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Fueled by your thinking, the CST-100 Starliner will usher in an era of commercial human space travel. Join us and see how far we can go together.

Congratulations to the Boeing awardees of the AAEOY 2019.

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2019 CIE-USA Chairman's Remarks



Simon Ma

Chairman, CIE-USA National Council

On behalf of the Chinese Institute of Engineers-USA (CIE-USA), it is my great honor to welcome all distinguished guests including our CIE/USA representatives from all regional chapters to Dallas, Texas. Here, we're celebrating the 18th annual Asian American Engineer of the Year Award (AAEOY) event hosted by CIE/USA.

Every time when I participate the AAEO banquet, I am excited. I am excited to learn great stories from the Award recipients who contribute a lot to their organizations and our country. Their achievements in engineering interest me as well as their lifetime stories with their family and at work. To me, it is a precious opportunity to make friends with those working in different fields with admirably strong will. It is also a unique opportunity to meet the leaders who want to recognize the great minds in their group. They are the leaders that people want to follow. It is good to meet the volunteers of CIE who spend months of time to put this program together. We want more people to know the contributions of Asian American engineers; the to recognize that Asian American engineers play an important role in making the USA a great country and they deserve the respects. The volunteers of the planning committee believe in this vision and make this event happen every year.

When the AAEOY event was first held in Dallas on February 23, 2002, it was held as the "Oscar for Technology". These award recipients impact the human society in a profound way. We want the award recipients to feel the respect from the society and let their colleagues and family members witness it. We're grateful to those sponsoring organizations for their continuous trust and great support.

I would like to congratulate tonight's awardees including the Distinguished Lifetime Achievement Award recipients, Dr. Morris Chang, and three Distinguished Science & Technology Award recipients, Dr. Tsu-Jae King Liu, Dr. Chi-Foon Chan, and Dr. Zhijian Chen, for their outstanding achievements and extraordinary contributions to the society and our country. I also want to give my heartfelt thanks to all wonderful members of 2019 AAEOY planning committee for their dedication and hard work in making this award event a vast success. Let's celebrate together and enjoy this special evening.

Sincerely yours,
Simon Ma
Chairman, CIE-USA National Council



Engineering in various languages:
Hindi: इंजीनियर (insinyur)
Korean: 엔지니어 (engineer)
Mandarin: 工程師 (gōngchéngshī)
Japanese: 工 (kō) 師 (shi)
Tagalog: inhinyero
Vietnamese: kỹ sư (ky sur)
Cantonese: 工程師 (gōngchéngshī)
Hebrew: מהנדס (mehanes)



ongratulations
to the Asian
American
Engineer of
the Year Award
winners.

*You continually
inspire us with
your leadership
and vision.*



Dr. Boryann Liaw



Dr. Rita Baranwal

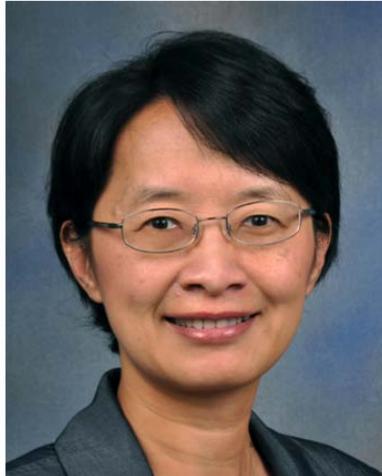
Looking for an exciting career?
INL is where you belong.

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Idaho National Laboratory

AAEOY 2019 Chairs' Remarks



Dr. Claire Jung
Chair



Dr. Lun Tsuei
Co-Chair

On behalf of the 2019 Asian American Engineer of the Year (AAEOY) Executive Committee, we would like to welcome all the distinguished guests, the awardees and sponsors to Dallas, Texas for the 18th AAEOY Award and Conference.

The AAEOY Award is the only program of its kind in the United States that pays particular tribute to the STEM (Science, Technology, Engineering, and Mathematics) professionals of Asian cultural heritage. The awardees have made significant contributions to their associated institutions, communities and our nation. Many of the achievements are monumental breakthroughs in science and technology. It is our honor to congratulate the 2019 AAEOY Award recipients for their outstanding achievements, which also set exemplary models for the next generation. Their impact is globally everlasting and the results benefit all of mankind.

