

# Asian American Engineer of the Year Award

March 12, 2016, Hyatt Regency, New Brunswick, NJ



Chinese Institute of Engineers-USA  
[www.cie-usa.org](http://www.cie-usa.org)



# DREAM BIGGER FOR THE NEXT CENTURY

Congratulations to our 2016 Asian American  
Engineer of the Year Award recipients:

**Prat Kumar**

Executive of the Year

**Ken Li**

Engineer of the Year

**Steven Chun**

Promising Engineer



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**Dr. Allen C. Chen**

*Ph.D., P.E.*

*CIE-USA Chairman and  
AAEOY 2016 Co-Chair*

## **CIE-USA Chairman's Remarks**

On behalf of the CIE-USA and the 2016 AAEOY Executive Committee, I would like to welcome all of our honored guests, award recipients, sponsors, officials and CIE-USA National Council representatives to the 2016 AAEOY Award Ceremony and celebration of DiscoverE Engineers Week.

Asian American engineers have emerged as a major technological driving force in the U.S. Their contributions have transformed the landscape of American academia and global industries. As President Obama noted in his congratulatory letter, we engineers and scientists have driven our Nation to tinker, innovate, and re-imagine the status quo. Our accomplishments have made this world seemingly more efficient, better, smaller and flatter.

The annual "Asian American Engineer of the Year" award was first introduced in 2002 to recognize outstanding Asian American individuals for their contributions in science and engineering during the National Engineers Week. It is my great honor and privilege tonight to announce two Distinguished Award Recipients for 2016. Dr. Manjul Bhargava, a R.Brandon Fradd Professor from Princeton University, is the recipient of the Distinguished Science & Technology Award. And Dr. Henry T. Yang, Chancellor and Professor of University of California, Santa Barbara is the recipient of the Distinguished Lifetime Achievement Award. Later this evening, we will present AAEOY Awards to 12 esteemed Asian American engineers and executives in recognition of their outstanding achievements.

I would like to express my sincere gratitude to all who have contributed to the awards process, either by serving on the Executive Committee or by submitting the exemplary candidates and nominees. Let me also share my heartfelt appreciation to all of our sponsors for their generosity to make this award ceremony possible.

Thank you again and I hope you enjoy the evening.





**Dr. Yew-Huey Liu**  
AAEOY 2016  
*Co-Chair Message*

On behalf of the 2016 Asian American Engineer of the Year (AAEOY 2016) executive committee, it is my honor to welcome all the distinguished guests, honorees, sponsors, community leaders, CIE-USA members, and friends to New Brunswick, New Jersey, for the 15th National AAEOY Awards Ceremony.

The 2016 AAEOY is hosted by the Chinese Institute of Engineers – Greater New York Chapter. This year, our program consists of a Friday tour, a Saturday afternoon technology symposium, and an evening banquet. Our Friday heritage program consists of a guided tour of the Princeton Plasma Physics Laboratory and the AT&T Global Network Operations Center. The Saturday afternoon technical symposium is sponsored by Boeing, and symposium speakers include this year's awardees and past year's awardees, as well as renowned scholars. In addition, we have two afternoon sessions on leadership, Innovation, and entrepreneurship.

Many thanks to our awards nomination committee: this year, we have 14 award winners, twelve of which are nominated by our corporate sponsors, and two distinguished awards. They will be recognized at the evening banquet.

I would like to express my highest gratitude to all the sponsors and supporters. It would not be possible without your generous and continuous support! I would also like to thank all the volunteers, especially our young friends from Rutgers University.

Finally, I would also like to congratulate Boeing's centennial celebration – 100 years of Boeing. Like Boeing, CIE-USA will be celebrating our own centennial next year. Asian American engineers and scientists have contributed to the success and development of science and technology in the United States. It is our duty to continue this achievement and set role models for our next generation.

Let's enjoy tonight's banquet, and push ourselves to achieve higher.





## **Award Banquet Keynote Speaker**

### **Mr. Tom Pieronek**

*Vice President, Basic Research  
Aerospace Systems  
Northrop Grumman Corporation*



Tom Pieronek serves as vice president of Basic Research for the company's Aerospace Systems sector. He is responsible for all aspects of basic research strategy, development and operations; enabling fundamental scientific advancements in alignment with Northrop Grumman Aerospace System's core competencies. His role includes overseeing the expansion of efforts to grow new and deeper collaborations with external researchers, with a focus on university academia and industry research experts within and beyond the aerospace and defense industries.

Mr. Pieronek has thirty years of technical and programmatic experience in the aerospace industry. Prior to his current role Mr. Pieronek served as the director of Research and Technology for Northrop Grumman Aerospace Systems. In this role he was responsible for integrating, growing and managing a portfolio of advanced technologies for both air and space applications. For more than half of his career he has been closely associated with technology development and the U.S. Government science and technology community. His development experience runs from self-contained technologies (thin film amorphous silicon solar cells, flywheels, etc.) through major flight programs (Space Tracking & Surveillance System). His technical background is in electromagnetic environmental effects.

Mr. Pieronek holds a bachelor's degree in electrical engineering from the University of Notre Dame and a master's degree in engineering management from the University of Southern California (USC). His continuing education in systems architecting included a year as a Presidential Fellow at the USC Leadership Institute.



**DiscoverE Engineers Week 2016  
Asian American Engineer of the Year Award Banquet  
Hosted by CIE-USA  
PROGRAM**

**Afternoon Program**

12:30 pm – 2:30 pm	Keynote Speech and Plenary Session	<b>Dr. Pratyush Kumar,</b> <b>President, Boeing India</b>
2:40 pm – 3:40 pm	Panel I – Leaders in Engineering	Dr. Tien-Jen Cheng
3:40 pm – 4:40 pm	Panel II – A New Generation of Engineers in Innovation and Entrepreneurship	Dr. Tien-Jen Cheng
2:40 pm – 4:40 pm	Robotics Demonstration	Dr. Howard Chen

**Evening Program**

4:00 – 5:45 pm	VIP Reception	Dr. Wen Lin
5:00 – 5:50 pm	General Reception	
6:00 pm	Grand Ballroom Open	
6:15 pm	Master of Ceremony Announcement to Be Seated	Phil Cunningham
6:20 pm	Master of Ceremony Welcome	Phil Cunningham
6:24 pm	Posting of the Colors	Cadets from NJ Colts Neck High School Naval Junior ROTC
6:27 pm	America the Beautiful National Anthem	Gregory Penczak, Jr Grace Huegel
6:34 pm	Award Ceremony Opening Remark	Dr. Allen C. Chen
6:39 pm	Acknowledgement of Congratulatory Letters and VIPs	Dr. Allen C. Chen
6:49 pm	Boeing 100 <sup>th</sup> Anniversary Celebration	
6:59 pm	Dinner	
7:44 pm	Keynote Speech	Tom Pieronek, Vice President Northrup Grumman Corp.
7:59 pm	Presentation of Awards -- Part I	
8:17 pm	Distinguished Science and Technology Award	Dr. Manjul Bhargava
8:27 pm	Presentation of Awards – Part II	
8:51 pm	Distinguished Life Time Achievement Award	Dr. Henry Yang
9:00 pm	Presentation of Awards – Part III	
9:24 pm	Closing Remarks	Dr. Yew-Huey Liu
9:29 pm	Plaque Presentation to 2015 AAEOY Hosting Chapters	Dr. Yew-Huey Liu
9:33 pm	2017 AAEOY Announcement	Dr. Allen C. Chen
9:35 pm	Door Prize Drawing	Phil Cunningham
9:40 pm	Adjourn	



THE WHITE HOUSE

WASHINGTON

February 16, 2016

I send greetings to all those observing Engineers Week 2016.

For centuries, the ingenuity of the American spirit has driven our Nation to tinker, innovate, and reimagine the status quo. A constant restlessness to secure progress has sustained our country's greatest minds—enabling them to illuminate our cities and towns with electricity; build tall, majestic structures that touch our sky; send astronauts to the moon; and develop an Internet that brings all of humanity closer together.

