Asian American
Engineer of the Year Award 2015
In Celebration of 2015 National Engineers Week

Los Angeles Airport Marriott
February 28, 2015

www.aaeoy.org

Hosted by Chinese Institute of Engineers - USA 
www.cie-usa.org
FRESH PERSPECTIVES
CREATED DAILY.

Lockheed Martin’s engineers and scientists are driven to deliver solutions to our customers’ toughest problems. We congratulate our outstanding representatives of this community who are among those being named 2015 Asian American Engineer of the Year Award winners. The men and women of Lockheed Martin commend you for your achievements and thank you for your dedication to excellence and innovation.

Learn more at lockheedmartin.com/diversity

LO  CKHEED MA T  IN
2015 Asian American Engineer of the Year Award
February 27-28, 2015
Hosted by Chinese Institute of Engineers - USA (CIE-USA)

Feb 27, 2015     Friday

09:00 am - 03:00 pm  Technical Tour of Jet Propulsion Laboratory and California Institute of Technology

05:30 pm - 09:30 pm  Pre-award VIP Dinner at RMS Queen Mary

Feb 28, 2015     Saturday

09:00 am - 01:00 pm  Culture Tour of Getty Center

09:00 am - 04:00 pm  STEM Presentation & Poster Competition

10:00 am - 05:00 pm  Information Booth Exhibition

01:00 pm - 05:00 pm  Technical Symposium (details on page 49)

  Keynote Speaker: Dr. Shuji Nakamura
  Professor of UC Santa Barbara
  2014 Nobel Prize of Physics Laureate
  Title: “Invention of Blue LED Laser and Solid State Light”

04:00pm - 05:00 pm  VIP Reception to Awardees and Sponsors

05:00pm - 05:20 pm  Grand Ballroom Open

05:20pm - 09:30 pm  Award Ceremony Program (details on page 12)

  Keynote Speaker: Dr. Victor J. Dzau
  President of Institute of Medicine
  National Academy of Sciences
  Title: “The Trend in Medical Research and Diseases Affecting Asians”
On behalf of the Chinese Institute of Engineers USA (CIE-USA), it is my great honor to welcome awardees, sponsors, speakers, CIE-USA members, and all guests to the 2015 AAEOY celebration.

I would like to congratulate all of 2015 AAEOY honorees including two distinguished award recipients, Dr. Shuji Nakamura, a 2014 Nobel laureate for his efficient blue LED light invention, and Dr. Victor Dzau, President of the Institute of Medicine for his dedication to medicine research and leadership in health care innovation. I would like to express our sincere appreciation to sponsors for their continuous support of the AAEOY event, local communities for their participation, and 2015 AAEOY committee members and volunteers for their dedicated efforts and excellent job.

Founded in 1917, CIE-USA has strived to promote Science, Technology, Engineering, and Mathematics (STEM) and been a founding member of the Diversity Council of the DiscoverE (formerly the National Engineers Week Foundation). AAEOY was first held in 2002 by CIE-USA and hailed as the “Oscar for Technology” to recognize outstanding Asian American engineers and executives for their technical achievements and public service. This annual national award program is becoming an important part of the National Engineers Week celebration. As of today, the AAEOY award honorees include eight Nobel Laureates, more than 250 corporate and academic executives, managers, engineers, professors, and researchers.

In addition to the annual AAEOY event, CIE-USA and its seven chapters have sponsored several E-week’s programs including Future City competition for middle schools students, and recognition of New Faces of Engineering Program. CIE-USA is looking forward to working with all of you in continuously providing this important platform to celebrate excellence, recognize achievement, embrace diversity and promote STEM.

On behalf of the 2015 Asian American Engineer of the Year (AAEOY), it is my honor to welcome all distinguished guests, honorees, sponsors, community leaders, CIE-USA members and friends to Los Angeles, California, for the 14th National AAEOY Award ceremony.

The 2015 AAEOY program is co-hosted by the Southern California Chapter (CIE-SOCAL) and the Overseas Chinese Environmental Engineers & Scientists Association (OCEESA) chapter of CIE-USA. It includes a tour of Jet Propulsions Laboratory and California Institute of Technology as well as the Getty Center, a pre-award dinner at the RMS Queen Mary, a four-track technical symposium filled with discussions from 12 professional associations, a private reception for VIP guests, and the award ceremony.

This year, in addition to the 14 honorees nominated by our corporate sponsors, we present the Distinguished Lifetime Achievement Award to Dr. Victor Dzau, President of the Institute of Medicine, and the Distinguished Science & Technology Award to Dr. Shuji Nakamura, Professor of UC Santa Barbara and the 2014 Nobel Prize of Physics Laureate.

I express my sincerest gratitude to all the sponsors and supporters of the 2015 AAEOY program. This program would not be possible without their generous support. I would also like to thank all the members of the 2015 AAEOY planning committee for their dedication and hard work in making the 2015 AAEOY program a success. Finally, I would like to congratulate the recipients of this year’s AAEOY Award. Thank you not only for your outstanding accomplishment in Science, Technology, Engineering and Mathematics, but also for your incredible dedication and diligence to giving back to the community as an Asian American leader.
THE WHITE HOUSE  
WASHINGTON  
February 19, 2015

I am pleased to send greetings to all those observing Engineers Week 2015.

America’s story is one of constant transformation, and our Nation’s makers and thinkers have long pushed against limits to build a legacy of innovation spanning disciplines and industries. With unwavering curiosity and commitment to scientific and technological advancement, they propel our country’s progress and play a vital role in shaping the world around us.

To meet the challenges ahead, America needs the skills and imaginations of all our young people, and I am grateful to those who encourage our youth to go into the fields of engineering and engineering technology. By inspiring tomorrow’s leaders to ask questions and search for solutions, we carry forward the spirit that has always defined us—one of restless inquiry and a drive to bring our dreams to life.

As we celebrate Engineers Week 2015, let us recommit to advancing our country’s proud traditions of exploration and discovery for generations to come.

[Signature]
Asian American Engineer of the Year

February 28, 2015

I am pleased to welcome you to the 2015 Asian American Engineer of the Year Award event.

The ingenuity and culture of Asian American engineers is evident throughout the state of California. I commend the organizers, sponsors and others who worked to organize this event and congratulate the individuals being honored tonight for their accomplishments.

Your contributions to the scientific community serve as an inspiration to your families, colleagues and your co-workers. Best wishes for a memorable event.

Sincerely,

EDMUND G. BROWN JR.
February 28, 2015

Chinese Institute of Engineers
20651 Golden Springs Drive, #296
Walnut, California, 91789

Dear Friends:

It gives me great pleasure to extend my warmest greetings to all who have gathered for the Chinese Institute of Engineers’ 2015 Asian American Engineer of the Year Award and Conference.

Since its inception, the Chinese Institute of Engineers has celebrated the remarkable accomplishments of Asian American scientists and engineers. These individuals have made significant and diverse contributions to the scientific field. There is no doubt that their work is truly praiseworthy.

I would also like to take this opportunity to acknowledge tonight’s honorees: Dr. Victor Joseph Dzau, recipient of the Distinguished Lifetime Achievement Award; and Dr. Shuji Nakamura, recipient of the Distinguished Science and Technology Award. The extraordinary work of each of tonight’s honorees is truly an inspiration to us all.

As your United States Senator representing the State of California, I commend the Chinese Institute of Engineers and both of tonight’s honorees for their remarkable achievements and contributions. Please accept my best wishes for a most enjoyable and memorable event.

With warmest personal regards.

Sincerely yours,

Dianne Feinstein
United States Senator
Ms. Scarlett Kwong and Mr. Jason J. Wen, Ph.D., P.E.
Co-Chairs
Asian American Engineer of the Year
20651 Golden Springs Drive, #296
Walnut, CA 91789

Dear Friends:

It is my honor to join with the Chinese Institute of Engineers - USA (CIE/USA) to extend warm greetings to all those attending the 14th Annual Asian American Engineer of the Year 2015 Conference and Award Ceremony.