In addition to the AAEOY Award, the 2019 Executive Committee partnered with DiscoverE and local CIE/USA chapters to kick-off a new initiative called the Future Engineers Program. Since future leaders are influenced at a young age, the purpose of this program is to coordinate and promote STEM activities across the US among students in K-12 during the DiscoverE Engineers Week. In collaboration with DiscoverE, the Future Engineers Program is meant to amplify the importance of engineering and technology. Past AAEOY award recipients were called upon to engage in the program. Activities for the 2019 Future Engineers Program included: Future City Competition, Math Competition, and Student Engineering & Creativity Competition (SECC). 2019 AAEOY committee also planned a variety of quality programs such as a Job Fair and an interactive Sponsor Exhibition to attract local talents and showcase sponsor companies. A Technical Executive Forum is designed for executives and awardees from the sponsor companies to network, exchange ideas, discuss industry trends and challenges, as well as to collaborate.

The 2019 Executive Committee would like to express our sincere appreciation to all of the sponsors as they are not only the technical leaders in their fields, but they also serve as great corporate citizens in recognizing diversity and giving back to the community. We also would like to thank all of the volunteers, advisors, and partners for their leadership, dedication and persistent hard work in making the 2019 AAEOY program a success.

Let us celebrate and work together to invent a better future!

Sincerely,
Claire Jung and Lun Tsuei
Chair and Co-Chair of the 2019 AAEOY Executive Committee



Congratulations Letter



Angie Chen Button

State Representative

ANGIE CHEN BUTTON



The State of Texas
House of Representatives

CAPITOL OFFICE:
PO. Box 2910
AUSTIN, TEXAS 78768-2910
512-463-0486
512-463-0793 (fax)

DISTRICT OFFICE:
1200 E. EXECUTIVE DR., STE. 130
RICHARDSON, TEXAS 75081
972-234-8980
972-470-0789 (fax)

August 17, 2019

Chinese Institute of Engineers Dallas-Fort Worth Chapter
2019 AAEOY Award Banquet
Renaissance Dallas at Plano Legacy West
6007 Legacy Dr, Plano, TX 75024

Dear Friends:

It is my pleasure to welcome you to the 2019 Asian American Engineer of the Year (AAEOY) Award Banquet. I appreciate your attendance this evening to celebrate the occasion.

We gather together today to celebrate the most distinguished Asian-American Professionals for their leadership, technical achievements, and public service. I extend my warmest congratulations to all of this year's awardees who have brought distinction to the fields of science and engineering.

I would like to thank the Chinese Institute of Engineers Dallas-Fort Worth Chapter for hosting this event and helping the Asian-American community flourish in the great state of Texas.

I hope you all enjoy this banquet and feel inspired by the wonderful individuals introduced this evening. It is an honor to serve you in the Texas Legislature. Please feel free to contact me whenever I can be of assistance.

Best wishes,

Angie Chen Button
State Representative, District 112
ACB/mw



Vertical text on the left margin listing the word 'engineer' in various languages: English (engineer), Chinese (工程師), Korean (엔지니어), Japanese (エンジニア), Vietnamese (kỹ sư), Spanish (ingeniero), Arabic (مهندس), Hebrew (מהנדס), Russian (инженер), Polish (inżynier), German (Ingenieur), French (ingénieur), Italian (ingegnere), and others.



Congratulations Letter



Leslie Collins

Executive Director of DiscoverE



2019 Asian American Engineers of the Year Proclamation

May 23, 2019

On behalf of DiscoverE, the premiere engineering outreach organization, I congratulate the 2019 Asian American of the Year Awards recipients. I also send warm wishes for those attending this wonderful and inspiring event.

The Chinese Institute of Engineers-USA became a DiscoverE partner and coalition member many years ago. This partnership helped spark the AAEOY program, and it has been exciting to watch its growth and continued success. It is critical to recognize those not only leading the way in engineering and technology achievements but also in cultivating future generations.

My best wishes for this exciting and prestigious event.