The future of our world depends on a commitment to scientific and technological advancement and the unwavering curiosity of our youngest minds. Like generations before them, our country's young people will face challenges, but they will overcome them with the same perseverance and spirit of restless inquiry that has guided our Nation forward since its beginning.

This Engineers Week, as we reflect on the accomplishments of the trailblazing women and men who built an America that is strong, resilient, and on the quest for the next big thing, we also encourage all our daughters and sons to learn, grow, and create the realities that give life to their dreams.





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CHRIS CHRISTIE  
GOVERNOR

KIM GUADAGNO  
LT. GOVERNOR

March 12, 2016

Dear Friends:

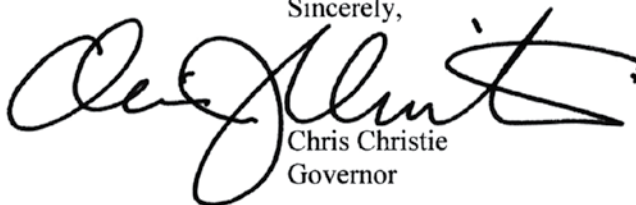
On behalf of the State of New Jersey, I am pleased to extend greetings to all those gathered for the Asian American Engineer of the Year Award Banquet, hosted by the Chinese Institute of Engineers-USA.

I am proud to be the Governor of the one of the most diverse states in the Nation. The Asian American community has been vital to our State's prosperity and cultural diversity. I commend the AAEOY and CIE-USA for their commitment to recognizing those that make a difference in the engineering community for championing innovation and professionalism.

I would also like to extend special congratulations to all of the organizations and individuals who are being honored tonight. The service provided by each of the honorees are vital to the success of the State and nation, and I commend you all for your dedication to your fields.

Best wishes for an enjoyable evening.

Sincerely,



Chris Christie  
Governor



Chinese Institute of Engineers-USA  
[www.cie-usa.org](http://www.cie-usa.org)



State of South Carolina  
Office of the Governor

NIKKI R. HALEY  
GOVERNOR

1205 PENDLETON STREET  
COLUMBIA 29201

Dear Friends,

On behalf of the people of South Carolina, I am pleased to welcome you to the 2016 Asian American Engineer of the Year Award (AAEOY) event.

The AAEOY Award Program offers an exciting opportunity to come together to recognize the valuable contributions of our nation's outstanding Asian-American engineers and scientists to the engineering profession. Like the distinguished honorees before them, this year's award recipients are the driving force behind the technologies that are enriching lives from the Palmetto State to nations around the world. Their relentless pursuit of excellence is sure to have a powerful impact for generations to come.

Michael and I wish you the best for a great celebration and continued success going forward. God bless.

My very best,

A handwritten signature in cursive script that reads "Nikki".  
Nikki R. Haley

NRH/ld



CORY A. BOOKER  
NEW JERSEY



UNITED STATES SENATE  
WASHINGTON, D. C. 20510



January 27, 2016

Dear Friends,

It is a pleasure to extend my warmest greetings and congratulations as you celebrate your annual Asian American Engineer of the Year Award program. We are pleased to have you in New Brunswick this year.

For over a decade, the AAEOY program has recognized outstanding Asian American engineers and scientists from across the country. The program has helped to foster collaboration and promote diversity and communication among engineers and scientists. Tonight's celebration is a well-deserved acknowledgement of the most distinguished professionals, and I am honored to send my best wishes for your continued success.

Again, congratulations.

Sincerely,

Cory A. Booker  
United States Senator



Chinese Institute of Engineers-USA  
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**MAZIE K. HIRONO**  
HAWAII

**United States Senate**  
WASHINGTON, DC 20510-1104

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**MESSAGE FROM MAZIE K. HIRONO**  
**UNITED STATES SENATOR**

In celebration of the  
Chinese Institute of Engineers - USA's  
Asian American Engineer of the Year Award

March 12, 2016

*Aloha* and welcome to the attendees of the Chinese Institute of Engineers USA's Asian-American Engineer of the Year Award program. This program recognizes the invaluable contributions of Asian-American engineers, scientists, and professionals to our nation's growth and encourages new generations of future engineers to pursue their dreams.

Asian-Americans have formed a vital part of our nation's science and engineering industries, contributing to groundbreaking advancements both at home and abroad. By organizing youth math and science programs, holding development seminars, and hosting international conferences, your work is instrumental in building interest and skills in science, technology, engineering, and math (STEM) fields that are vital to our nation.

As the fastest-growing demographic in the United States, developing interest among Asian-Americans to pursue careers in STEM fields is critical to our future. I would like to commend the Chinese Institute of Engineers USA's program to recognize outstanding talent in the Asian-American STEM community as an important incentive to engineers everywhere. My warm regards for an enjoyable banquet and a successful year ahead.

Sincerely,

*Mazie K. Hirono*

Mazie K. Hirono  
United States Senator

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Chinese Institute of Engineers-USA  
[www.cie-usa.org](http://www.cie-usa.org)





**JUDY CHU, Ph.D.**  
27TH DISTRICT, CALIFORNIA

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March 12, 2016

Chinese Institute of Engineers-USA (CIE-USA)  
5 Takolusa Drive  
Holmdel, New Jersey 07733

Dear Friends,

I would like to extend a warm welcome to all those who have gathered for the Asian American Engineers of the Year (AAEOY) 2016 Award Program at the Hyatt Regency Hotel in New Brunswick, New Jersey.



Founded in 1917, the Chinese Institute of Engineers-USA (CIE-USA) is a nationwide professional organization of Chinese-American engineers and scientists. CIE-USA promotes science, engineering, technology and mathematics (STEM) across the United States, while providing multiple opportunities and connections between its members.

I applaud CIE-USA for recognizing outstanding Asian American professionals during National Engineers Week. The contributions of these individuals have brought monumental breakthroughs in science and technology, improving the lives of many.

On behalf of the United States House of Representatives and the people of the 27th Congressional District, I offer my best wishes to CIE-USA and the attendees of the AAEOY 2016 Award Program.

Sincerely,

**JUDY CHU, Ph.D.**  
Member of Congress, 27<sup>th</sup> District



Chinese Institute of Engineers-USA  
[www.cie-usa.org](http://www.cie-usa.org)

TED LIEU  
33RD DISTRICT, CALIFORNIA

415 CANNON HOUSE OFFICE BUILDING  
WASHINGTON, DC 20515  
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Congress of the United States  
House of Representatives  
Washington, DC 20515-0533

March 12, 2016



Dear Friends,

Please accept my warmest wishes and congratulations as you gather at the Chinese Institute of Engineers, USA (CIE-USA)'s Asian American Engineer of the Year (AAEOY) 2016 Award Ceremony.

I am delighted to join the CIE-USA in honoring the 2016 AAEOY Award Recipients during National Engineers Week in recognition of their contributions to society and the inspiration they give to future generations of culturally diverse leaders in STEM fields.

Our community owes the CIE-USA and its Asian American Engineers of the Year a debt of gratitude for their tireless hard work and dedication.

Congratulations and best wishes for a memorable event.

Sincerely,

Ted W. Lieu  
Member of Congress

Chinese Institute of Engineers-USA  
[www.cie-usa.org](http://www.cie-usa.org)





HOUSE OF REPRESENTATIVES  
WASHINGTON, D. C. 20515

DORIS O. MATSUI  
6TH DISTRICT, CALIFORNIA



January 2016

Greetings to all of the participants in the 2016 Asian American Engineer of the Year Award program (AAEOY).

I am pleased to recognize these outstanding men and women from across the country who excel in the field of engineering. I firmly believe that technological innovation is the key to growth and prosperity, and our engineers are paramount to this innovation. As we continue to recognize the vital role of engineering, we must also work to ensure that all members of our society are represented in this profession. A diversity of perspectives is crucial to finding creative solutions and advancing technological progress. For these reasons, I commend the Chinese Institute of Engineers-USA for their work in fostering collaboration and promoting diversity in the engineering profession.