Each year in recognition of National Engineers Week, AAEYO brings together engineers and scientists from all sectors of public and private industry to discuss new ideas, technological advancement and innovation. Building upon years of scientific and engineering discovery, AAEYO offers a stage from which engineers and scientists can collaborate and strengthen partnerships that advance California’s economic future.

Congratulations to Dr. Victor Joseph Dzau, President, Institute of Medicine, National Academy of Science, recipient of the Distinguished Lifetime Achievement Award and Dr. Shuji Nakamura, 2014 Nobel Prize in Physics, Laureate, recipient of the Distinguished Science and Technology Award. Your pioneering work inspires us all.

I commend the leaders and participating organizations for your involvement in this memorable event. Best wishes for a most productive and successful year.

Very truly yours,

JOHN CHIANG
California State Treasurer
February 28, 2015

Chinese Institute of Engineers
5855 West Century Boulevard
Los Angeles, CA 90045

Dear Friends,

It is with great pleasure that I extend a warm welcome to all those who have gathered here at the Los Angeles Airport Marriot for the Asian American Engineer of the Year Gala hosted by the Chinese Institute of Engineers.

The Chinese Institute of Engineers has, for nearly one hundred years, encouraged the advancement of science, technology, engineering and math across the United States. It has also endeavored itself to recognize deserving engineers who have exhibited excellence through leadership, personal ability and service to the community.

I commend the Chinese Institute of Engineers for its dedication in creating outstanding programs for high school and college students. Its efforts have enhanced the quality of life of all people throughout the United States by supporting the nation’s future engineering community. The continued success the Chinese Institute of Engineers has achieved during this noble pursuit serves as an inspiration to us all.

On behalf of the United States House of Representatives and the people of the 27th Congressional District, I offer the Chinese Institute of Engineers my congratulations and best wishes for a wonderful and meaningful event.

Sincerely,

JUDY CHU, Ph.D.
Member of Congress, 27th District
Dear Friends:

Best wishes as you gather at the annual Asian American Engineer of the Year Conference and Award Dinner.

I am delighted to join you in honoring Dr. Victor Joseph Dzau, President of the Institute of Medicine, National Academy of Sciences on his receipt of the Distinguished Lifetime Achievement Award and Dr. Shuji Nakamura one of the 2014 Nobel Prize in Physics Laureates, on his receipt of the Distinguished Science & Technology Award.

Our community owes the Asian American Engineer of the Year 2015 Executive Committee, the Chinese Institute of Engineers, and Dr. Shuji Nakamura a debt of gratitude for their tireless hard work and dedication. Congratulations and best wishes for a fantastic event.

Sincerely,

TED W. LIEU
Member of Congress
February 28, 2015

Dear Friends:

I would like to extend my warmest welcome to all who are participating in the Asian American Engineer of the Year Award event. I applaud the efforts of the Chinese Institute of Engineers-USA to honor and celebrate the achievements of Asian American engineers.

As the U.S. Representative for California’s 39th district, I am committed to supporting our engineers and their technical contributions to society. I support the Chinese Institute of Engineers-USA and its promotion of Asian American engineers and scientists in the fields of science, technology, engineering, and mathematics in Southern California. Your efforts are commendable.

Events like this are an excellent opportunity to celebrate the hard work of our professional engineers and scientists in the Asian American community. I thank all those who have helped organize this event, and I trust it will provide an excellent opportunity to increase support within the Chinese Institute of Engineers-USA. I wish you a very successful and memorable event.

Sincerely,

Edward R. Royce
Member of Congress
February 28, 2015

Dear Friends,

Welcome to the 14th Annual Asian American Engineer of the Year Conference and Award Ceremony. Tonight, we seek to recognize and celebrate the accomplishments of some exceptional awardees.

I would like to offer sincere congratulations to tonight’s honorees: Dr. Victor J. Dzau and Professor Shuji Nakamura for their philanthropy and advocacy on behalf of the Chinese Institute of Engineers. Their efforts, which inspire future engineers, are truly commendable.

Congratulations to the Chinese Institute of Engineers Southern California Chapter for another successful year. I applaud your continued efforts and wish you many more years of prosperity and success.

Sincerely,

DON KNABE
Supervisor, Fourth District
County of Los Angeles
February 28, 2015

Dear Friends,

On behalf of the City of Los Angeles, welcome to the 14th Asian American Engineer of the Year Award hosted by the Chinese Institute of Engineers-USA in celebration of the 2015 National Engineers Week.

Thank you to the Chinese Institute of Engineers-USA for hosting this convention in Los Angeles and to the event sponsors, speakers and guests for their support of Asian American professionals and their achievements in science, technology, engineering, and mathematics. For nearly a century, the Chinese Institute of Engineers-USA has been a valuable resource to engineering and science professionals in every community. Its efforts to promote STEM learning and careers has had a profound impact on our nation.

I send my best wishes for a memorable event and continued success.

Sincerely,

ERIC GARCETTI
Mayor
2015 Award Ceremony Program
Saturday, February 28, 2015

5:00 pm    Grand Ballroom Open
5:20 pm    Masters of Ceremony Welcome
            *Mr. Ted Chen & Ms. Eileen Kwan*
5:30 pm    Honorees Red Carpet Entrance
5:40 pm    National Anthem and Pledge of Allegiance
5:50 pm    Remarks by the Executive Committee Chair
            *Ms. Scarlett Kwong*
5:55 pm    Remarks by the CIE-USA National Council Chairman
            *Dr. Jason Wen*
6:00 pm    Acknowledgment of Congratulatory Letters and VIPs
6:10 pm    Dinner
6:40 pm    The Distinguished Lifetime Achievement Award
6:50 pm    Keynote Speech
            *Dr. Victor Joseph Dzau*
            President of Institute of Medicine, National Academy of Sciences
7:10 pm    The Distinguished Science & Technology Award
            *Dr. Shuji Nakamura*
            Professor, University of California, Santa Barbara
7:20 pm    Presentation of Awards – Part I
8:10 pm    Entertainment
8:30 pm    Presentation of Awards – Part II
9:20 pm    2016 AAEOY Announcement
            *Dr. Jason Wen*
9:25 pm    Closing Remarks
            *Ms. Scarlett Kwong*
9:30 pm    Door Prize Drawing – Program Adjourn
## 2015 Award Ceremony Program

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Distinguished Lifetime Achievement Award
Dr. Victor J. Dzau

President, Institute of Medicine
National Academy of Sciences

Dr. Dzau has made a significant impact on medicine through his seminal research in cardiovascular medicine and genetics, his pioneering of the discipline of vascular medicine, and his leadership in health care innovation.

Victor J. Dzau is President of the Institute of Medicine, Chancellor Emeritus at Duke University and former CEO of the Duke University Health System. He has led efforts in innovation to improve health, including developing the Duke Translational Medicine Institute, Duke Global Health Institute. He has served on the Advisory Committee to the Director of National Institutes of Health (NIH) and chaired the NIH Cardiovascular Disease Advisory Committee.

He is a member of Member of IOM, National Academy of Sciences, American Academy of Arts and Sciences, European Academy of Sciences and Arts, Academic Sinica. He is the 2005 Ellis Island Medal of Honor. Dr. Dzau’s past academic positions also included: faculty & Chair at Medical Schools of Harvard University & of Stanford University.

He was born in Shanghai and grew up in Hong Kong. He received his M.D. both from the medical school at McGill University and King’s College in London. Currently he is a member of the Board of the Singapore Health System and Hamad Medical Corporation, Qatar. He chaired the Global Agenda Council on Personalized and Precision Medicine of the World Economic Forum.

