) have evolved from dedicated graphics processors with limited flexibility into versatile and efficient stream processors, the use cases have exploded in number and variety and today include applications from bioinformatics to simulating the weather. In this talk, we will explore a further step in this evolution: the

addition of dedicated hardware to enable algorithms that were previously too inefficient for use in any but the most specialized markets. The poster child for this advancement is ray tracing. For 3 decades, ray tracing has been the gold standard for offline computer graphics and Hollywood special effects. Ray tracing works by modeling the physics behind light, starting at a light source, bouncing through an environment, and ultimately finding its way to a virtual camera or eye. For this reason, it is capable of recreating all of the subtle details that make the difference between a scene that looks like a video game and a scene that looks like real life. Unfortunately the computational cost of ray tracing has kept it confined to the data center. When these next generation GPUs become mainstream in phones and tablets, we will be getting close to the future where interactive 3D content that indistinguishable from movies.

Biography: Luke Peterson is the Director of Ray Tracing R&D at Imagination Technologies, one of the world's top three silicon IP companies, providing the key processing blocks needed to create the SoCs (Systems on Chips) that power all mobile, consumer and embedded electronics. Luke joined Imagination in 2010 with the acquisition of Caustic Graphics Inc., a company he founded along with several other engineers from Apple, to build the next generation GPU.









### Mr. Michael Hendricks Product Line Manager, Automotive, Altera Corp

### Talk Title: How Electronics will Drive the Automobileof the Future... and Shape Our Lives

**Abstract:** The automobile is the second most expensive item an individual will purchase after their home, and it is increasingly comprised of electronic content. In this talk, we will examine the rise of electronics in the vehicle and how this trend is impacting the way cars are designed, purchased and used. The Mercedes Benz S-Class has greater than 100

million lines of software code and about 20 million lines of code in its navigation systems alone. This compares to only about 1.7 million lines of code in the F-22 Raptor and about 6.5 million lines of code in the new Boeing 787 Dreamliner. In Hollywood they say "Lights, camera, action!" In the automotive world they may soon be saying "Camera, radar, LIDAR, GPS, drive!" Audi, BMW, Tesla, Mercedes-Benz, and Nissan have all gone on record predicting a driverless car in their showrooms by 2020. We will look behind the scenes to see how these sensors and powerful electronic computing "brains" are replacing human eyes in next-generation automated-drive vehicles, and how services such as Uber and Google's driverless car may impact if or how we buy cars in the future. We will also explore how trends in automotive, such as the electric vehicle, are impacting adjacent industries.

**Biography:** Michael Hendricks is Automotive Product Line Manager at Altera Corporation responsible for Altera's global automotive business and strategy. Altera is a leading supplier of programmable semiconductors and related products that enable electronic systems companies to rapidly and cost-effectively innovate and differentiate in their markets. Altera offers FPGAs, SoCs with embedded processor systems, and CPLDs in combination with software tools, intellectual property, embedded processors and customer support to provide high-value programmable solutions to over 12,000 customers worldwide.

Prior to joining Altera in 2012, Michael held various positions in product management and product marketing at Texas Instruments and National Semiconductor. Michael earned his BSEE from the University of California at Santa Cruz with highest honors.



### Mr. Nick Chong Head of Product Marketing at Zoom Video Communications

#### Talk Title: The Shift to Software-Defined Communications Business Voice, Video, & Collaboration on the Cloud

**Abstract:** Business communication tools are rapidly evolving from traditional hardware systems to software-defined cloud solutions. There are architectural, system, and standards considerations when creating a massively scalable cloud platform for voice, video, and collaboration. The general shift to software-defined cloud solutions have a significant

impact to the end-user, solution provider, and hardware manufacturer. **Biography:** Nick Chong is responsible for product strategy, thought leadership and global market evangelism as Head of Product Marketing at Zoom. He has an extensive background in technology, market development, sales execution and pursuit of customer satisfaction. Prior to Zoom, Nick was the founder of the first Emerging Technology business unit at Cisco Systems in India. He led business incubation, technology acquisition and go-to-market strategy. Nick also held senior leadership roles as Director of Product Management at Perfigo (acquired by Cisco) and Director of Technical Support at Intruvert (acquired by McAfee). Both network security solutions (NAC and IPS) attained the #1 market leadership positions and evolved to become critical stakes of the \$3Bn network security market. Nick holds a Master of Business Administration from Santa Clara University and Bachelor's in Computer Engineering from Kansas State University.