I appreciate this opportunity to express my congratulations with this extraordinary community. I hope you all enjoy this wonderful event.

Sincerely,

*Doris O. Matsui*

DORIS O. MATSUI  
Member of Congress



Chinese Institute of Engineers-USA  
[www.cie-usa.org](http://www.cie-usa.org)



RANKING MEMBER  
COMMITTEE ON  
ENERGY AND COMMERCE

FRANK PALLONE, JR.  
6<sup>TH</sup> DISTRICT, NEW JERSEY

**Congress of the United States**  
**House of Representatives**  
**Washington, DC 20515**

March 12, 2016

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Dear Friends:

It is my pleasure to write today in celebration of the Chinese Institute of Engineers-USA Asian American Engineer of the Year Award Program and to join you in congratulating this year's honorees. I am pleased to learn that the 2016 Program is being held in New Brunswick, which I am proud to represent as part of the Sixth Congressional District.

For nearly 100 years, the Chinese Institute of Engineers-USA has promoted the science, technology, engineering and mathematics fields and I would like to thank you and all those gathered this evening for your support of these important fields. Each of tonight's awardees exemplifies excellence in their professions and I commend them for their contributions to the field of engineering.

Once again, please accept my congratulations to each of the honorees and my best wishes for an enjoyable event.

Sincerely,

A handwritten signature in dark ink that reads "Frank Pallone, Jr." in a cursive style.

FRANK PALLONE, JR.  
Member of Congress





## WEST WINDSOR TOWNSHIP

SHING-FU HSUEH, Ph.D., P.E., P.P.  
MAYOR



January 21, 2016

Dear Friends and Colleagues:

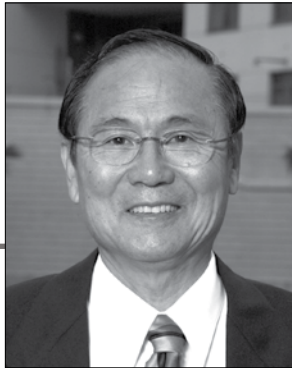
Please accept my sincerest congratulations for the dedication you have shown to the Engineering profession. It is one that is near and dear to my heart. It is an honor to be a part of such an exceptional group of Engineers who are a source of inspiration not only to those here today but to future generations.

Sincerely,

Shing-Fu Hsueh, Ph.D., P.E., P.P.  
Mayor

271 CLARKSVILLE ROAD • P.O. BOX 38 • WEST WINDSOR, NEW JERSEY 08550 • (609) 799-2400 • FAX (609) 936-8912  
WEBSITE: [WWW.WESTWINDSORNJ.ORG](http://WWW.WESTWINDSORNJ.ORG) E-MAIL: [WWT@WESTWINDSORTWP.COM](mailto:WWT@WESTWINDSORTWP.COM)





**Dr. Henry T. Yang**  
*Chancellor  
University of California,  
Santa Barbara*

Henry T. Yang has served as the chancellor of the University of California, Santa Barbara since 1994. He is also a professor of mechanical engineering, and teaches an undergraduate engineering course in finite element structural analysis each year. During his tenure at UC Santa Barbara, the university has received numerous top rankings and global recognitions, including six faculty members winning Nobel Prizes since 1998.

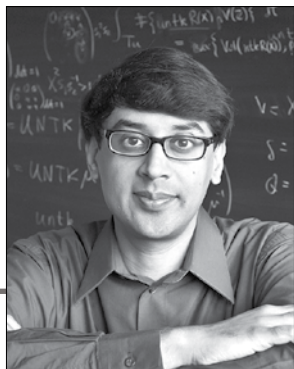
Dr. Yang was formerly the Neil A. Armstrong Distinguished Professor of Aeronautics and Astronautics at Purdue University, where he also served as the dean of engineering for ten years. He is a member of the U.S. National Academy of Engineering and Academia Sinica, and a foreign member of the Chinese Academy of Engineering and the Russian Academy of Engineering. He is a Fellow of the American Institute of Aeronautics and Astronautics, the American Society for Engineering Education, and the American Society of Mechanical Engineers. He has authored or co-authored more than 180 articles for scientific journals, as well as a widely used textbook on finite element structural analysis. He is a popular teacher and graduate advisor, and has won thirteen best teaching awards in the course of his career, including a 2007 honorary distinguished teaching award from UC Santa Barbara's Academic Senate.

He has received a number of other recognitions for his research, teaching, and public service, including honorary doctorates from Purdue University, Hong Kong University of Science and Technology, Taiwan University, City University of Hong Kong, the Chinese University of Hong Kong, West Virginia University, and Hong Kong Polytechnic University; the Benjamin Garver Lamme medal from the American Society for Engineering Education; and the 2008 Structures, Structural Dynamics, and Materials Award from the American Institute of Aeronautics and Astronautics.

Dr. Yang has served on scientific advisory boards for various government agencies. He currently chairs the Thirty Meter Telescope International Observatory, and serves on the Kavli Foundation Board. He is a past chair of the Association of American Universities and the Association of Pacific Rim Universities, and served two terms as a presidential appointee to the President's Committee on the National Medal of Science.

**AAEOY**  
**Distinguished**  
**Lifetime Achievement**  
**Award**





**Dr. Manjul Bhargava**  
Professor  
Princeton University

AAEOY  
Distinguished  
Science and Technology  
Award

Manjul Bhargava is the R. Brandon Fradd Professor of Mathematics at Princeton University, and also holds Adjunct Professor positions at the Tata Institute of Fundamental Research in Mumbai, at IIT-Bombay, and at the University of Hyderabad. He also holds the Stieltjes Chair, an endowed Professorship at Leiden University in the Netherlands. He is recognized worldwide as one of the foremost mathematicians of our times and one of the leading experts in Number Theory, a branch of Mathematics in which he has made several pioneering breakthroughs. Professor Bhargava is also widely acclaimed for his teaching and his efforts to disseminate mathematics and improve mathematics education around the world, not surprisingly making him one of the most sought-after teachers and public speakers in the subject. In addition, he is an accomplished tabla player and classical Indian musician, and holds deep rooted interests in Indian languages, particularly Sanskrit.

Professor Bhargava was born in 1974 in Hamilton, Ontario, Canada, but grew up mostly in Long Island, New York and also spent much time in Jaipur, Rajasthan. He graduated from high school as class valedictorian. He subsequently attended Harvard University where he obtained an A.B. summa cum laude in Mathematics. His seminal work on the factorial function and integer-valued polynomials while a student at Harvard earned him the Frank and Brennie Morgan Prize for the best research in mathematics by an undergraduate student in the U.S.A. He then attended Princeton University to pursue his Ph.D. in mathematics under the advisorship of Andrew Wiles. His Ph.D. thesis broke new grounds on a problem that saw no progress for 200 years and earned him the Blumenthal Award, given to the best Ph.D. thesis written in mathematics anywhere in the world.

After a year each at the Institute for Advanced Study and at Harvard University, only two years after receiving his Ph.D., Bhargava was appointed directly as a Tenured Full Professor at Princeton University (skipping the ranks of Lecturer, Assistant Professor, and Associate Professor), at the age of 28, making him one of the youngest tenured full professors in history. Shortly thereafter, he was also appointed Adjunct Professor at the Tata Institute of Fundamental Research, IIT-Bombay, and the University of Hyderabad, where he continues to spend much time.

His groundbreaking research work in mathematics has included the solution of a problem on integer-valued polynomials posed in 1919 by Polya, a novel generalization of the factorial function, several extensions of the classical composition laws of Brahmagupta and Gauss, a determination of the densities of discriminants of quartic and quintic number fields, a proof of the first known case of the Cohen-Lenstra-Martinet conjectures on class groups, a proof (jointly with Jonathan Hanke) of John Conway's 290-Conjecture, a proof (jointly with Arul Shankar) of the boundedness of the average rank of elliptic curves, and a demonstration that most hyperelliptic curves have no rational points.