Among his honors and recognitions are the Gustav Nylin Medal from the Swedish Royal College of Medicine; the Max Delbruck Medal from Humboldt University, Charité, and the Max Planck Institute; the Commemorative Gold Medal from the Ludwig Maximilian University of Munich; the Inaugural Hatter Award from the Medical Research Council of South Africa; the Polzer Prize from the European Academy of Sciences and Arts; the Novartis Award for Hypertension Research; the Distinguished Scientist Award from the American Heart Association (AHA); and the AHA Research Achievement Award for his contributions to cardiovascular biology and medicine. Recently, he was awarded the Singapore National Day Public Service Medal. He has received six honorary doctorates.
Professor Shuji Nakamura, the inventor of the blue LED, is a recipient of the 2014 Nobel Prize for Physics “for the invention of efficient blue light-emitting diodes, which has enabled bright and energy-saving white light sources.”

Professor Nakamura is a naturalized US citizen from Ehime, Japan. He and his family currently reside in Santa Barbara.

Professor Nakamura obtained his B.E., M.S., and Ph.D. degrees in Electrical Engineering from the University of Tokushima, Japan in 1977, 1979, and 1994, respectively. He joined Nichia Chemical Industries Ltd. in 1979. In 1988, he spent a year at the University of Florida as a visiting research associate. In 1989, he started the research of blue LEDs using group-III nitride materials. It was while working for Nichia that Nakamura invented the first high brightness blue gallium nitride (GaN) LED, which is the key to white LED lighting. He also developed the first group-III nitride-based violet laser diodes (LDs) in 1995.

Since 2000, Nakamura has been a professor of Materials and Electrical & Computer Engineering at the University of California, Santa Barbara. He holds more than 200 US patents and over 300 Japanese patents. He has published over 550 papers in his field. Professor Nakamura is the Research Director of the Solid State Lighting & Energy Electronics Center and The Cree Chair in Solid State Lighting & Displays. He co-founded Soraa, Inc. in 2008, which operates vertically integrated fabrication facilities in California’s Silicon Valley and Santa Barbara.
Asian American Executive of the Year Award

Dr. Naveed M. Hussain

Director, Health & Life Sciences
The Boeing Company

With sustained leadership and strategic vision, Dr. Naveed Hussain, as vice president of Aeromechanics Technology and leader of the Boeing Research & Technology research center in Southern California, is passionate about building successful technology teams that also enable people to fulfill their dreams, and he is responsible for providing innovative technologies that enable the development of future aerospace solutions while improving cycle time, quality and performance of existing products and services.

Dr. Naveed Hussain is vice president of Aeromechanics Technology and leads the Boeing Research & Technology research center in Southern California. The research center provides innovative technologies that enable the development of future aerospace solutions while improving the cycle time, cost, quality and performance of existing Boeing products and services.

Dr. Hussain oversees a large team of scientists, technologists and engineers who are responsible for integrated technology development in the areas of flight sciences and structures. Previously, Hussain led Platform & Networked Systems Technology, where he was responsible for advanced research in electronics, electro-optics, modeling and simulation, homeland security, advanced air traffic management, semiconductors, networked systems, and cyber security. Dr. Hussain also served as chief engineer of Network & Tactical Systems, responsible for ensuring engineering technical excellence and mission assurance for those programs including tactical networking, communications antennas, combat support vehicles, airborne and ground based satellite terminals, and robotics.

Dr. Hussain’s passion for aerospace began in childhood when his father, an applied mathematician, inspired him to find truth in math and science to understand the world around him. Hussain credits amazing mentors – his father, a Stanford professor and several Boeing executives – with providing guidance and helping him learn to build and lead successful technology teams.

Dr. Hussain began his career at The Boeing Company as a Howard Hughes Doctoral Fellow, eventually serving in key leadership roles of increasing responsibility and breadth, including launch of the Boeing-India research center in Bangalore in 2009.

Hussain earned a BS degree from Rensselaer Polytechnic Institute and MS and Ph.D. degrees from Stanford University, all in mechanical engineering. He also completed an MBA from The Wharton School, University of Pennsylvania. A member of the Aeronautical Society of India, Dr. Hussain also is Boeing executive focal for the American Society of Engineers of Indian Origin. This group honored him with the Excellence Award for Outstanding Achievement in 2007.
Asian American Engineer of the Year Award

Dr. Anne Kao

Senior Technical Fellow
The Boeing Company

A Senior Technical Fellow at The Boeing Company, and a generous mentor to engineers at Boeing, in academia and the industry, Dr. Anne Kao is an innovative pioneer and internationally recognized expert in text analytics with 12 significant patents whose tools and methods help solve complex problems and extract key information from large sets of aviation safety, maintenance, manufacturing and intelligence data.

Dr. Anne Kao is an internationally recognized expert in text analytics who is a Senior Technical Fellow at The Boeing Company. Dr. Kao is responsible for leading and coordinating the company’s research and development in data analytics, creating an Intellectual Property strategy, collaborating with national and international universities and laboratories, and building depth and breadth in the field to create business values for Boeing.

A text-mining pioneer with a long record of ground-breaking innovation, Dr. Kao’s tools and methods help solve complex problems and extract key information from aviation safety, maintenance, manufacturing and intelligence data. She created TRUST text analysis software to help users understand topics in large document collections; KM DocTER which categorizes free-text data to solve challenges in manufacturing, airline maintenance and aviation safety; and P-MATCH and QUBIT which help identify aircraft part names and offer a scalable solution to leverage engineering knowledge from non-professionally authored messy data.

Dr. Kao holds 11 U.S. patents and one European Union patent. She has published several dozen papers in peer-reviewed journals and conference proceedings. She was General Chair for the 2013 Institute of Electrical and Electronics Engineers Intelligence Security Informatics Conference; session Chair at the Society for Industrial and Applied Mathematics Data Mining conference; and Co-chair of the Integrated Multimedia Mining Workshop at SIGKDD. Dr. Kao is an active member of ACM SIGKDD, the Association for Computing Machinery – Special Interest Group: Knowledge Discovery and Data Mining, and co-founder of the Northwest chapter.

A generous mentor, Dr. Kao helps colleagues and students define career paths and improve technical skills, she plays a key role in the Boeing Technical Fellowship, participates in American Women in Science mentoring activities, and is a Washington State University Capstone project advisor. Dr. Kao is founder and lead of the Boeing Analytics Community of Excellence with 1,500 members, and co-founder and organizer of Science on Tap, a Science Café community science education organization in Seattle. Dr. Kao has a bachelor’s degree in Philosophy from the National Chengchi University in Taiwan, a master’s degree and Ph.D. in Philosophy from the Chinese Cultural University in Taiwan, and a master’s degree in Computer Science from San Diego State University. Anne enjoys playing duplicate bridge and recently obtained Silver Life Master status.
Dr. Philip T. Chiu
Program Manager
The Boeing Company

Dr. Philip Chiu is a program manager and principal investigator for next-generation space and terrestrial solar cells who pioneered significant contributions to the solar cell community including setting four world records on cell efficiency and producing a cell tester five times faster than its predecessor.

Dr. Philip Chiu is a principal investigator and program manager in the Advanced Technology Products division of Spectrolab, a wholly owned subsidiary of The Boeing Company in Sylmar, CA. Chiu serves as a principal investigator on multi-million dollar programs to develop next-generation space and terrestrial solar cells and serves as program manager for a team developing next-generation cell testers.

Under Dr. Chiu’s technical leadership, these projects have achieved two world records for space and terrestrial solar cells and implementation of a production-level tester more than five times faster than its predecessor.

Prior to joining Spectrolab, Chiu was a Metal-Organic Chemical Vapor Deposition scientist at Spire Semiconductor in New Hampshire where he was principal growth engineer developing bifacial terrestrial concentrator cells. Within two years, his team had fabricated a record terrestrial concentrator cell at 42.3 percent.

Dr. Chiu earned a bachelor’s degree in Chemistry from Amherst College and a Ph.D. in Materials Science and Engineering from Northwestern University. His doctoral research focused on the epitaxial growth of III-V films by metal organic vapor phase epitaxy. Chiu also designed and built novel instrumentation capable of measuring extremely small magneto-optic effects. In high school, Chiu’s passion and aptitude for engineering was reinforced during a two-year summer internship at IBM’s Thomas J. Watson Research Center where he learned various micro-electronic fabrication techniques including photolithography, electroplating, etching and sputtering.