Sincerely,

Leslie Collins
Executive Director
DiscoverE

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Congratulations Letter



Harry LaRosiliere

Mayor of the City of Plano

Special Recognition
THE CITY OF PLANO

The Plano City Council Congratulates
ASIAN AMERICAN ENGINEERS OF THE YEAR

Whereas, the annual Asian American Engineers of the Year (AAEOY) award recognizes and honors Asian American professionals in Science and Engineering. Their technical achievements, leadership and public services have benefited American corporations, academic, and government entities by promoting Science, Technology, Engineering and Mathematics (STEM) activities in communities throughout the nation. Those receiving the award have been judged on professional accomplishments, impact of professional actions, and community service.

On this special occasion, we welcome engineers, sponsors, CIE/USA members, families and friends, and honored guests who are joining us for today's celebration. We congratulate the Engineers and welcome everyone to Plano.



Therefore, I, Harry LaRosiliere, Mayor of the City of Plano, Texas, do hereby extend our congratulations and welcome on behalf of the Plano City Council.



Harry LaRosiliere
Office of the Mayor

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Congratulations Letter



C. D. Mote, Jr.

President of National Academy Of Engineering



NATIONAL ACADEMY OF ENGINEERING

The National Academies of Sciences, Engineering, and Medicine

C. D. Mote, Jr.
President

2019 Asian American Engineers of the Year Proclamation

April 8, 2019

On behalf of the U.S. National Academy of Engineering (NAE), I would like to extend my warmest wishes to those attending the 2019 Asian American Engineers of the Year Award event.

In order to achieve important global goals, like those outlined among the NAE's Grand Challenges for Engineering, the world needs skilled engineers more than ever. Recognizing the contributions of prominent engineers is important for encouraging and inspiring the next generation of change makers. That is exactly what you are doing, and we applaud the Chinese Institute of Engineers-USA for hosting such a wonderful event. Of course, I also want to congratulate the individuals who are being honored during this celebration of engineering excellence.

My best wishes for a successful and joyful event.

Yours sincerely,

C. D. Mote, Jr.



Congratulations Letter



Van Taylor
Member of Congress



VAN TAYLOR
MEMBER OF CONGRESS
THIRD DISTRICT, TEXAS

May 21, 2019

Dear Friends,

As Representative for Texas' Third Congressional District, I have witnessed a vibrant and growing science, technology, engineering, and mathematics (STEM) community in and around North Texas. As such, it is my pleasure to welcome the Chinese Institute of Engineers/USA (CIE/USA) and other attendees of the 2019 Asian American Engineers of the Year Award and Conference to Dallas.

Since your inception, CIE/USA's objective to promote STEM in all communities has been of extreme benefit to the success of our region. Additionally, I would like to congratulate the winners of this year's Asian American Engineer of the Year (AAEOY) award. This annual recognition honors outstanding Asian American professionals in Science and Engineering for their technical achievements, leadership, and public service, and this year's recipients should be justifiably proud of this achievement.

Once again, it is my honor to welcome your organization to our region and thank you for your continued work to advance STEM fields in our community and around our Nation.