His research work has involved the introduction of a number of new techniques and tools into the subject that are opening up whole new areas of mathematical research, including the systematic use of algebraic groups and representations defined over the whole numbers, and new methods in the geometry-of-numbers that have allowed Professor Bhargava to determine the distribution of basic arithmetic objects with respect to their fundamental invariants.

Professor Bhargava has received numerous awards and honors for his work, including the the SASTRA Ramanujan Prize (2005), the Packard Fellowship (2005), the Clay Research Award (2005), the AMS Cole Prize (2008), the Fermat Prize (2011), the Infosys Prize (2012), Election to the U.S. National Academy of Sciences (2013), and Election to the Indian National Science Academy (2014). In addition, Professor Bhargava has also won numerous awards for his teaching, public lectures, and exposition, including the Derek Bok Award, the Vanguard Fellows Award, and the Merten Hasse Prize. In August 2014, Professor Bhargava was awarded the 2014 Fields Medal, considered the highest honor a mathematician can receive. Professor Bhargava is the first mathematician of Indian origin to receive the Fields Medal, known as the "Nobel Prize of Mathematics".

In 2015, Professor Bhargava was awarded the Padma Bhushan from the President of India.





**Dr. Pratyush Kumar**

*President, Boeing India*

*Vice President, Boeing International*

*The Boeing Company*



**Citation of Accomplishment**

Dr. Pratyush Kumar is President of Boeing India with sustained leadership, strategic vision and a proven track record in driving business and political outcomes using technology in the aviation, transportation and health sectors; he is helping to catapult India into the 21st century aerospace ecosystem.

**Biography**

Pratyush (Prat) Kumar is President of Boeing India, the company's most senior in-country leader responsible for strategy development and execution in India. Based in New Delhi, Kumar aligns business priorities, expands the company's footprint, develops customer relationships, and builds partnerships with industry and government stakeholders in the region. He also is a Vice President of Boeing International.

Before joining The Boeing Company in 2012, Kumar held various leadership positions at General Electric in the United States and India including President and CEO of GE Infrastructure in India responsible for GE Aviation, Energy, Water, Oil & Gas and Transportation businesses in the region.

Prior to GE, Kumar founded a Boston-based biotech company in 2002 that developed ultra high throughput cell-sorting devices using microfluidic chips. The company focused on sorting stem cells harvested from bone marrow of cancer patients for autologous transplant.

Kumar earned a bachelor's degree in mechanical engineering from the Indian Institute of Technology Delhi and a doctorate in materials engineering from the Massachusetts Institute of Technology where he also was an industry collegium fellow. His doctoral work developed a theoretical and practical approach to making metal components close to their final shape in one step.

Currently, Kumar is chairman of the Federation of Indian Chamber of Commerce and Industry aviation committee, chairman of Associated Chambers of Commerce of India cyber security council, regional president of Indo-American Chamber of Commerce, and a member of the Executive Council of the Aviation Cooperation Program between India and the United States.

Kumar was born in a remote eastern Indian village with no electricity, roads or running water. He was homeschooled by his grandparents and started his formal education at age 12 when he moved to New Delhi. Kumar overcame an extreme scarcity of resources in his early years to later succeed at the highest levels of academia and industry in India and the United States.

Asian American  
Executive  
of the Year  
Award





**Mr. Srinivas Dixit**

*Director of Finance & Business Operations  
Lockheed Martin*

Asian American  
Executive  
of the Year  
Award

Srini Dixit is the Director of Finance & Business Operations for the Cyber Solutions Program Area in IS&GS Defense & Intelligence Solutions. Cyber Solutions is the premier provider of Missions Systems Cyber Capability to Classified customers and is one of the fastest growing Program Areas within the business. Srini oversees a team of approximately 50 Finance and Business Operations (F&BO) employees and serves as a member of the Cyber Solutions Senior Leadership team. Srini has 20 years of experience, in both the commercial and Aero, Space and Defense industry, and has earned a Bachelor's of Science in Aerospace Engineering from Boston University, an MBA from Carnegie Mellon University, and a Masters in Accounting from American University.

Prior to his current role, Srini served as Director, Ethics and Business Conduct for the Electronic Systems Business Area. As a member of the Executive Vice President Staff, he served in a senior leadership role for the \$12B business, and managed the Ethics and Business Conduct Program for Electronic Systems. Past Lockheed Martin roles include that he was the Business Operations Leader for the Missiles & Fire Control Air & Missile Defense Development Programs; member of the Executive Steering Committee for the Lockheed Martin Council of Asian Americans (CAAL); and Co-chair for the IS&GS Asian American Employee Resource Group (ERG).

Prior to joining Lockheed Martin Srini worked for US Airways, the 6th largest US based international airline, as the Regional Business Manager for the Caribbean and Latin America Division, Manager of Asset Strategy for the Aircraft Leasing and Sales Division and Sr. Financial Analyst. Prior to joining US Airways was an engineering analyst and project lead on several development contracts at United Technologies, Pratt & Whitney and General Dynamics The Electric Boat Corporation.





**Colonel James K. Choung**  
*Office of the Assistant Secretary  
of the Army*



Asian American  
**Engineer**  
of the **Year**  
**Award**

Colonel James K. Choung is currently the Joint Project Manager for Guardian at Joint Program Executive Office for Chemical and Biological Defense (JPEO-CBD).

He is married to Ji Choung & they have three daughters Lizzie, Madeline & Christine.

Colonel Choung was commissioned as a Second Lieutenant in Field Artillery upon graduation from the US Military Academy at West Point. His military education includes Field Artillery Officer Basic & Advanced Courses, Target Acquisition & Survey Course, Command & General Staff College, and Senior Service College (Korea National Defense University). He has a Master's degree in Biochemistry from Boston University School of Medicine & is a graduate of Defense Acquisition University Program Manager's Course. He is also a graduate of the US Army Airborne, Air Assault & Ranger Schools.

He served in various operational units in both command & staff officer positions before becoming an Army Acquisition Officer. He served as Platoon Leader and Artillery Battery Commander, Battalion Operations and Fire Direction Officer, and Assistant Brigade Fire Support Officer. Also, he served as Assistant Professor in the Department of Chemistry at West Point.

His acquisition assignments include Product Manager for Force Protection Systems; Director for Aviation & Intelligence, Electronic Warfare & Sensors and Deputy Director for Missiles, Ammunition & Chemical and Biological Defense at Assistant Secretary of the Army (Acquisition, Logistics, and Technology); Deputy Director for Systems Support, and Assistant Product Manager for Detection for JPEO-CBD; and Army Test & Evaluation Command System Team Chair for Guided Multiple Launch Rocket Systems & High Mobility Artillery Rocket Systems. During his tenure under the JPEO-CBD he has led the development, test, procurement & fielding of Chemical, Biological, Radiological, Nuclear & Force Protection capabilities in support of Operations Iraqi Freedom, Enduring Freedom, and Freedom's Sentinel, and Counter Islamic State of Iraq and the Levant (C-ISIL).





**Dr. David E. Lee**

*Program Manager*

*Engineering & Global Product Development*

*Northrop Grumman Aerospace Systems*

David E. Lee is a program manager and space vehicle systems engineer at Northrop Grumman Aerospace Systems in Redondo Beach, California. Currently, he is the manager for the Integrated Concept Development Facility and is program manager for multiple contracts. As principal investigator, he leads the FSPOT-X (Full Spectrum Power for Optical/Thermal Exergy) Project funded by the Department of Energy's ARPA-E FOCUS Program.

He is the area lead for both thermal power development as well as space tether technologies and systems within Aerospace Systems.

Previously, as a project manufacturing engineer, he supervised production of spacecraft structural components and assembly of space structures. He has developed algorithms and software for real-time simulation of operational radar environments and for modular and virtual manufacturing process control.

His research interests and technical foci include: next generation systems modeling, multi-int data fusion, autonomous systems operations, scalable space architectures, electrodynamic tethers, solar thermal energy production, integrated power and water generation.