Dr. Chiu is a member of the Institute of Electrical and Electronic Engineers. He has published technical papers in several journals including the Journal of Photovoltaics and Applied Physics Letters, given a dozen presentations on solar cells, and filed for four patents.

Dr. Chiu lives in the foothills of Southern California where he is a devoted husband and father to two young girls. He volunteers at their schools and is an active church member. In his spare time, Dr. Chiu enjoys road biking and playing tennis.
Sanjive Agarwala is a Senior Fellow and Director of Worldwide Silicon Development, Embedded Processors at Texas Instruments (TI). He leads the worldwide development of the company’s leading edge System-on-Chip (SoCs) in the automotive, industrial, multi-core DSP/ARM and communication infrastructure markets. He is also responsible for the roadmap and development of TI C6x DSP, ARM cores, and an array of innovative networking, multimedia, radio and SOC infrastructure technologies. These arrays of innovative, high performance and low power systems are designed in leading edge CMOS semiconductor technologies with state-of-the-art tools, flows and methodologies. These complex digital systems have significant analog integration, offering immense integration, value and ease-of-use for the company’s customers.

Over the last five years, Sanjive has pioneered a SOC platform and reuse concept called Keystone that has fundamentally reshaped the way TI approaches and develops advanced digital SOC systems. The Keystone platform approach has brought unparalleled gains in quality, productivity, consistency, time-to-market and operating cost of delivering advanced system solutions. The Keystone platform has demonstrated success by delivering over 10 devices across two generations of platforms and technologies. Sanjive and his team are currently engaged in the roadmap and development of a third generation Keystone platform, with products due out in 2015. Sanjive routinely engages with customers and technology companies across the globe to understand and influence the semiconductor industry’s direction and roadmap. He is an invited speaker at various prestigious conferences, such as DAC, ISSCC, HPEC, SLATE and other TI and industry forums. Sanjive has filed or been granted 40 U.S. patents and is the author of a number of technology articles that have been featured in industry publications.

Sanjive is very engaged in nurturing, mentoring and supporting engineers both inside and outside TI. This is a personal priority and he spends significant time through various diversity initiatives, invited talks, mentoring programs and other forums designed to reach and motivate. Sanjive is also very involved in the local community, schools and religious institutions. He volunteers at the United Way, Akshay Patra; has given talks to motivate kids to pursue careers in science and engineering; read books for kids from underserved areas or families in need.

Sanjive earned a MS degree in Computer Science from Southern Methodist University in Dallas, TX. He holds a BS degree in Electrical Engineering from Punjab Engineering College in India. Sanjive lives in Plano, TX with his wife Manisha and three kids. His favorite hobbies are music and running. He completed half marathon and has his eyes set on running a full marathon.
As a professor, Dr. Yao’s research has been sponsored by National Science Foundation, Department of Defense, DARPA, U.S. Army, and Office of Navy Research. In particular, his research in electronic warfare and directed energy technologies has been sponsored by U.S. Army CECOM (Communications-Electronics Command) and U.S. Army ARDEC (Armament Research, Development and Engineering Center).

He holds thirteen U.S. patents. His research and engineering designs have been implemented and commercialized in Globalstar, Sprint and Verizon networks. Dr. Yao was an Associate Editor of IEEE Communications Letters (2000-2008) and IEEE Transactions on Vehicular Technology (2001-2006), and an Editor for IEEE Transactions on Wireless Communications (JSAC-Wireless) (2001-2006). Dr. Yao was elected an IEEE Fellow in 2011 for his contributions to wireless communications systems. In 2013, he received Advancement of Invention Award from New Jersey Inventors Hall of Fame.

Dr. Yao contributes to the activities of WOCC, inc., a not-for-profit organization, promoting collaboration and technical exchange and organizing annual wireless and optical communications conferences in U.S., Taiwan, and Mainland China. He served as WOCC president (2008-2010) and Chairman of the Board of Trustees (2010-2012).

He received a Bachelor of Engineering degree (1982) and Master of Engineering degree (1985) from Nanjing University of Posts and Telecommunications, Nanjing, China, and a Ph.D (1988) from Southeast University, Nanjing. He was a visiting student at Carleton University, Ottawa, in 1987 and 1988.

Dr. Yao was a senior engineer/staff engineer with Qualcomm Inc., San Diego, California, from 1994 to 2000. From 1990 to 1994, he was with Spar Aerospace Ltd., Montreal, Quebec, as a member/senior member of technical staff. From 1989 to 1990, he was a Research Associate at Carleton University, Ottawa, Ontario.
Asian American Most Promising Engineer of the Year Award
Katherine Pendergraph

Project Engineer
Northrop Grumman Corporation

Katherine recalls the experienced engineers who mentored her through her career. For example, they inspired her to get her advanced degree for depth and credibility. In turn, Katherine has mentored several engineers, including minority men and women, coaching some of these young engineers to follow her own path in the Northrop Grumman Systems Engineering Associates (SEA) program, or to accept increased responsibility as a project engineer.

Within months after joining Northrop Grumman, Katherine began building skills: SE certification, Masters in Aerospace Engineering, enhanced communications abilities in Toastmasters and, always, OJT experiences as a lead engineer. This was gratifying, but hard-earned.

For example, to gain the MS degree at UCLA: “up at 4am, take the train to school, attend two daily classes, go to work at Northrop Grumman until 9pm, then home, and, next day, start all over again – for 2 years!” Katherine was then a member of the local Society of Women Engineers (SWE), and was gratified to see increased enrollment of women in engineering from 10% to 25% between her initial BS and later MS school days.

Katherine is expanding her skills and knowledge along themes present throughout her career: the “big picture” and business development. She completed UCSD Strategic Leadership Certification (2014): “Strong leadership is another mechanism to help a team toward their goal and a feeling of accomplishment. That is why I want to be a leader at Northrop Grumman; to inspire and lead people to success. I want them to come to work every day, exactly like I do, with a sense of purpose and pride in the work we do.”

Katherine’s responsibilities in BACN have advanced from Product Manager with complete systems responsibilities, including environmental testing, packaging and components, for the Airborne Executive Processor (AEP); to SE Lead for the Gateway Manager (GM), another major BACN subsystem; to her current role as responsible engineer (Project Engineer) for all BACN software, including verification and validation, and including four baseline software versions ranging from operationally fielded software to new baselines in development.
Mr. Kalva currently leads a large group of talented business transformation, technology innovation individuals and Engineering Program Managers as CTO & Engineering Director, Health and Life Sciences for Information Systems & Global Solutions – Civil at Lockheed Martin Corporation. Mr. Kalva has over 23 years of experience in business strategy and execution harnessing emerging technologies and processes. His expertise is in ideation, developing proof-of-concepts to deploying solutions and enabling a continuous improvement processes.

Mr. Kalva’s knowledge in Data Analytics, Cloud Computing, CRM, Cyber Security, mobile and social technologies and business transformation is well recognized in government space. His major accomplishments include SolaS – Cloud computing solutions for governments, large-scale system architecture development, system migration and transition, COTS-based systems integration, and systems engineering process improvement. He is a proven leader for his ability to envision, strategize, plan, and execute successfully.

He has lectured at George Mason University on topics such as “Role of Technology in Globalization and its effects on World Economies and Socio-Political Spectrum”. Mr. Kalva spoke on different aspects of technology at many government and industry forums across the globe.

Mr. Kalva has a Master’s degree in Computer Information Systems from Southern New Hampshire University, NH. He has attended graduate level courses in Business Administration at MIT Sloan Business School and University of Poona, India. Mr. Kalva was recently awarded the Cloud Architect of the year, Entrepreneur of the Year in 2008 and was employee of the year in 2000. He has graduated from Leadership Montgomery program in 2014 – brings together emerging leaders to make Montgomery County a better place to live and work. Mr. Kalva plays role of advisor for several academic institutions across Maryland and enhances their Cyber Security and STEM posture. Mr. Kalva is married to Kavita Kalva, a self-employed individual in the field of Events Planning and they are blessed with two daughters Raaga and Richaa. Raaga is a freshman at Carnegie Mellon University and Richaa is an 8th grader.
Asian American Engineer of the Year Award

Dr. YC Yiu

Lockheed Martin Fellow

Lockheed Martin Space Systems Company

Dr. Yiu shapes the future of satellite technology and space exploration through his many contributions to structural dynamics.