### **2015 CIE Annual Conference Scholarship Awards**



Audrey Cheng Parent: Liqiang Cheng Gunn High School, Grade 11

- Member of Palo Alto Youth Council
- 2014 CTY Cogito Research Award
- 1st Place in Chemistry: 2014 Synopsys Championship
- National Top 50 Finalists, 2014 Siemens "We Can Change the World" Challenge
- Second Place Winner of Nanobiotechnology, 2014 Teen Biotech Challenge
- National top 10 Finalist Placement, 2014 TEAMS Competition
- ACS Chemistry Club: Founder and President
- Gunn High Science Bow Team: Captain
- · Gunn High Science Olympiad Team: Vice-President



#### Eric Chiu

Parent: Lee Chiu Lynbrook High School, Grade 12

- Developer & Artist, Mobile Arcade Game: Sauce Me
- Board Director, iCode Studios Nonprofit Organization
- Secretary, Treasurer, Design It Nonprofit Organization
- Engineer, Boston Leadership Institute: Robosailing
- Computer Programmer, iServiceSoft Corporation
- Artist, Member, Participant, "Studio of Arts"
- Treasurer, Lynbrook High School's ArtReach
- Volunteer, Villa Fontana Retirement Community
- Member, Lynbrook's Japanese National Honor Society
- Libero (Defense Specialist), Volleyball JV (9-10), V (11-12)
- Beginner/Intermediate Sailor, Oceanic Sailing



### Derek Chu (居琨瑜)

#### Parent: Lee Chu

Mission San Jose High School, grade 12

- Community Service (400+ hours)
- Wisdom Chinese School- TA
- Elementary Summer Academy (ESA)-TA
- Fremont Main Library Teen Shelver
- Can Food Drive for Key Club
- SF AIDS Walk for Interact Club
- Model United Nations Club, Publicity Officer
- Relay for Life Team Captain
- Above and Beyond Volunteer Award for ESA
- Link Crew Leader (2 Years)

### 2015 CIE Annual Conference Scholarship Awards



#### **Andrew Jiang**

Parent: Hunt Jiang Saratoga High School, grade 11

- Sports Section Editor of Saratoga Falcon, 14-15
- Circle Award, 2104
- Peacemaker Award, 2014
- Golden Crown , 2014
- USA Water Polo Academic All-American Outstanding, 2014
- Member of the Saratoga Robotics, 2012-2014
- Member of Team HBV, 2013-2014
- Volunteer service as a teacher assistant for Redwood Middle School Summer Program 2014



#### Angie Kang

Father: Gang Kang

Los Gatos High School, grade 11

- Congressional Art Award (2014)
- Oil Painters of America Associate Member 2014
- Honor Scholar (2012, 2013, 2014)
- Language Award of Distinction in Los Gatos High School (French) (2013)
- Gatos High School Artist Spotlight (SAAS) (2013, 2014)
- Regional Concurs Bronze Medalist for French ((2011, 2012)
- Two paintings at an art auction for charity (\$130, \$300) (2014)
- Instruct children in music and art Xi'an, China (2014)



### Daniel Lam

Parent: Estella Pok American High School, Grade 12

- Language Connection Club Cofounder
- Varsity Captain of American High School Water Polo Team
- · Captain of American High School Swimming Team
- Health Occupations Students of America
- · Class of 2015 Council Fundraising Commissioner
- Paid Swimming Coach at Calphin Aquatics
- Ro Khanna Congressman Political Internship
- Geometry and Algebra 2 Volunteer Tutor



### Yun Ling Ng

Parent: Song Seng Ng

Dougherty Valley High School, grade 12

- California Scholarship Federation Member since 9th grade
- National Honor Society Member (11th, 12th)
- School library volunteer school 500+ hrs since freshmen year
- Open Hearts Kitchen Volunteer
- Piano Teacher
- Concert Band Flute Player

### <u>Acknowledgement</u>

CIE/USA-SF thanks the following organizations for their supports of CIE-SF's activities