As an educator, Dr. Lee is currently the lead instructor for the Spacecraft Systems Design and Analysis as well as the Space Mission Systems Engineering courses offered through UCLA Extension's Astronautical Engineering Certificate Program. He has taught classes on Manufacturing Processes to undergraduate and graduates at UCLA's Mechanical and Aerospace Engineering Department.

Dr. Lee completed his dissertation in Mechanical Engineering through the Integrated Manufacturing Engineering Program for Advanced Transportation Systems at UCLA. He received his B.A. in Mathematics and M.S. in Manufacturing Engineering all from UCLA. He is a Fellow of the American Society of Mechanical Engineers and senior member of the American Institute of Aeronautics and Astronautics. In addition he is a member of ACM, IEEE, INCOSE and NDIA.

Asian American  
Engineer  
of the Year  
Award





**Dr. Rongsheng (Ken) Li**  
*Senior Technical Fellow*  
*The Boeing Company*



### Citation of Accomplishment

Dr. Rongsheng (Ken) Li is a Boeing Senior Technical Fellow with sustained innovation and outstanding achievements in the development of aerospace guidance, navigation and control systems who has been issued more than 40 patents and published nearly three dozen technical papers, as well as sharing his knowledge by teaching university courses to the next generation of technical leaders.

### Biography

Dr. Rongsheng (Ken) Li is a Boeing Senior Technical Fellow and an industry-leading innovator and expert in the development of aerospace guidance, navigation and control systems. With Boeing Research & Technology, Dr. Li is responsible for strategizing, creating, defining and developing advanced guidance, navigation and control technology for The Boeing Company.

Dr. Li has been issued more than 40 patents for his work and published nearly three dozen papers in technical journals and at conferences.

Dr. Li also teaches advanced engineering courses at the University of California, Los Angeles, including Spacecraft Attitude Control, Kalman Filtering & Applications, and System & Software Architecture. Through teaching and mentoring he is developing the next generation of technical leaders.

Previously, Dr. Li was with Boeing Network & Space Systems (formerly Hughes Space and Communications) for 19 years and was a primary developer of the stellar-inertial attitude determination & control system for several of the nation's key space assets.

Earlier in his career, Dr. Li managed the system analysis department at BAE Lear Astronics Corp. responsible for modeling, simulation and design of aircraft flight control, navigation and guidance. Dr. Li was the primary system architect and software developer for several important Global Positioning Systems/Inertial Navigation Systems and flight management systems in the industry.

Dr. Li received his Ph.D. in electrical engineering in 1989 from the University of Southern California and bachelor's and master's degrees in electrical and aerospace engineering in China, where he grew up.

Dr. Li spent only nine years in elementary, middle, and high school without receiving a diploma before attending China's Northwestern Polytechnic University at age 15. Dr. Li was fortunate to be among the first generation of university students after China ended its Cultural Revolution and restored the higher education system.

Dr. Li and his wife are proud parents of two high-achieving sons; one is attending Harvard Medical School and the other is a sophomore at Stanford University.

Asian American  
**Engineer**  
of the **Year**  
**Award**





**Ms. Xiaolin Lu**

*TI Fellow and R&D Manager  
Texas Instruments*

Asian American  
Engineer  
of the Year  
Award

Xiaolin Lu is Texas Instrument Fellow and R&D Manager of TI Kilby Innovation Technology Center Dallas site. She is currently leading the industrial internet research initiative across TI. Before that she is leading a group of talented researchers working on various semiconductor HW/SW technologies in application space of industrial internet, smart grid and ultra-low-power communication systems using TI embedded processors and analog devices.

Xiaolin's technical leadership function covers communication technologies, networking, real-time embedded SW, signal processing, HW/SW partitioning, ultra-low-power with business insights and user experience orientation. Over the last five years, she led a team of researchers worked on the projects which led to in-company "start-ups", customer engagements and revenue/profit impact. She worked on various embedded system and software programs, including SmartNet IoT SW framework, industry 1st OFDM based multi-standard Narrow Band Power Line Communication Systems for AMR/AMI in smart grid, Wireless and Wired Hybrid Sensor Networks for building automation, 802.15.4g Software Defined Radio for Smart Utility Network and out-door long-distance sensors, OS embedded task level power-aware scheduler/analyzer for DVFS and Dynamic Sleep. Before that she also worked on multiple prototypes and products of LTE/Wimax universal OFDM engine, 1st programmable universal broadband MAC processor, Wi-Fi/Bluetooth co-existence and industry 1st mobile DTV tuner integrated SoC, SmartDMA with embedded Crypto and CRC Engine, etc.

Xiaolin routinely engages with customers and technology companies across the globe to understand and influence the semiconductor industry's future. Xiaolin is well-known as an embedded system and software expert inside and outside TI and has given keynote and plenary talks or presentations at numerous WW prestigious technical conferences: IEEE ISPLC, IoT World Forum, IEEE IoT Global Summit, IEEE Global SiP, MetroCon, TexasWISE, etc. In addition, she is the author/co-author of more than 50 U.S. patents.

In addition to driving vision, strategy and product development in various application spaces, Xiaolin is very engaged in nurturing, mentoring and supporting engineers especially women engineers both inside and outside TI. She sets this as a personal priority and spends significant time through various diversity initiatives, invited talks, 1x1 mentoring programs and other forums designed to reach and motivate. 2016 is the 3rd year of her co-chairing the Industrial Advisory Counsel, as the first TI employee, at the Johnson Engineering School of University of Texas at Dallas (UTD). She also actively involved in multiple local community activities such as United Way, High-Tech High-Heel, Dallas Women Foundation, etc.

Xiaolin received multiple external awards/recognitions which include Special Recognition Award from Society of Women Engineers (SWE) and National Women of Color award in the Technical Innovation – Industry Category.

Xiaolin earned Master of Science degree in Computer Science from Indiana University in Bloomington, IN. She also has a Bachelor degree in Electrical Engineering from National Zhejiang University in China. She participated two years evening MBA training in Drake University, Des Moines, IA. Currently, she lives in Plano, TX with her family. In her free time, Xiaolin enjoys cooking, piano classes with children, classical music and leisure travel.





**Mr. Ryo Nakamoto**

*Chief, Military Integration Division, Programs Directorate  
U.S. ARMY CORPS OF ENGINEERS  
Pacific Ocean Division*

Ryo Nakamoto was born and raised in Honolulu, Hawaii. He graduated from the University of Hawaii at Manoa with a Bachelor of Science degree in Mechanical Engineering in December 1982, as a member of Pi Tau Sigma, the international mechanical engineering honor society. Following graduation, Ryo started his federal civilian service career as a nuclear engineer with the Pearl Harbor Naval Shipyard. Desiring to gain experience in facilities design, he transferred to the Navy Public Works Center as a design mechanical engineer, designing various facility mechanical systems. In 1986, he transferred to the U.S. Army Corps of Engineers, Ft. Shafter, Hawaii, to broaden his design experience on large new construction projects. From 1986 to 1999, Ryo continued to develop his expertise in mechanical system design that eventually led to his roles as senior design engineer, technical reviewer, and design team leader.

In 1999, Ryo joined Headquarters, Pacific Air Forces, Hickam Air Force Base, Hawaii as the Command Energy Manager, where he earned his Energy Manager certification and successfully led the Pacific Air Forces in achieving mandated Executive Order goals at the Command's bases and sites in Hawaii, Alaska, Guam, Japan, and Korea, comprising over 85 million square feet of facility space and \$180 million in annual utility expenses. He then became the Command Mechanical Engineer, authoring and implementing the use of the Mechanical Design Guide for Dormitories in Korea and the Commissioning Manual for Collective Protection Systems against nuclear, biological, and chemical attacks.

In 2001, he became the Deputy Chief, Engineering Division, Far East District, U.S. Army Corps of Engineers, Seoul, Korea. In addition to ensuring the production of high quality engineering products, Ryo led the 140-person Division's efforts in establishing the Division's Quality Management System, which led to the organization's subsequent ISO 9001 certification.