Success in aerospace is all about designing complex systems that function flawlessly in extreme environments. As a recognized expert in shock, vibration, and spacecraft dynamics, Dr. YC Yiu, a Fellow at Lockheed Martin, has contributed to the success of many critical space systems. These projects range from the International Space Station to Lunar Prospector, from classified national security projects to innovative commercial and military communications satellites such as Iridium and Milstar.

YC’s path to technical mastery began at the U.C. Berkeley, where he earned a bachelor’s degree in Civil Engineering, followed by master’s and doctor’s degrees in Structural Engineering. Joining Lockheed Martin in 1986, he quickly distinguished himself as a technical leader, contributing to the solution of numerous critical vibration problems encountered both on the ground and in orbit. In the early 90s, he led an Integrated Processes Team (IPT) for Passive Damping of the Space Integrated Controls Experiment and also served as Deputy Program Manager for the Damping and Metal Matrix for Precision Structures research contract.

Starting in 1997, YC served as the Manager of Structural Dynamics and Vibroacoustics in the company’s Space Flight Sciences Organization, and in 1999, he was appointed Principal Investigator of Integrated Analysis of Advanced Optical Systems. Among his achievements was development of an advanced structural modeling method for on-orbit performance of optical systems.

In the 2000s, he has continued to serve as IPT Lead for a number of projects at the forefront of structural dynamics modeling. In addition to his wide technical impact, Dr. Yiu is known for his ability to mentor young engineers. He was selected to develop and teach a graduate-level course, Advanced Design and Engineering of Space Systems, at Stanford University as a guest professor. YC is an Associate Fellow in the American Institute of Aeronautics and Astronautics (AIAA) and a member of the AIAA Structural Dynamics Technical Committee. In these roles, he chairs technical sessions at the AIAA Structures, Structural Dynamics, and Materials Conference and reviews numerous conference and journal papers.

In 2005, Dr. Yiu was elected a Lockheed Martin Fellow, and was re-elected into this elite group in 2008 and 2011. Today, he continues to solve technical problems in dynamics, shock, and vibration across the company’s many lines of business and serve as member of independent review teams/boards. One of YC’s customers attests that his “sustained record of exceptional technical achievement is one of the strongest that I have seen in my 16 years of government civil service.”
Asian American Most Promising Engineer of the Year Award

Tina Lim

Electronics Engineer Associate Manager
Lockheed Martin Space Systems Company

In her short career, Ms. Lim has made significant contributions to the demanding field of aerospace engineering on projects where failure is not only frowned on, but can have catastrophic consequences.

Tina was only two when her family emigrated from Taiwan to the United States. She learned the importance of extra effort at a young age, watching her father work hard on computer classes in the evenings in order to get a good job. Today, through the steady application of training, intellect, and perseverance, she has distinguished herself in the demanding field of aerospace engineering on projects critical to global communications and national security.

Tina traces her interest in engineering to the 4th grade, when an aerospace engineer visited the class, bringing posters of astronauts and other planets. Enrolling at U.C. Berkeley, she studied Electrical Engineering and Computer Science, meanwhile receiving valuable encouragement from the Society of Women Engineers. She went on to serve as Treasurer, Secretary, then Vice President of that organization, and remains deeply involved in the society’s programs for encouraging girls to enter the engineering field.

In 2002, Tina joined Lockheed Martin. She made an impact from the start, quickly advancing to systems engineer and making important contributions to the Advanced Extremely High Frequency (AEHF) communications satellite program. She began evening classes that eventually led to an M.S. in Electrical Engineering, and became a leader in the company’s Asian & Pacific Islander Leadership & Mentoring Association (ALMA).

In 2004, as systems engineer for the Atmospheric Imaging Assembly, she contributed to the important task of using space-based instruments to study how solar flares, a potential hazard to astronauts in space and terrestrial communications networks, are generated by solar activity.

From 2006 to the present, Tina has worked on the Fleet Ballistic Missile Program (FBM), the cornerstone of the nation’s strategic deterrent. She assembled and led the Avionics team and led development of the missile’s Avionics Computer, Interlocks Accelerometer, and Destruct Acceleration Switch—the latter device a critical component for range safety during missile flight tests. Her efforts have helped sustain the program’s astonishing record of more than 150 test launches in the last two decades without a single failure. Through her achievements at work and in local schools, Tina has demonstrated to the next generations how to excel in engineering.

Tina is happily married and has one 4 year old son and due with a baby girl in June 2015. She enjoys volunteering, swimming, traveling, and trying out new restaurants, while spending quality time with family and friends.
Asian American Engineer of the Year Award
Dr. Guozhu Long

Huawei Fellow, Network Broadband Access
Huawei Technologies

Dr. Guozhu Long has led Huawei’s advanced copper broadband access technology research and development on innovative system architecture, advanced modulation/coding and signal processing techniques and their efficient implementation, resulting in high-performance, cost-effective products which enabled Huawei to become the global leader in copper broadband access market, technology and standardization.

Dr. Long was born in 1945 in Shanghai, China. He completed high school in Shanghai, and received B.S. and M.S. degrees in Electrical Engineering from Tsinghua University in Beijing, China in 1968 and 1981, respectively, and Ph.D. degree in Electrical Engineering from Northeastern University in Boston, MA in 1989. He then joined Motorola Codex in Boston as a principal engineer where he did advanced R&D on high-speed voice band modems such as V.34. He joined Cirrus Logic in Raleigh, NC in 1994 as the advisory engineer where he continued R&D work on voiceband modem such as V.34 and V.90. In 1997, he became the first employee of a start-up Centillium Communications in Fremont, CA as Vice President of Advanced R&D, focusing on DSL technologies, standard and ASIC chipsets. His innovations led to the company’s unique ADSL product which successful dominated Japan ADSL market and accounted for the company’s over 90% revenue. In 2005, he became Vice President of advanced research and development with Mediaphy, working on mobile TV. Since 2006, Dr. Long has been with Futurewei Technologies, which is the US R&D center of Huawei Technologies.

Dr. Long has been heavily involved in leading R&D activities for developing innovative techniques for digital communications systems and signal processing, and in the international standardization committees (such as ITU-T, ATIS, TIA and Japan TTC) in the areas of DSL transceivers, voiceband modems, mobile TV and other digital communications systems. His carrier has been closely coupled to the copper access industry evolution in the last 30 years from voiceband modems of only a few KBPS to today’s fast DSL up to 1 GBPS. Examples of his innovations include echo canceller fast initialization, delay LMS algorithm, DC compensation algorithms for V.90 modems, low power mode for ASDL modems, loop diagnostics techniques, emergency rate adjustment for VDSL2, efficient and robust crosstalk cancellation techniques, effective clock synchronization techniques, accurate distribution of time through DSL network, power efficiency improvement techniques, and various efficient product implement techniques. Dr. Long holds 43 US patents and has published numerous articles including journal and conference papers, and standard contributions, in the area of digital communications systems and signal processing techniques. He is a senior member of IEEE.

Dr. Long is married to Xiuhua Zhang. They have 2 daughters Helen and Sherry, and 4 grand children Logan, Lillian, Grace and Lucas.
Asian American Engineer of the Year Award
Dr. Somuri V. Prasad

Principal Scientist & Engineer
Sandia National Laboratories

Dr. Somuri Prasad is currently a Principal Scientist & Engineer at Sandia National Laboratories, Albuquerque, NM. He was born in a small village in southern India, and completed high school in his native village. He received his Master’s degree in Metallurgical Engineering from the Indian Institute of Science, Bangalore and a PhD in Materials Science at the University of Sussex, England in 1977. Dr. Prasad returned to his native country and began his professional career as a Staff Scientist at the Council of Scientific & Industrial Research.