• ALTERA

- Areohive Networks
- APAPA
- Central Computers
- CITS
- China Airlines
- EVA Air
- Hong Kong Economic and Trade Office
- Hsinchu Science Park
- Huawei Technologies
- Imagination Technologies
- ITRI International
- Masterlife Financial Group
- MediaTek
- New York Life
- Optovue
- Schneider Electric
- Taiwan Trade Center
- TECO- Science & Technology Division
- TSMC
- Young Qi
- Zoom Video Communications

# CIE/USA San Francisco Bay Area Chapter 2014 Organization

President: Chi-Min Chu, Vice President: T C Yang, Secretary: Yazhou Liu Treasurer: Simon Ma, Web Master: Yingbin Wang, PR Officer: Barry Lin Fund Raising: Su-Syin Chou, Retained CPA: Ying Wang, Communication: David Fong

### **Board of Directors**

David Fong (Chairman), Su-Syin Chou, Chi-Min Chu, David Fong, Andrew Fang, Frederick Hsia, Michael Hsieh, William Kao, An-Yu Kuo, Patrick Lam, Barry Lin, Tony Liu, Ya-Zhou Liu, Simon Ma, Larry Wang, Wen Wang, Tien-Chun Yang, John Xie, Richard Yau, Xia Zhang





### Highlights of CIE/USA-SF 2014-2015 Activities

Asian American Engineer of the Year Award





Short Courses on Chinese Medicine

Technical Seminar





Briefing of 2014 METS

Hiking



# Altera Gives You Breakthrough Automotive Computing Performance

Accelerate your ADAS, Infotainment and EV / Powertrain designs with Altera programmable logic. Our Cyclone and MAX FPGA families deliver the results today's automotive designers need. Altera PLDs push processing power and efficiency!

Innovate Your Design with Altera www.altera.com/automotive





Yvonne Yao Lic. 0F49396

### MDRT COT&TOT 2011-2015





### Masterlife Financial Group, Inc.

- \* 401K Rollover
- \* Tax Free Retirement Planning
- \* Advanced Education Funding
- Wealth Transferring & Estate Planning

1-888-835-0698

www.masterlifefinancial.com





### CIE ATTENDEES GET 1 MONTH OF ZOOM PRO FREE

Meet and Screen Share with up to 25 Attendees on Any Device

### Visit https://zoom.us/buy?plan=pro

Apply coupon code **CIE2015** to Monthly Plan Offer Expires 3/31/15

### CLOUD VIDEO CONFERENCING + ONLINE MEETINGS + GROUP MESSAGING

### zoom



,舊金山台灣貿易中心 Taiwan Trade Center, San Francisco 5201 Great America Parkway, Suite 306, Santa Clara, CA 95054 Tel: (408) 988-5018 • Fax: (408) 988-5029 • E-mail: sf@taitra.org.tw

Ad by: BOFT



All types of wood & bamboo flooring.

Directly imported from Chinese manufacturers.

Wholesale and retail welcome.

Large show room. Wide selection of accessories.

AVANTI Exclusive Distributor



**2514 Channing Ave.S.J.** (101 Freeway, Near SJ Airport, Trimble Exit, First Right at Seaboard/76 Gas Station, Right on Channing, After Burger King)



讓北加州最好的中醫團隊為您的健康把關 李宗恩中醫師 王人慶中醫師 張惠琴中醫師 經方大師倪海廈學術傳人 專長:過敏 濕疹 疼痛緩解 專長:失眠 暈眩頭痛 美容

陽氣診所

youngQi

2905 Stender Way #82, Santa Clara, CA 95054 www.youngQi.com 650-917-2355

## 華航擁抱彩繪機,以客為尊全面e化服務

華航給您最與時俱進的全面e路通,網頁內容豐富, 提供您多項實用功能及資訊: 包含網上訂位購票、機上免稅商品預訂、預先 選位選餐、查詢航班動態、班機時刻表閱覽、 預辦登機及華夏會員服務。 旅程,從一個大大的擁抱開始,華航現在邀您網上 體驗,獨享優惠票價與全面e化服務的盛宴。 請與華航一起擁抱藍天!

INA AIRLINES

烏魯木齊,麗江開航,華航帶您一覽兩樣風光!

\*各項e化服務實際操作方式及規范以華航所示為準,詳情請洽華航北美客服中心 1-800-227-5118, 或瀏覽華航網站 www.china-airlines.com



TRACTOR CONTRACTOR

**Travel** without reasons; just go with your **heart** Your journey begins at





### A STAR ALLIANCE MEMBER 📌

## Proud To Be A Shining Star

EVA Air, a Star Alliance member.