In 2008, Ryo became the Chief of the Korea Integration Office, Pacific Ocean Division, U.S. Army Corps of Engineers, Fort Shafter, Hawaii, providing executive management and direction over the Yongsan Relocation Plan and the Land Partnership Plan, that together total \$10.7 billion of design, construction, C4I (command, control, communications, computers, and intelligence), and building outfitting to relocate and consolidate U.S. forces, known as the Korea Relocation Program.

In 2011, Ryo transferred into his present position as Chief, Military Integration Division, Pacific Ocean Division, U.S. Army Corps of Engineers, where his responsibilities expanded to include the military programs in Alaska, Hawaii, and Japan, as well as the programs in Korea. In addition to the Korea Relocation Program, other current significant programs and projects under his responsibility include the \$17.4B Japan host nation construction program; the \$800M Department of Defense schools program in Japan and Korea, the \$470M F-35 beddown facilities, Eielson Air Force Base, Alaska; the \$322M Air Force Special Operations program in Japan, the \$311M U.S. Army Pacific Mission Command Facility at Fort Shafter, Hawaii; the \$305M Long Range Discriminating Radar facility at Clear Air Force Station, Alaska; and the \$285M C-17 beddown facilities, Hindan Air Base, India.

Ryo Nakamoto is a graduate of the Army Management Staff College and the Harvard Kennedy School of Government's Senior Executive Fellows Program; is a registered professional engineer in the State of Hawaii, a certified Project Management Professional, and a certified Gallup Strengths Coach; and has been awarded the Korea Service Medal, the Achievement Award for Civilian Service, and the Commander's Award for Civilian Service.

He is married to the former Lei Nogami and has two children, Meagan (16) and Nicole (13).

Asian American  
**Engineer**  
of the **Year**  
**Award**





**Dr. Amy Sun**

*Senior Staff Systems Engineer/  
Advanced Programs Lead for Narrowband SATCOM  
Lockheed Martin*

Dr. Amy Sun leads Lockheed Martin's Advanced Programs for Narrowband SATCOM in the Military Space line of business, where she is responsible for next-generation capabilities and technologies to meet evolving and future tactical missions. Prior to this role, she was a research engineer in mission and business concepts, where she developed several new market technology pursuit opportunities. Her many contributions to design and systems engineering include leading a technology investigation for the use of microelectromechanical systems in missile and launch vehicle systems.

Dr. Sun began her career at Lockheed Martin Space Systems Company in 1997 as an ASIC and processors design engineer with the Fleet Ballistic Missile and Airborne Laser programs. She later became the Mobile User Objective System (MUOS) System Integration Lab project lead during its Component Advanced Development phase.

Dr. Sun is co-founder and president emeritus of a non-profit global organization committed to building technical capacity of a locality, improving individuals' abilities to develop themselves and their communities. She led a multinational team to develop a sustainable, low-cost, open-source broadband internet system with a replicable business model that has been piloted successfully in Afghanistan, Kenya and elsewhere. She has been a board member of BattleBots IQ, an educational program aimed at middle and high school science, technology, engineering and math hands-on instruction.

She earned her Ph.D. at the Massachusetts Institute of Technology's Center for Bits and Atoms, where she investigated synthetic programmable boundary layers with the goal of developing innovative energy transport mechanisms. Her master's degree was focused on field fabricated solar thermal turbines. She holds dual electrical and computer engineering bachelor's degrees from Purdue University.

Dr. Sun has earned the U.S. Navy Arctic Service Ribbon for her pioneering work as well as Lockheed Martin's highest honor, the NOVA Technical Excellence award.

Asian American  
Engineer  
of the Year  
Award





**Mr. Jack Cheung**

*Engineering Associate Manager  
Lockheed Martin*

Jack Cheung started his career at Lockheed Martin in 2007 in the Engineering Leadership Development Program. He honed his technical and leadership skills through the program's rotational opportunities before joining the Trident Navigation Program team. He obtained his technical training from Binghamton University with a Bachelor's in Mechanical Engineering and a Master's in System Engineering from Cornell University.

Jack has consistently shown an ability to lead a challenging role. He represented Lockheed Martin at the Electric Boat facility on the U.S. Navy's Ohio Replacement class submarine program, leading Lockheed Martin's on-site effort for Trident Navigation subsystem's integration with a future class of submarine. He later led as the engineering project manager on a Trident Tech Refresh program through the proof of concept and engineering demonstration model development phase, setting the corner stone for future development of the subsystem. Most recently, Jack helped shaped the future of Lockheed Martin in Mitchel Field, N.Y. by leading a multi-disciplined team as the proposal manager. The team successfully captured the future development and production effort for three Trident tech refresh programs.

Prior to joining Lockheed Martin and completing his trainings, Jack served in the U.S. Marines after completing his high school education. Serving as Infantryman, he completed his first tour in Iraq in 2003. Jack volunteered to deploy again in 2009 when he learned that his Marine unit was deploying to Iraq. The unit was being split in half and was in need of more leadership. Jack decided to file for an extension on his contract so he could join them. He completed his second tour leading more than 30 Marines as a platoon sergeant.

Jack has always sought to give back to the communities. He currently mentors military members via social media (RallyPoint) and supports a leadership development program through the Louis August Jonas Foundation. He previously mentored high school students in FIRST Robotics in the Manassas, Va. and Long Island, N.Y. area.

Asian American  
Most Promising  
**Engineer**  
of the **Year**  
**Award**





**Mr. Steven Chun**

*Materials, Process & Physics Engineer  
Senior Failure Analyst, Team Lead  
Engineering, Operations & Technology  
The Boeing Company*

Asian American  
Most Promising  
Engineer  
of the Year  
Award

Steven Chun grew up in Hawaii with dreams of attending the University of California, Los Angeles. Despite a dismissive high school counselor, Chun applied to UCLA, was accepted and graduated with bachelor's and master's degrees in Materials Science. He went on to earn another master's degree in Systems Architecting and Engineer, this time from the University of Southern California, and today is pursuing a doctoral degree in Materials Science and Engineering from UCLA.

"My conversation with that counselor has stayed with me as I challenge myself and prove to naysayers that I am capable of doing anything I set my mind to," Chun says. "It's a story I share with my students and mentees: Anything is possible if you are determined and committed to working hard toward your goals. Never let fear or self-doubt stop you."

Chun is a Materials, Process & Physics Engineer and Senior Failure Analyst with Boeing Defense, Space & Security, in El Segundo, Calif. He leads a team of engineers and technicians at the Failure Analysis Lab who analyze electronic components for Boeing satellites and commercial, military and space products. Chun is a Boeing Designated Expert for Scanning Electron Microscopy, Failure Analysis, Constructional Analysis and Destructive Physical Analysis.

Chun has published an article in the Journal of Materials Science, presented a paper to the International Symposium for Testing and Failure Analysis, and published five papers in Boeing's annual Technical Journal. He also is a UCLA instructor teaching the Materials Science introductory lab course to undergraduates.

In his community, Chun chairs Boeing's Global Month of Service in California by leading 1,000 volunteers in activities at two dozen locations. He brings hands-on learning to elementary school students through Boeing STEM Learning Labs and mentors high school students through Boeing's STEM Outreach program. For a dozen years, Chun also has helped build houses through Habitat for Humanity. In his spare time Chun enjoys travelling. He reached the summit of Mount Kilimanjaro in 2012, and, among his favorite travel destinations are Macchu Picchu in Peru and the Galapagos Islands.





**Mr. Tian Ma**

*Principal Member of the Research &  
Development/Science & Engineering Staff  
Sandia National Laboratories*

Tian Ma is a Principal Member of the Research & Development/Science & Engineering Staff working at Sandia National Laboratories. He is a leading innovator in data analysis, data processing, and data exploitation where he has over 12 years of experience in developing innovative, practical, and robust algorithms for a class of remote sensing systems; especially in the nuclear nonproliferation arena. He has implemented and delivered numerous real-time mission capabilities for a class of remote sensing systems that are of national importance to the security of the United States. He is recognized as a key expert in detection algorithms and a pioneer in the field of tracking systems where he has innovated and delivered state-of-the-art detection and tracking algorithms to these systems. His research solutions are not simply theoretical constructions in literature, but have been realized and engineered into real-world applications.