He also spent a two-year sabbatical leave of absence teaching and conducting postdoctoral research at the University of Notre Dame. In 1990, Dr. Prasad came to the Air Force Research Laboratory at the Wright Patterson AFB, Ohio, on a National Research Council (National Academy of Sciences) Senior Fellowship award and worked there for the next 10 years until he moved to Sandia National Laboratories in the Fall of 1999.

Dr. Prasad is an internationally recognized Materials Scientist & Engineer, both as a pioneer and a long-time contributor, with research contributions spanning more than three decades.

His research and leadership in the tribology (friction and wear) community have resulted in significant advances to the fundamental science and practical applications of tribology and tribological materials. In his more than 35 years of experience in the United States and in his native country, Dr. Prasad has demonstrated his technical leadership in solving complex, mission-critical engineering issues based on his knowledge of fundamental materials science.

At Sandia National Laboratories, Dr. Prasad has successfully integrated lab core capabilities with Sandia’s mission needs in nuclear weapons surety, space mechanisms, and energy.

Dr. Prasad has authored over 80 technical publications in peer-reviewed journals. He is the co-inventor of 5 US patents. Dr. Prasad was elected as a Fellow of the Society of Tribologists and Lubrication Engineers (STLE) in 2004 and a Fellow of ASM-International in 2008. He was the recipient of the Al Sonntag Award from STLE, Diatome Award from Microscopy Society of America, and Star Team Award from the Air Force Office of Scientific Research. In his dual-role as an Adjunct Professor at three Universities (University of Colorado at Boulder, University of North Texas and New Mexico Institute of Technology) and as Staff Scientist at Sandia, Dr. Prasad has mentored several graduate students, post-doctoral fellows, and young staff members.

Dr. Prasad is married to Suma and they have one daughter, Swati.
Dr. Patrick Feng is a materials scientist at Sandia National Laboratories, serving as principal investigator for several projects associated with homeland security. His background in synthetic chemistry and solid-state physics has enabled Patrick to deliver innovative, interdisciplinary solutions to long-standing technical issues related to radiation and chemical detection. Patrick graduated with a B.S. in Chemistry from Colorado State University in 2004 and a Ph.D. also in Chemistry from the University of California, San Diego in 2009.

Dr. Feng’s research as an early career scientist has focused on luminescent sensing materials, as relevant to high-consequence applications based on scintillating radiation detectors, fluorogenic tamper-evident seals, and nanoporous chemical detection media. His work on radiation detectors has resulted in the first material capable of wavelength-resolved discrimination of fissionable threat materials from background radiation sources.

Dr. Feng is the recipient of several awards and fellowships, including a 2014 R&D100 award, American Society of Chemists Award, CRC Press Chemistry Award, National Science Foundation Graduate Research Fellowship, and Hughes Research Scholars Fellowship.

In addition to his professional pursuits, Patrick is committed to educational mentorship. At Sandia, he is actively involved in the training of undergraduate researchers via internships and as part of the Department of Homeland Security’s HS-STEM program. He has also volunteered as a mentor for gifted and talented high school students and as a science/math tutor for homeless middle- and high-school students.

Patrick also finds great value in the beauty of natural resources, and volunteers to provide trail maintenance/clean up and technical safety training for those new to rock climbing.

Dr. Feng is married to Sophia Feng and they have one child.
George C. S. Chan was born in Hong Kong Special Administrative Region and grew up in Honolulu, Hawaii. He graduated from the University of Hawaii at Manoa with a B.S. degree in Civil Engineering in December 1987. After graduation, he ventured to San Diego, CA where he started his engineering career with Nolte and Associates as a junior engineer. In 1993, he moved back to Hawaii and began his federal civilian service with Naval Facilities Engineering Command (NAVFAC) working as a design engineer. Over time, he acquired experience in environmental engineering and was in charge of several remediation projects in Guam and the safe drinking water program for naval installations throughout the Pacific. Later, he became a Regional Operations Officer overseeing all design and construction projects for Marine Corps bases in Hawaii. In 2003, he and his family relocated to Japan where he continued his federal service but with the US Army Corps of Engineers (USACE) working in areas of project management, Architect-Engineer contracts management, and technical services support. After 6 years in Japan, he and family relocated back to Hawaii and he returned to NAVFAC to serve as a Business Analysis Officer. In 2010, he accepted a promotion to be a program manager with the USACE’s Pacific Ocean Division where he supports a $10.7 billion US Army program that consolidates and re-stations troops in Korea.

Commander Chan has been a reserved Naval Officer for more than 20 years. His significant accomplishments include: In 2000, LT Chan led a team of military and civilian engineers to restore drinking water treatment facilities in East Timor after post-election violence. In 2004, LCDR Chan deployed to Iraq where he served as the Operations Officer of a 22-person expeditionary team responsible for civil-military reconstruction and for training and advising local ministers. He established processes for contract awards and payments and led his team to award 120 projects worth more than $100 million in a 4-month period. In 2013, Commander Chan was deployed to Afghanistan where he served as a Program Manager responsible for supervising a joint staff of Air Force, Navy, Army and civilian personnel, training and advising Afghan senior military and ministerial officials, and managing a $5.5 billion infrastructure construction program aimed at enabling the 195,000-person strong Afghanistan National Army (ANA). He completed a $9 million Presidential Information Center and managed a 3-phased, $200 million development of the ANA’s National Defense University which will train over 10,000 officers and enlisted on a 100+ acre site.

Commander Chan was awarded the Defense Meritorious Service Medal for his service Afghanistan, the Meritorious Service Medal for his service in Iraq, the Army Commendation Medal for valor in combat, and Navy Commendation Medals for his work in East Timor and in Korea. He also received the Superior Civilian Service Award for accomplishments achieved in Japan. He is a member of the American Society of Civil Engineers and the Society of American Military Engineers. He is a registered professional engineer in the states of California and Hawaii and he is certified Project Management Professional.

He is married to the former Lisa Aizawa and has two children, Kelsey (21) and Bryson (18).
Dr. Paul Shang's 30-year career in the service of the U.S. Navy is distinguished by his technical achievements as a scientist, engineer, and manager. His career-long achievements as a technologist and manager are best demonstrated by the superior stealth performance of today's U.S. naval fleet.

Since joining the Naval Surface Warfare Center, Carderock Division in 1984, Dr. Shang has held a variety of technical, program and organizational assignments with increasing responsibility. Currently, he is the Head of the Ship Signatures Department, NSWC Carderock Division. The Department is comprised of nominally 525 scientists, engineers and support staff, operates on an annual budget of nearly $250 million, has five (5) large support detachments and facilities geographically distributed across the United States and has personnel supporting Navy operations around the world. In support of the Department mission, he provides vision and leadership for research and development efforts to measure, assess, understand and control all spectra of signatures. He is responsible for the conduct of multidisciplinary research, integrating all aspects of signature control and mitigation technologies for application to all current and future ships and submarines of the U.S. Fleet.

Dr. Shang received his bachelor’s degree and Ph.D. from Rutgers University, both in mechanical engineering. He is a Fellow of the American Society of Mechanical Engineers and a recipient of the Bronze Medal from the National Defense Industrial Association.
CIE-USA and 2015 AAEYOY Executive Committee would like to express our sincere appreciation to the following for their sponsorship, commitment and support.

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About CIE-USA
2015 National Council

Founded in 1917, the Chinese Institute of Engineers, USA (CIE-USA) is a non-profit professional organization of Chinese-American engineers, scientists and other professionals. The objectives of CIE-USA are to promote Science, Technology, Engineering, and Mathematics (STEM) in all communities across the United States, and provide recognitions to the Asian-Pacific American (APA) professionals at the national level.