Semper Fidelis,

Van Taylor
Member of Congress

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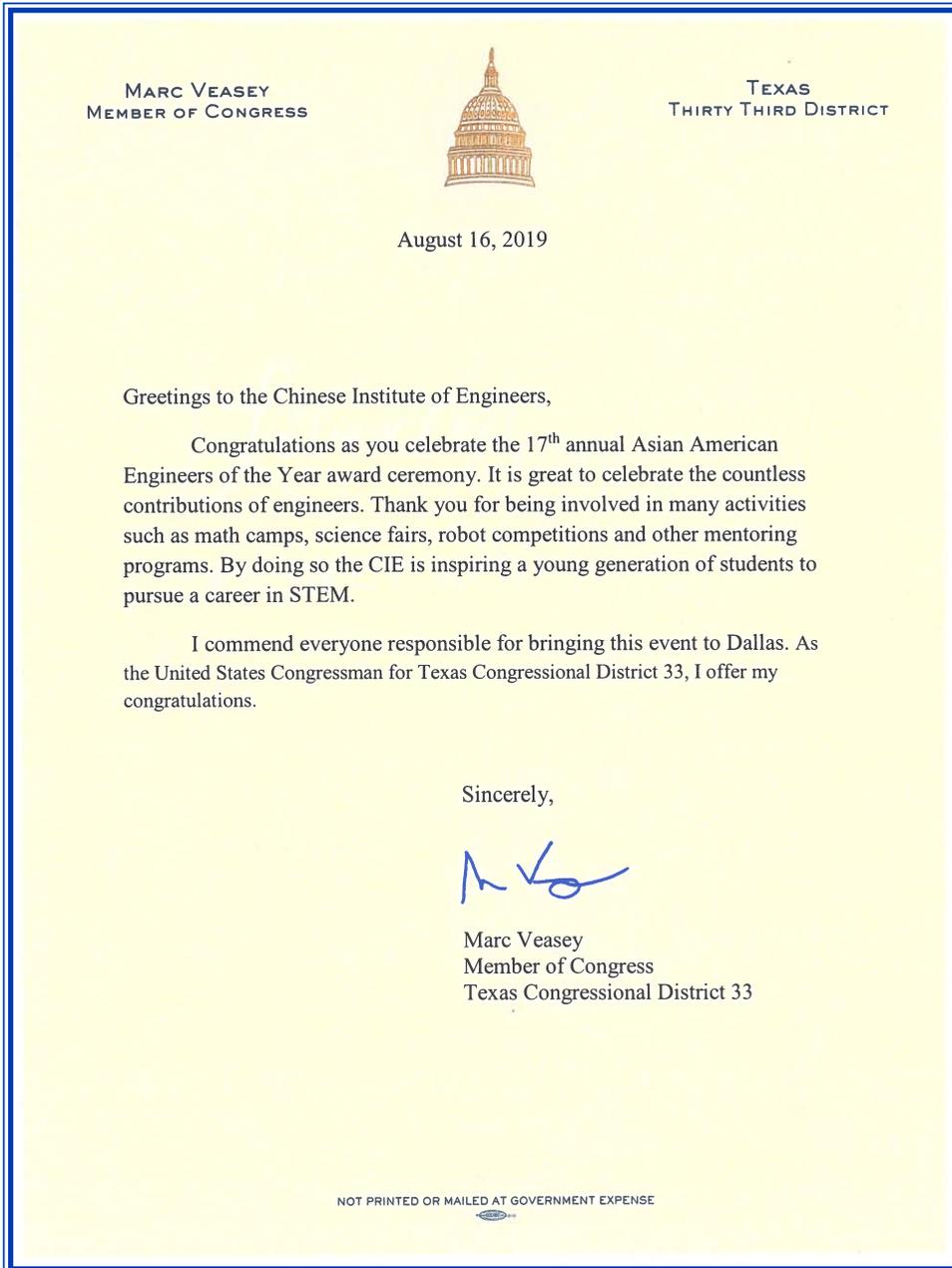


Congratulations Letter



Marc Veasey

Member of Congress



MARC VEASEY
MEMBER OF CONGRESS



TEXAS
THIRTY THIRD DISTRICT

August 16, 2019

Greetings to the Chinese Institute of Engineers,

Congratulations as you celebrate the 17th annual Asian American Engineers of the Year award ceremony. It is great to celebrate the countless contributions of engineers. Thank you for being involved in many activities such as math camps, science fairs, robot competitions and other mentoring programs. By doing so the CIE is inspiring a young generation of students to pursue a career in STEM.

I commend everyone responsible for bringing this event to Dallas. As the United States Congressman for Texas Congressional District 33, I offer my congratulations.

Sincerely,

Marc Veasey
Member of Congress
Texas Congressional District 33



Congratulations Letter



Paul Voelker

Mayor of Richardson

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July 5, 2019

Mayor
Paul Voelker

Greetings!

On behalf of the City of Richardson, we would like to extend our warmest greetings to the guests attending the Asian American Engineer of the Year Award and Conference. We applaud your efforts in recognizing these outstanding Asian American professionals in Science and Engineering for their technical achievements, leadership, and public services. Since 2002, hundreds of Asian-American professionals from leading US corporations, prestigious research institutions as well as US Armed Forces have been selected recipients of this prestigious award.