Your best choice for business travel between

North America and Southeast Asia.



\* EVA Air reserves the right to change the aircraft type and flight frequency without prior notice.

As Asia's prime business hub and China's global financial centre, Hong Kong remains one of the world's best places to do business.

Our strong fundamentals are underpinned by a trusted legal system, transparent regulatory regime, low and simple taxes, free flow of capital and information, a clean government, and an adaptable, efficient and well-educated workforce.

**Come to Hong Kong to grow your business in Asia.** Hong Kong Economic and Trade Office, San Francisco www.hketosf.gov.hk

www.investhk.gov.hk





# INNOVATING A BETTER FUTURE

#### About ITRI

ITRI is one of the world's leading technology R&D institutions aiming to innovate a better future for society. Based on its long-term partnership with various industry sectors, ITRI offers a wide range of services, from technical to business consultation, to the international community– such as contract research, product and process development, and pilot runs for technological upgrades; IP strategy and licensing, industrial analysis, and talent training for hi-tech business; and the open lab and incubation for new ventures and emerging industries. The Institute has also incubated more than 240 innovative companies since 1973, including well-known names such as UMC and TSMC. Headquartered in Taiwan, ITRI has five branch offices in Silicon Valley, Tokyo, Berlin, Moscow, and Eindhoven to extend its R&D innovation across the globe.

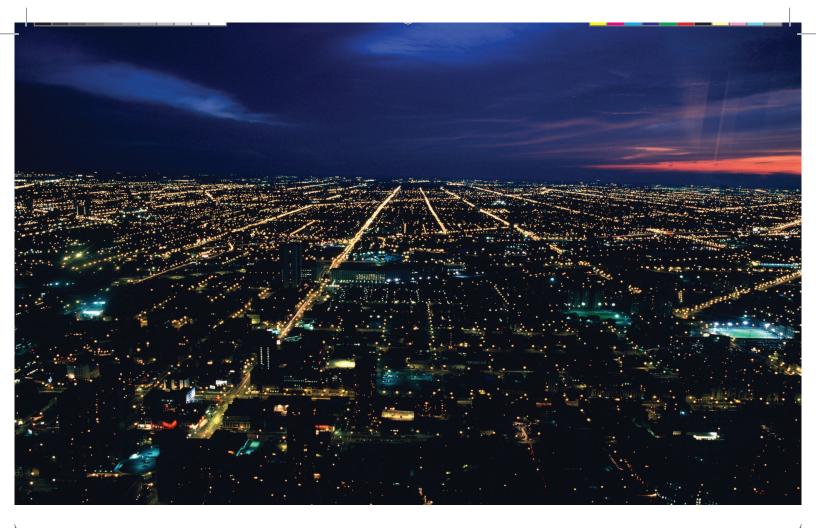




http://www.itri.org.tw

Taiwan Hschu  $\cdot$  San Jose  $\cdot$  Tokyo  $\cdot$  Berlin  $\cdot$  Moscow  $\cdot$  Eindhoven

ITRI Headquarters 886-3-5820100 Hsinchu, Taiwan, R. O. C. ITRI International Inc. (www.itri.com) 1-408-4289988 San Jose, CA, USA



# Schneider Electric is proud to support the **Chinese Institute of Engineers / USA.**

San Francisco Bay Area Chapter

Consuming less, improving efficiency, and protecting the environment with solutions that reduce energy usage by 30 percent or more for our customers are all primary concerns for Schneider Electric<sup>™</sup>.

As The Global Specialist in Energy Management<sup>™</sup>, with operations in over 100 countries, Schneider Electric offers integrated solutions that help make energy safe, reliable, efficient, productive, and green. Our 130,000+ employees are committed to helping individuals and organizations make the most of their energy.



Schneider Electric takes great pride in our people and commitment to the communities in which we live and work.





©2013 Schneider Electric. All Rights Reserved. Schneider Electric and The global specialist in energy management are trademarks owned by Schneider Electric Industries SAS or its affiliated companies. All other trademarks are property of their respective owners. • www.schneider-electric.com • 998-6524\_US\_C\_full.