The National Council of CIE-USA consists of seven chapters: Dallas-Fort Worth, New Mexico, Great New York, San Francisco, Seattle, Southern California, and the Overseas Chinese Environmental Engineers and Scientists Association. CIE-USA regularly sponsors and hosts conferences and engineering & scientific related activities at the national and international level.

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Executive Committee/Program Volunteers

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2014 Asian American Engineer of the Year Award Gala
March 1, 2014 at San Francisco, California

2014 AAOEY Distinguished Science and Technology Honoree
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2014 AAOEY Distinguished Lifetime Achievement Award Honoree
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Chinese Institute of Engineers – USA (CIE-USA) 2014 and 2015 AAOEY Teams

Awardees and Guests from Boeing Company at 2014 AAOEY Gala
DiscoverE Future City Competition
CIE-USA Sponsors “Best Residential Zone” Award (2002-2014)

DiscoverE Future City Competition is the only engineering program of its kind for students 6th through 8th grade. Teams of students design and create futuristic cities to address issues associated with resource planning and infrastructure in our communities. Paired with engineer-mentors, teams conduct research, practice using SimCity™ software, build 3D scaled physical models, and present their results. In 2014, CIE-New Mexico sponsored a new regional competition held in Albuquerque, New Mexico.

Dr. Amy Sun of CIE-USA (left) presented the Best Residential Zone Award to the 2014 winner team – J.M. Alexander Middle School from North Carolina.
Introducing The New Face of Engineering 2015
Professional/College Edition Nominees

PROFESSIONAL EDITION
New Faces of Engineering - Professional Edition recognizes the outstanding talents, skills and abilities our next generation of engineering leaders (age 30 or younger) have shown on projects that significantly impact public welfare or further professional development and growth.

Engineers improve society’s quality of life, and this year’s recognition of young engineers at the cutting edge of their profession – the annual New Faces of Engineering Professional Edition – finds women and men truly changing the world for the better in remarkable ways. From energy resource conservation and improving air quality to sustainable design and national security, the New Faces of Engineering are working to solve pressing issues and make a difference on a global scale.

Greg Nichols, a staff engineer with Oncor Electric Delivery LLC in Irving, Texas, who was nominated by CIE/USA, has been assigned to work on various complex projects that push both technical and organizational boundaries within the utility industry. He is currently working on major projects that revolve around the Customer Outage Experience, which strives to provide timely, consistent, and accurate information to customers during an outage. He is the lead architect on a new technology that seeks to improve how Oncor calculates an estimated time of restoration for outages that occur on distribution facilities. In order to accomplish this task, Nichols is working closely with a series of vendors on a project to develop software that uses real time data points in his mathematical model. If successful, Oncor would be one of the first utilities in the country to provide reliable, accurate estimated times of restoration to their customers.

In addition to these special projects, Nichols also leads two software engineers on a SmartGrid Reporting tool and is responsible for providing reporting concepts and designs, interfacing with upper management on reporting needs, and managing the day to day activities for both engineers. Also active in his community, he volunteers with the Learning for Life program, Operation Christmas Child, and March of Dimes. He holds a bachelor’s degree in electrical engineering from Texas Tech University.

COLLEGE EDITION
New Faces of Engineering - College Edition recognizes the best and brightest whose academic successes and experiences in the engineering field have positioned them to make an impact.

Lynze Cheung—4th Year at University of California, Irvine. Major in Environmental Engineering. Member of American Academy of Environmental Engineers (AAEES), American Society of Civil Engineers (ASCE) and Chi Epsilon Civil and Environmental Honor Society. Involved in E-Week to Inspire Young Audiences. Participated in Volunteering and Fundraising Activities and UCI Water PIRE Program.

Aidan Alar—5th Year at University of North Carolina-Charlotte. Major in Civil Engineering. Member of ASCE and NSPE. 2015 Steel Bridge Competition –Connection Design Captain. 2014 Carolinas Conference Member: Quiz Bowl and Surveying Team. Habitat for Humanity 2013 Alternate Spring Break Member. Intern for a Construction Firm.

Aaron Zhang—3rd Year at University of California, Berkeley. Major in Mechanical Engineering. Member of Key Club-Community Service. Served in US Air Force Where He Maintained and Repaired Machines for a Diesel Power Plant in Iraq and Interacted with Real World Applications of Mechanical Engineering.

For more information, visit www.DiscoverE.org
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Promoting Common Development

唯一经国务院批准召开规模最大、规格最高，针对外国专家组织、培训机构、专业人才开放的国家级、国际性的人才与智力交流盛会——第十三届中国国际人才交流大会将于2015年4月18-19日在深圳举行。“留学人员展区”是本届大会的最大亮点之一，突出“聚全球英才，促中华腾飞”的宗旨，开展“创智杯”全球华人创新创业项目展示及对接，是招聘海外高层次人才、引进高新技术项目最大的资源、资源、交流和合作的最大平台。

“留学人员展区”位于会展中心主场馆（1号馆），面积2000平方米，展区内设置5个模块主题展示专区：高校和科研院所人才招聘专区、知名企业人才招聘专区、政府和留创园展示专区、风投机构展示专区、“创智杯”全球华人创新创业项目推介专区，共计48个展位，80个展板。

欢迎有意谋求深圳职位及发展高科技项目高层次专业人员参会。大会主办方将安排携带项目的参会人员对接深圳相应的高科技园区。参展及参会人员请分别填写参会申请表及参展申请表。大会主办方将负责参会者的食宿，符合条件的人员将获得相应的差旅补助。

中国·深圳
China·Shenzhen
2015年4月18—19日
April 18-19, 2015
深圳会展中心
Shenzhen Convention & Exhibition Center

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引智专业会议

第二届新兴产业创新大会
全球总裁创新峰会
跨国技术转移大会深圳峰会
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Ready to roll

From exhilarating peaks and lush valleys to perfect lakes, Taiwan offers cyclists some of the world's most spectacular scenery for two-wheeled discovery, all accessible on hundreds of miles of smooth road, protected cycle trails and off-road routes. For relaxed riders or athletic adventurers, there's no better place to explore pristine nature and breathtaking vistas – there are even bike-friendly hotels and restaurants where bikers can pause for refreshment, all while enjoying the nation's famously warm welcome and fabulous food.

The Heart of Cycling

A TTB advertisement

Rob Schneider

Coastal road, Hualien
Emerald cliffs lapped by a glittering sea offer cyclists unforgettable panoramas on Highway 9.
Beautiful scenery, indigenous culture and diverse ecology are several of the reasons behind Sun Moon Lake’s inclusion as one of CNN’s 10 best breathtaking cycling routes.

Ready to roll
From exhilarating peaks and lush valleys to perfect lakes, Taiwan offers cyclists some of the world’s most spectacular scenery for two-wheeled discovery, all accessible on hundreds of miles of smooth road, protected cycle trails and off-road routes. For relaxed riders or athletic adventurers, there’s no better place to explore pristine nature and breathtaking vistas – there are even bike-friendly hotels and restaurants where bikers can pause for refreshment, all while enjoying the nation’s famously warm welcome and fabulous food.

Sun Moon Lake

www.taiwan.net.tw
AAEOY (www.aaeoy.org) stands for Asian American Engineer of the Year, an annual recognition event on the national platform to honor the most distinguished professionals of Asian culture heritage. As part of the DiscoverE Engineers Week (EWeek) Program, AAEOY event is sponsored by the CIE-USA, a national professional organization founded in 1917. Since first introduced in 2002, AAEOY becomes a prestigious and important forum for Corporate America, Academia, and Government entities in the field of STEM (Science/Technology/Engineering/Mathematics) to recognize outstanding Asian American professionals for their leadership, technical achievements and remarkable public services.

Since 2002, hundreds of Asian-American professionals from leading US technology corporations, prestigious research institutions as well as US Armed Forces have been selected as recipients of the AAEOY prestigious Award. The past awardees included Nobel Laureates, academia, key corporate executives and astronauts.