Besides recognizing outstanding Asian American engineers and scientists from across the country, special Distinguished awards were also created to honor and celebrate the achievements of Asian Americans for their global stature and influence. These awardees will serve as role models and a source of inspiration for the STEM community as a whole.

Richardson is a city rich in ethnic and cultural diversity due to the many positive contributions made in our community by Asian Americans. We are excited to hear about the partnership with the CIE/USA area chapters and DiscoverE who will be kicking off a new initiative called the Future Engineers program. This program will coordinate and promote STEM activities across the US among students in K-12 during the DiscoverE Engineers Weeks.

We would like to wish the awardees all the best as you continue to make a positive impact for future generations. Again, congratulations and best wishes for a memorable and productive evening. We wish you many more years of continued success.

Sincerely,

 Paul Voelker
 Mayor

P.O. Box 830309
 Richardson, TX
 75083-0309
 972.744.4100 Tel
 972.744.5803 Fax
 www.cor.net



2019 AAEOY Award Program

- 5:00 PM Reception for the VIP Guests
- 5:45 PM Entrance of Guests
- 6:05 PM Welcome by the Master of Ceremonies
- 6:10 PM Presentation of Colors
United States Navy
- 6:15 PM National Anthem
Di's Vocal Art
- 6:20 PM Opening Remarks
Dr. Claire Jung, 2019 AAEOY Executive Chair
- 6:25 PM Remarks by the CIE/USA National Council
Simon Ma
- 6:30 PM Acknowledgment of Congratulations Letter
- 6:35 PM Dinner
*Dinner Entertainment by The String Theory Quartet
Dallas Asian American Youth Orchestra*
- 7:20 PM Keynote Speech by The President and Chief Executive Officer, ERCOT
Bill Magness
- 7:40 PM Presentation of Awards—Part I
- 8:35 PM Dance Performance
Jiaping Shi Dance School
- 8:40 PM A Presentation by the 2019 AAEOY, Technology Fusion - Invent a Better Future
- 8:45 PM Presentation of Awards—Part II
*Distinguished Lifetime Achievement Award
Distinguished Science and Technology Award*
- 9:35 PM The Children's Chorus Performance
Di's Vocal Art
- 9:45 PM Presentation of Awards—Part III
- 10:25 PM Prize Draw
- 10:30 PM Closing Remarks
Dr. Lun Tsuei, 2019 AAEOY Executive Co-Chair
- 10:40 PM End of the Program



2019 AAEOY Awardee



Presentation of Awards - Part I

The Boeing Company

Gary Hamatani

Asian American Executive of the Year

Michael Louie

Asian American Most Promising Engineer of the Year

Dr. Weidong Song

Asian American Engineer of the Year

IBM

Dr. Bala Rajaraman

Asian American Engineer of the Year

AT & T

Dr. Rulei Ting

Asian American Engineer of the Year

Dupont

Dr. Mingqi Li

Asian American Engineer of the Year

General Motors

Christina Choe

Asian American Most Promising Engineer of the Year

Presentation of Awards - Part II

**Distinguished Lifetime
Achievement Award**

Dr. Morris Chang

**Distinguished Science
and Technology Award**

Dr. Tsu-Jae King Liu

Dr. Chi-Foon Chan

Dr. Zhijian “James” Chen

Presentation of Awards - Part III

Idaho National Laboratory

Dr. BorYann Liaw

Asian American Engineer of the Year

Dr. Rita Baranwal

Asian American Engineer of the Year

Texas Instruments Incorporated

Dr. Claire Jung

Asian American Engineer of the Year

Sameer Pendharkar

Asian American Engineer of the Year

Los Alamos

National Laboratory

Dr. Dasari V. “DV” Rao

Asian American Engineer of the Year

Sandia National Laboratories

Dr. Stan Chou

Asian American Most Promising Engineer of the Year

United States Navy

Mr. Trung Tran

Asian American Engineer of the Year



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BEST
WORK
EVER.