### Innovation powerhouse at the **Hsinchu Science Park** realizes your dream as an entrepreneur!



http://www.sipa.gov.tw



### Science & Technology Division Taipei Economic & Cultural Office in San Francisco 駐舊金山台北經濟文化辦事處科技組

5201 Great America Parkway, Suite 200 Santa Clara, CA 95054 Tel: (408) 986-8686 Fax: (408) 986-8066 E-mail: sdsf@sciencesf.org http://sf.nsc.gov.tw

# We are here to serve you..

加拿大科技組 http://canada.nsc.gov.tw

Taiwan

華盛頓科技組

http://dc.nsc.gov.tw

舊金山科技組 http://sf.nsc.gov.tw

> 洛杉磯科技組 http://la.nsc.gov.tw

▶加強台美加科技交流合作
▶擴大海外人才延攬之平台
▶協助全台科學園區之招商
▶支持駐地科技社團之活動
▶ 媒合台灣與美加技術資金
▶ 引進科技新知及技術移轉

休士頓科技組 http://houston.nsc.gov.tw





Performance. To get it right, you need a foundry with an **Open Innovation Platform**<sup>®</sup> and process technologies that provides the flexibility to expertly choreograph your success. To get it right, you need TSMC.

It is TSMC's mission to be the **Trusted Technology and Capacity Provider** of the global logic IC industry for years to come. In this regard, TSMC assures your products achieve maximum value and performance whether your designs are built on mainstream or highly advanced processes.

**Product Differentiation.** To drive product value, you need a foundry partner who keeps your products at their innovative best. TSMC's robust platform allows you to increase functionality, maximize system performance and differentiate your products.

**Faster Time-to-Market.** Early market entry means more product revenue. TSMC's DFM-driven design initiatives, libraries and IP programs, together with leading EDA suppliers and manufacturing data-driven PDKs, get you to market in a fraction of the time it takes your competition.

**Investment Optimization.** Every design is an investment. Function integration and die size reduction help drive your margins; it's simple, but not easy. TSMC continuously improves its process technologies to get your designs produced right the first time.

Find out how TSMC can drive your most important innovations with a powerful platform to create amazing performance. Visit **www.tsmc.com** 



Open Innovation Platform®

Copyright 2014 Taiwan Semiconductor Manufacturing Company Ltd. All rights reserved. Open Innovation Platform® is a trademark of TSMC.



### 恪守著170年的承諾, 紐約人壽敬祝您新春快樂!

### 要了解更多紐約人壽的產品與服務, 請與我們聯繫

Greater San Francisco General Office San Mateo Sales Office 415-393-6060 425 Market St. Suite 1600 San Francisco, CA 94105

Silicon Valley General Office 408-452-6000 1731 Technology Dr, Suite 400, San Jose, CA 95110

650-571-1220 2121 S. El Camino Real, Suite 1200 San Mateo, CA 94403

**East Bay General Office** 925-866-4500 2633 Camino Ramon, Suite 525, San Ramon, CA 94583

### 或登錄 www.newyorklife.com/chinese

對於保單、合約等相關文件,紐約人壽及其子公司僅提供英文版本, 如有爭議,一律以保單和合約中的條款為準。 The offering documents (policies, contracts, etc.) for all New York Life and its subsidiaries products are available only in English. In the event of a dispute, the provisions in the policies and contracts will prevail. SMRU1636054(Exp.03.31.2015) © 2015 New York Life Insurance Company, 51 Madison Avenue, New York, NY 10010.

Keep Good Going<sup>®</sup> is a registered trademark of New York Life Insurance Company, all rights reserved.

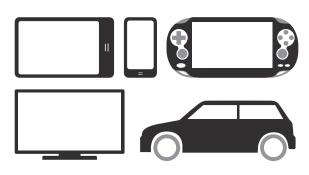
Life Insurance. Retirement. Long-term care.



人壽保險。退休計劃。長期護理。



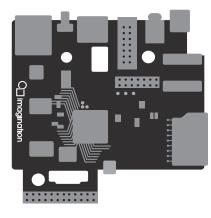
We operate in 16 countries employing 1,700 people



Imagination is in many of the world's most iconic consumer electronic products Over 6 billion people around the world have Imagination enabled devices



We own Pure a leader in wireless music products



Our Creator Cl20 fully featured Linux and Android development platform is available now

## Imagination

## The technology company that powers the world's most exciting consumer electronics

Licensed by leading semiconductor manufacturers, our MIPS, PowerVR, Ensigma and FlowCloud technologies make the world more connected, engaging and immersive than ever before. www.imgtec.com

# Imaging that mirrors reality.

# **OCT Innovation** by Optovue





DEFINING THE OCT REVOLUTION

OPTOVUE, INC.