Besides recognizing outstanding Asian American engineers and scientists from across the country, AAEOY Award also honors and celebrates the achievements of Asian Americans of global stature and influence with the Distinguished Awards. The distinguished awardees have served as role models and a source of inspiration for the STEM community as a whole. Many internationally known individuals have received these Distinguished Awards at the AAEOY events since 2002.
2015 Asian American Engineer of the Year
Technical Symposium

Session Layout

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<td>Miami</td>
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<td>4A STEM Competition</td>
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<td>(CIE-SoCal)</td>
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<td>11:30 AM - 1:00 PM</td>
<td>Lunch (on your own)</td>
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<td>Nobel Prize Laureate)</td>
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<td>2:00 - 3:15 PM</td>
<td>1B Aerospace (SCAAE/COAA)</td>
<td>2B Civil/Transportation</td>
<td>3B Life Sci/Bio-med</td>
<td>4B STEM Competition</td>
<td>5B LEAP/STEM (CESASC)</td>
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<td>(OCCSEA/ICTPA)</td>
<td>(SCMJ/CSA)</td>
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<td>3:15 - 4:30 PM</td>
<td>1C IT/Computer Sci (CCA)</td>
<td>2C Environ/Energy (SCCAEPA/OCEESA)</td>
<td>3C Social Science (CAPS/AAPA)</td>
<td>4C STEM Competition</td>
<td>5C Corporation Presentations</td>
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<td>JPL AAC)</td>
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<td>4:30 - 5:00 PM</td>
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<td>Alumni Reunion/Networking</td>
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Sessions sponsored by the following Associations

1B Society of Chinese-American Aerospace Engineers (SCAAE)
Chinese-American Oceanic and Atmospheric Association - SoCal Chapter (COAA)

1C Chinese-American Computer Association (CCA)
JPL Asian American Council (JPL AAC)

2B International Chinese Transportation Professionals Association - SoCal Chapter (ICTPA)
Overseas Chinese Civil and Structural Engineering Association (OCCSEA)

2C Southern California Chinese-American Environmental Protection Association (SCCAEPA)
Overseas Chinese Environmental Engineers and Scientists Association (OCEESA)

3B Southern California Mount Jade (SCMJ)
Chinese Scholars Association (CSA)

3C Chinese Association of Professional Society (CAPS)
Asian American Professional Association (AAPA)

4ABC Chinese Institute of Engineers-USA/Southern California Chapter (CIE-SoCal)

5B Chinese-American Engineers and Scientists Association of Southern California (CESASC)

5C Chinese Institute of Engineers-USA (CIE-USA)
Technical Symposium - Program Schedule

**STEM Competition**
Room: Boston + Atlanta, Moderator: Mr. Jay Yoshinaga
9:00 am – 2:00 pm  STEM and Symposium Registration
10:00 am – 4:30 pm  STEM Presentation and Poster Competition

**Plenary Session (1A)**
Room: Imperial Ballroom, Moderator: Dr. Yue Rong
1:00 – 1:10 pm  Opening Remarks  
Dr. Yue Rong and Dr. Jerry Huang
1:10 – 1:50 pm  Keynote Speech: “Invention of Blue LED Laser and Solid State Light”  
Dr. Shuji Nakamura (2014 Nobel Prize Laureate)

**Parallel Session 1B - Aerospace**
Room: Houston, Moderator: Mr. Tony Pan and Dr. Jonathan Jiang
2:00 – 2:25 pm  “Journey to the Planets and Beyond”  
Dr. Dankai Liu
2:25 – 2:50 pm  “Using NASA Space Sensors for Earth Sciences Studies”  
Dr. Jonathan Jiang
2:50 – 3:15 pm  “Aftermarket Reliability Engineering Challenges in Aerospace Industry”  
Dr. Peng Wang

**Parallel Session 2B - Civil Engineering/Transportation**
Room: St. Louis, Moderator: Dr. Xiaoyun Wu and Dr. Chung Xiao
2:00 – 2:25 pm  “Overview of the Application of Big Data in Urban Transportation Planning”  
Dr. Jinghua Xu, Fehr & Peers
2:25 – 2:50 pm  “Welcome to Green Light Age: the Trend of Traffic Operation in Urban Area”  
Mr. Jason Xu, Stantec
Mr. Haowei Hou, President of CREEC USA

**Parallel Session 3B - Life Science/Bio-medical Engineering**
Room: New York, Moderator: Dr. Yixian Yang and Dr. Sheng-He Huang
2:00 – 2:25 pm  “Quest for Durable Disease Control by Induction of Optimal Effector T Lymphocytes in Cancer Patients”  
Dr. Zhiyong Qiu, CSA Board Director
2:25 – 2:50 pm  “Integrated Ultrasound and Optic/Photoacoustic Imaging system for Biomedical Applications”  
Professor Qifa Zhou, USC
2:50 – 3:15 pm  “Magnetic Resonance Imaging of Atherosclerosis”  
Dr. Debiao Li, Cedars-Sinai
Technical Symposium - Program Schedule

Parallel Session 5B - LEAP/STEM
Room: Miami, Moderator: Dr. Yutao He
2:00 – 3:15 pm  “Leadership, Excellence, Aspiration, Platform (LEAP)”

Parallel Session 1C - IT/Computer Science
Room: Houston, Moderator: Mr. Chung Chen
3:15 – 3:40 pm  “Emerging IT Technologies Trends for 2015”
   Dr. Chun-I P. Chen, President, IT & Management Services
3:40 – 4:05 pm  “Cloud Computing and Big Data in China”
   Dr. Peter Zhang

Parallel Session 2C - Environmental/Energy
Room: St. Louis, Moderator: Dr. Rebecca Chou and Dr. Charles Cheng
3:15 – 3:40 pm  “The Engineering Story of Beach Water Quality”
   Dr. Yiping Cao
3:40 – 4:05 pm  “Earthquake Hazard Mitigation for Structures Utilizing Seismic Protective Devices and Structural Control Technology”
   Dr. Wang Xi, Gouvis Engineering Consulting Group
4:05 – 4:30 pm  “Leadership in Energy & Environmental Design (LEED) Introduction”
   Mr. Tachen Lee, Taylor Design

Parallel Session 3C - Social Science
Room: New York, Moderator: Dr. Kangshi Wang and Ms Daphne Ng
3:15 – 3:40 pm  “Success Factors for Asian American Professionals”
   Mr. Pokil Wong, Asian American Professionals Association
3:40 – 4:05 pm  “Southern California Chinese American Political Engagement in the past Three Decades”
   Dr. Chuching Wang, CAPS
4:05 – 4:30 pm  “Positive Encouragement Builds a Better Relationship between Parents and Children”
   Mr. Robert Liu, East Los Angeles College

Parallel Session 5C - Corporation
Room: Miami, Moderator: Dr. Yutao He
3:15 – 4:30 pm  Corporation Presentation and Show
   Boeing, Lockheed Martin, Sandia National Laboratories, Navy, Texas Instruments, etc.

Alumni Reunion/Networking
Rooms: Houston, St. Louis, New York, Miami
4:30 – 5:00 pm  Alumni Associations and Social Networking
Announcing
2016
Asian American Engineer of the Year (AAEOY)
Award Banquet

Hosted by

CHINESE INSTITUTE OF ENGINEERS - USA
GREATER NEW YORK CHAPTER

and
CIE – USA National Council

on
Saturday, March 12, 2016
at
Hyatt Regency New Brunswick

Contact: Allen C. Chen (陳政仁) at c.j.chen@ieee.org
National Council Vice Chair 2014
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Northrop Grumman believes in recognizing achievements. We proudly congratulate Katherine Pendergraph on receiving the 2015 Asian American Most Promising Engineer of the Year Award.

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Congratulations to Dr. Naveed M. Hussain as the 2015 Asian American Executive of the Year Award recipient, Dr. Anne Kao as the 2015 Asian American Engineer of the Year Award recipient, and Dr. Phillip T. Chiu as the 2015 Asian American Most Promising Engineer of the Year Award recipient. Your relentless passion to set new boundaries in technology, quality and value in everything we do inspires us.

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