Tian was a technical lead on several government-funded projects where he led and transitioned important capabilities to operational systems. He was also a Principal Investigator of two Internal Research and Development (IRAD) projects at Sandia over the past 6 years, and his research resulted in new advanced capabilities that were integrated into national remote sensing assets.

Tian's research advancement has received continuous funding from government sponsors for operational transition. His sphere of influence has spread to multiple mission-critical programs. His work and expertise is highly recognized in the remote sensing communities, and he has presented his work at technical forums and multiple conferences.

Tian was the recipient of Sandia's Up and Coming Innovator Award in 2014. Tian currently has one U.S. patent issued; two U.S. patents pending, three technical advances, and three SAND Report publications. He has a B.S. in Computer Engineering (2003) and a M.S. in Electrical and Computer Engineering (2004) from the University of Illinois at Chicago, and a M.B.A. in Management of Technology (2015) from the University of New Mexico.



Asian American  
Most Promising  
Engineer  
of the Year  
Award





**Dr. Peiling Wu-Smith**

*Manager and Program Lead,  
Global R&D Operations Research  
General Motors Company*

Asian American  
Most Promising  
Engineer  
of the Year  
Award

Dr. Peiling Wu-Smith joined General Motors' Research & Development (R&D) after completing her Ph.D. in Industrial Engineering and Operations Research at Lehigh University in 2001. During her 14-year GM career, she has progressed through various roles of increasing responsibility. As a program lead and manager in Operations Research, her focus is applying advanced analytics to GM's business and operations. She has made high-impact contributions in global product marketing, market research, supply chain & logistics, and vehicle sales and services.

One of Peiling's most notable accomplishments is the development of novel capabilities for vehicle content packaging and pricing, which has led to a major cross-functional implementation initiative in GM. In recognition for this work, Peiling and her R&D team won a 2014 Boss Kettering Award, GM's highest internal honor for technical invention. In addition, she received a 2013 GM Transformers Award, which recognizes employees who are taking actions to lead the company to world-class competitiveness. Peiling is also the recipient of TeamGM awards, Patent and Record of Invention awards, and Lehigh University Graduate Fellowship and Graduate Student of the Year recognition. She has published in various professional journals and been invited to present her technical work internationally.

Throughout her career, Peiling also has maintained a portfolio of professional and community service affiliations. She served on GM's University Relations Team and as an officer of GM's chapter of the Sigma Xi Scientific Research Society. She is active with the Institute for Operations Research and the Management Sciences (INFORMS), the world's largest society for professionals in these fields. Peiling has represented GM on the INFORMS Roundtable, served as a judge for its Revenue Management Prize, and is a member of the Franz Edelman Award Finalist Selection Committee. In her local community, Peiling has been a volunteer for MathCounts and the Tzu Chi Foundation.

Peiling is married to Scott Smith and has a 3-year-old-son, Brendan. In her spare time, she enjoys spending time with family and friends, volunteering, traveling to national parks, hiking, cross-stitching, and working on jigsaw puzzles.



## 2015 Asian American Engineer of the Year (AAEOY) Highlights

*February 27-28, 2015 at Los Angeles, California*



Tour Jet Propulsions Laboratory, California Institute of Technology and Getty Center Museum



Pre-Awards Dinner at RMS Queen Mary



Technical Symposium and Student STEM Competition



Distinguished S&T Award - Dr. Shuji Nakamura

Lifetime Achievement Award – Dr. Victor J. Dzau





2015 AAEYOY Hall of Fame & Awards Ceremony



2015 AAEYOY Team Seal Transition to 2016 AAEYOY Host - CIE-USA/Greater New York Chapter





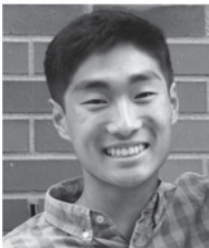
## AAEOY DiscoverE New Faces of Engineering



**Wen-Shin Wang** joined the semiconductor industry since graduating from Southern Methodist University in 2011. She works at Texas Instruments Inc. as a product marketing engineer responsible for growing the signal chain portfolio in automotive applications. Wen-Shin was a member of the product definition team to build the next generation power management devices for future infotainment systems. She also worked as an applications engineer for test data collection. Wen-Shin also worked at Raytheon as a co-op in shipping and operations, and troubleshooting.

Wen-Shin is an officer of the Chinese Initiative (CI) of Texas Instruments. She was the communications representative to promote CI events in TI. She is a co-chair in the CI Mid-Management Roundtable Sessions, a networking event centered on various career development topics. She is actively supporting the community as the Vice President of Young Professionals for the Chinese Institute of Engineers (CIE) DFW chapter to provide career development support for young professional. She was the session leader and moderator for the Leadership and Career Development Track at the CIE-USA/DFW's 2015 annual symposium. Wen-Shin also participated in and organized the Asian American Citizen's Council Dallas/Fort Worth (AACC) Youth Symposium which focuses on helping high school students to prepare for college and career development.

Wen-Shin enjoys practicing martial arts at Lee's White Leopard Kung Fu School since the age of 9, and is a third-degree black belt. She was a team leader of the adults and children kung fu demonstration team to promote kung fu and Asian culture at various events including the Drug Enforcement Administration, US Department of Justice, Texas Instruments, Dallas Museum of Art, the State Fair of Texas, and others. Wen-Shin is a recipient of the Greater Dallas Asian American Chamber of Commerce Community Scholarship Award presented by Texas Governor Rick Perry.



**Joseph Ming** is a 4th year student at the Johns Hopkins University pursuing degrees in both biomedical engineering and computer science. Academically, he is focusing mainly on biomedical engineering by using mathematical models to exam various biological processes and control systems. In his sophomore year, he obtained Emergency Medical Technician certification. This gave him and his peer the idea of developing a mobile application to help people in medical emergencies – this iOS application won the Best Socially Innovative Hack, Best User Experience, and Honorable Mention at HopHacks, the annual hackathon held at JHU. He also created a similar application and went on to be a finalist at MedHacks, a medical and biotech hackathon. He has also been an assistant for courses including Introduction to Programming in Java and Object Oriented Software Engineering.

The combined biomedical engineering and computer science field led him taking Computer Integrated Surgery course, where students learn the necessary steps to program computers and build medical tools to aid surgeons in the operating room. In this coming spring, he will continue the course to work under Dr. Russell Taylor, to develop software to be used in surgical device and to help create a device. After graduation, Joseph will be working at Athena health to continue a career in this cross-discipline field.





## 2016 Future City® Competition

Future City is a cross-curricular program that lets students in the 6th, 7th, and 8th grades do the things engineers do: identify problems, brainstorm ideas, design solutions, test and retest, build and then share the results. Future City is a program of DiscoverE.



### 2016 Future City Champions: Alabama!

The team from the Academy for Science and Foreign Language in Alabama won the Future City Finals with their city, Ville Suave. Congratulations!