FREMONT, CA | 1.510.623.8868

WWW.OPTOVUE.COM

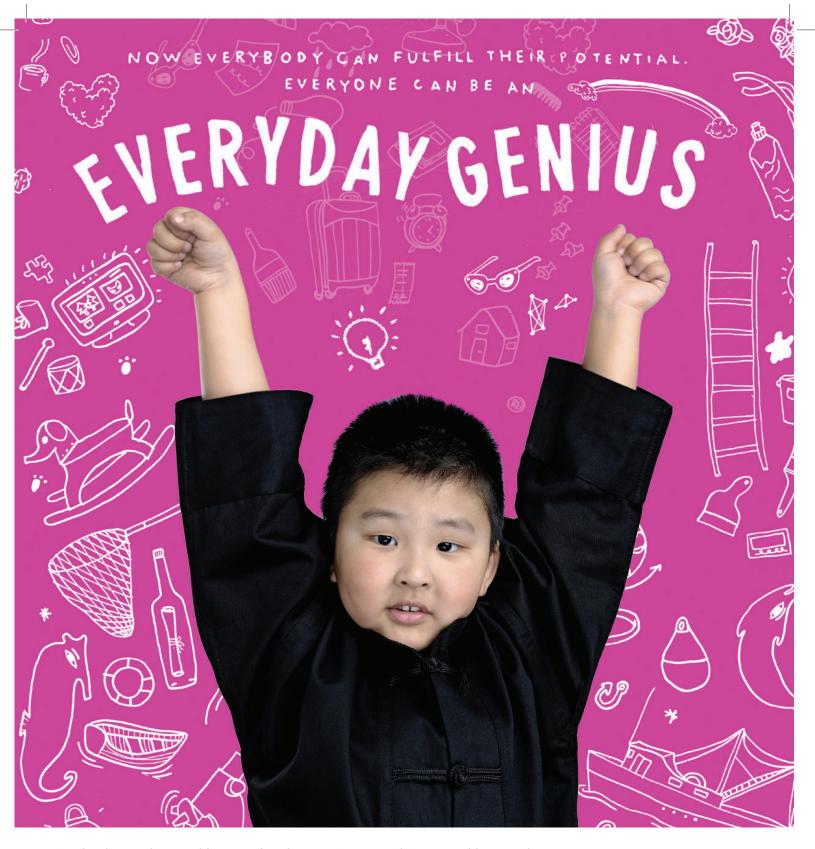
# Connect. Engage. Inspire.

Aerohive's Wi-Fi solutions can be remarkably easy for enterprises and school districts to deploy, manage, and personalize.

See how Aerohive Networks can help by visiting www.aerohive.com



boundless



Technology solves problems and makes exciting new things possible. It makes us smarter in ways we don't always expect - enabling us to do more and enjoy more. MediaTek wants technology to be accessible to everybody because we believe technology can fulfill the potential that's inside all of us and it's the catalyst to make the world a more inclusive place. We make the technology at the heart of smartphones, tablets, smart TVs, wearables and other devices for everyone, everywhere who wants to be an "Everyday Genius".





### Huawei Technologies is proud to support the Chinese Institute of Engineers / USA

HUAWE



A Global Leading ICT Solution Provider 150,000+ Employees 170+ countries 28 Join-Innovation Center 16 R&D centers

Global 500 (Rank NO.285 in 2014), Fortune APAC's Most Attractive Employers (Rank NO.18 in 2014, Engineering Field), Universum China Top 100 Ideal Employers (Rank NO.1 in 2014,

Engineering Field), Universum

HONO

5.

Y.

Top 100 **Best Global Brands** (Rank NO. 94 in 2014, The First Chinese company Elected), Interbrand

### CONNECT HUAWEI

For more information, please visit www.huawei.com Welcome to follow us at LinkedIn: Huawei Technologies For any inquiry, please mail to: talents.sfb@huawei.com

# BUILD A BETTER CONNECTED WORLD