### Future City team meets Obama!

Our South Florida team attended the 2013 White House Science Fair and had a chance to tell President Obama all about their ideas for the city of the future



## Acknowledgement

**CIE-USA WOULD LIKE TO RECOGNIZE AND THANK**

### **Diamond Sponsors**

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TECRO Science and Technology Division



## 2016 AAEOY Technical Symposium

A program sponsored by the Boeing Company

<i>Time</i>	<i>Activity</i>		
12:00 PM	Registration		
12:30 PM	Plenary Session ( <i>Garden State Ballroom</i> )		
12:45 PM	Keynote Speech: Dr. Pratyush Kumar, Vice President, Boeing Company		
1:20 PM	Dr. Manjul Bhargava, Princeton University		
1:55 PM	Dr. Jianying Hu, IBM Watson Research Center		
2:30 PM	Break		
2:40 PM	Session I: Innovation, Entrepreneurship, and Leadership ( <i>Garden State Ballroom</i> ) Panel I: Leaders in Engineering	Session II: <i>Robotics Demo: A Close Encounter with Robots (Salon AB)</i> CCNY Robotics Team ( <i>Prof. J. Xiao</i> ) Lancers Robotics Team ( <i>Livingston High School</i> )	Business Exhibit for Engineers, Scientists, and Students ( <i>Atrium</i> )
3:40 PM	Panel II: A New Generation of Engineers in Innovation and Entrepreneurship		

### Keynote Speech Presentation:

Dr. Pratyush Kumar, VP, Boeing Company, President of Boeing India  
*Role of Diversity in 100 years of Technology & Innovation at Boeing*

### Plenary Presentation I:

Prof. Manjul Bhargava, Princeton University, Fields Award 2014 Winner  
*Square values of mathematical expressions, from ancient times to the modern era*

### Plenary Presentation II:

Dr. Jianying Hu, Distinguished Research Staff Member and Senior Manager of Health Informatics Research at IBM T. J. Watson Research Center, NY  
*Data Driven Healthcare Analytics*



### Parallel Session I. Panel Discussion: Innovation, Entrepreneurship, and Leadership

**2:40 to 3:40 PM Panel I: Leaders in Engineering** *A panel of the top engineers in the country will talk about what leadership is, and what it is not.*

#### Panelists:

Mr. Srinivas Dixit, Lockheed Martin, 2016 Asian American Executive of the Year  
Dr. Rongsheng Li, Boeing Company, 2016 Asian American Engineer of the Year  
Dr. David E. Lee, Northrop Grumman, 2016 Asian American Engineer of the Year  
Dr. Peiling Wu-Smith, GM, 2016 Asian American Most Promising Engineer of the Year



**3:40 to 5:00 PM Panel II: A New Generation of Engineers in Innovation and Entrepreneurship** A panel of modern day engineers engaged in start-ups will talk about what it takes to lead a company, and their personal experiences along the way.

Panelists:

Alvin Kong, an innovator and entrepreneur who is launching start-ups in construction materials and R&D. Alvin has been building his business in electrical engineering, integration & project management, and building design & construction over the years over the years.

Evan Horowitz, CEO of EH Advising, BS in Engineering from Stanford and MBA from Harvard. His experience spans from working with large corporate businesses, to providing coaching to start-ups.

Evelyn Deng, Chief Administrative Officer and Director of the Infrastructure Practice at 32 Advisors. Based in New York, she provides domestic and international clients with guidance in business development and implementation. Evelyn graduated from Harvard University with a degree in physics. Asteroid 20880 Yiyideng is named after her in honor of her research in photonics.

Dr. Jizhong Xiao, Director CCNY Robotics Lab, a scholar and demonstrated entrepreneur.

Moderator, Panel Discussion

Joyce Moy is currently the Executive Director of the Asian American and Asian Research Institute (AAARI), of the City University of New York (CUNY). Her field of expertise is economic development and entrepreneurship. She was the first Asian American director of a New York State Small Business Development Center (SBDC) funded by the US Small Business Administration and New York State, located at LaGuardia Community College/CUNY. She received her Juris Doctorate from Hofstra University School of Law.



**Parallel Session II. Robotics Demo: A Close Encounter with Robots**

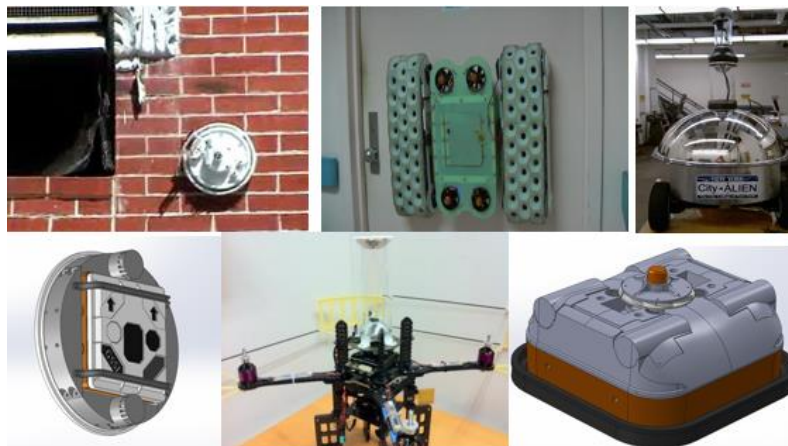
Team 1: Robotics Research at The City College of New York

Presenters: Dr. Jizhong Xiao (Director, CCNY Robotics Lab), Bing Li, Liang Yang, Qingtian Chen, Jonathan Liu



The research topics include: robotics and control, cyber-physical systems, autonomous navigation and 3D simultaneous localization and mapping (SLAM), real-time and embedded computing, assistive technology, computer vision, multi-agent systems and swarm robotics. Specific initiatives underway in the lab include: wall climbing robots for nondestructive evaluation of infrastructure, autonomous navigation of MAVs (micro aerial vehicles), assistive navigation for visually impaired people. The problems studied here involve both theoretical development in new methodologies for control, planning, coordination and learning, as well as implementation issues in sensory measurement, hardware design, and computer software development. The laboratory continues to receive funding support from the NSF, ARO, DOT, FHWA, and Google, for its unique effort in theoretical development and experimental validation.





### Team 2: Lancer Robotics “Inspires” Innovation

Affiliated with the Livingston High School in New Jersey, the Livingston Lancers Robotics Team #3415 is made of students who are interested in programming and building robots to compete in regional and international competitions such as the FIRST Tech Challenge (FTC). During the past 6 seasons, the Livingston Lancers have won numerous awards at the state and world championships.

Coached by Lauren Atkins and Brian Lynn, the Livingston Lancers have put their creative minds together to build amazing robots that hold insight to realistic real-world applications. Their robotics demonstration at the 2016 AAEOY convention will include a general description of FIRST (For Inspiration and Recognition of Science and Technology) robotics, and an in-depth discussion of the different aspects of robotics design such as build, CAD, programming, and outreach. At the end of their presentation, the audience will have an opportunity to drive the robot around the field to experience their driver-oriented code. The demonstration of their award-winning robot RES-Q for the 2015 – 2016 season will be given by Olivia Yao (senior co-captain), David Milter, Harris Paspuleti, Andrew Jones, Matt Quan, Rachel Margolin, and Jake Wiseberg.



Olivia Yao



David Milter



Harris Paspuleti



Andrew Jones



Matt Quan



Rachel Margolin



Jake Wiseberg



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# **CIE-USA Centennial Celebration 1917 – 2017**

The Chinese Institute of Engineers – USA was founded in 1917 by a group of Chinese engineers who had studied in the United States. Our mission is to promote the communication among Chinese engineers and the advancement of science, technology, engineering, and mathematics (STEM). On October 14, 2017, we plan to celebrate our Centennial at the picturesque HNA Palisades Premier Conference Center in Rockland County, New York. If you would like to sponsor or participate in this once-in-a-lifetime event, please contact the CIE-USA Centennial Planning Committee ([centennial@cieusa-gnyc.org](mailto:centennial@cieusa-gnyc.org)).



# About CIE-USA

Chinese Institute of Engineers-USA is a professional non-profit and non-political organization. It was founded in 1917 in New York by a group of talented and forward-looking Chinese engineers who graduated from American colleges and worked in American railroad and various industries. On July 15, 1953, the United States chapter was reinstated as an independent entity known as CIE-USA and its activities engaged members from all parts of the United States.

As Chinese American engineers have played a significant role in the rapid growth of science and technology in the United States, CIE-USA National Council was formed in November 1986 to coordinate the engineering and professional activities in the major metropolitan regions in the United States. The CIE-USA National Council consists of seven chapters: Dallas Fort-Worth chapter, New Mexico chapter, Greater New York chapter, San Francisco Bay Area chapter, Seattle chapter, Southern California Chapter, and OCEESA (Environmental) chapter. You may visit [www.cie-usa.org](http://www.cie-usa.org) website for more information.

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