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IBM



Waka
Joined IBM 2015

Distinguish Lifetime Achievement



Dr. Morris Chang

Founder, Retired CEO & President
**Taiwan Semiconductor Manufacturing
Company Ltd. (TSMC)**

Citation:

For outstanding leadership in the world semiconductor industry

Dr. Morris Chang founded Taiwan Semiconductor Manufacturing Company Ltd. (TSMC) in 1987, served as its Chairman for 31 years, and its CEO for many of those 31 years. Dr. Chang retired from TSMC in June 2018. TSMC pioneered the dedicated silicon foundry business model and serves as an open process/design integration platform for other integrated circuits (IC) companies. Many IC innovations in the last 30 years, including those for the mobile phone, have come from the TSMC platform.

Prior to his career in Taiwan, Dr. Chang's career was in the United States. He was the President and Chief Operating Officer of General Instrument Corporation from 1984-1985, and prior to that, he served at Texas Instruments Incorporated for 25 years (1958-1983), where he was Group Vice President responsible for worldwide semiconductor business for six years.

Dr. Chang received his B.S. and M.S. degrees in Mechanical Engineering from M.I.T. in 1952 and 1953, and his Ph.D. in Electrical Engineering from Stanford in 1964. He has received honorary doctorates from eight universities worldwide.

Dr. Chang received many honors and awards in his career. Among them were: the "Exemplary Leadership Award" of the Global Semiconductor Alliance (1999), the IEEE Robert N. Noyce Medal (2000), and the highest honor of the Semiconductor Industry Association, its Robert N. Noyce Award (2008). He received the IEEE Medal of Honor (2011), and the R.O.C. Order of Propitious Clouds with Special Grand Cordon (2018).

Dr. Chang is a Member of National Academy of Engineering (U.S.A.), a Laureate of the Industrial Technology Research Institute (Taiwan), a Life Member Emeritus of MIT Corporation, and Fellow of the Computer History Museum (U.S.A.).



Distinguished Science and Technology



Dr. Tsu-Jae King Liu

Dean and Roy W. Carlson Professor of Engineering
College of Engineering, EECS Department
UC Berkeley

Citation:

For contributions to nanometer-scale field-effect transistor and micro-electro-mechanical relay technology for digital computation and memory applications

Tsu-Jae King Liu was born in Ithaca, NY and raised in the San Francisco Bay Area. She earned her B.S., M.S. and Ph.D. degrees in Electrical Engineering from Stanford University. From 1992 to 1996 she worked at the Xerox Palo Alto Research Center as a Member of Research Staff to research and develop thin-film transistor technology for high-performance flat-panel display applications. In August 1996 she joined the faculty of the Department of Electrical Engineering and Computer Sciences (EECS) at the University of California at Berkeley, where she is now Dean and Roy W. Carlson Professor of Engineering. Her past administrative leadership roles include Faculty Director of the UC Berkeley Microfabrication Laboratory, EECS Department Chair, Associate Dean for Research, and Vice Provost for Academic and Space Planning.

Dr. Liu's awards include the Ross M. Tucker AIME Electronics Materials Award for seminal work in polycrystalline silicon-germanium thin films, an NSF CAREER Award for research in thin-film transistor technology, the DARPA Significant Technical Achievement Award for development of the FinFET, the Electrical Engineering Award for Outstanding Teaching at UC Berkeley, the IEEE Kiyo Tomiyasu Award for contributions to nanoscale MOS transistors, memory devices, and MEMs devices, the Intel Outstanding Researcher in Nanotechnology Award, the SIA University Research Award, the SRC Aristotle Award, and the IEEE Aldert van der Ziel Award for distinguished educational and research contributions to the field of electronic devices and materials. She has authored or co-authored over 500 publications and holds over 90 U.S. patents.

Dr. Liu is a Fellow of the Institute of Electrical and Electronics Engineers (IEEE) and the National Academy of Inventors, and she an elected member of the U.S. National Academy of Engineering. She also serves on the Board of Directors for Intel Corporation.

Vertical sidebar containing the word 'engineer' in multiple languages: English, Korean (엔지니어), Chinese (工程師), Japanese (エンジニア), Hindi (इंजीनियर), and others. Includes the word 'insinyur' and 'ingegnere' in various scripts.

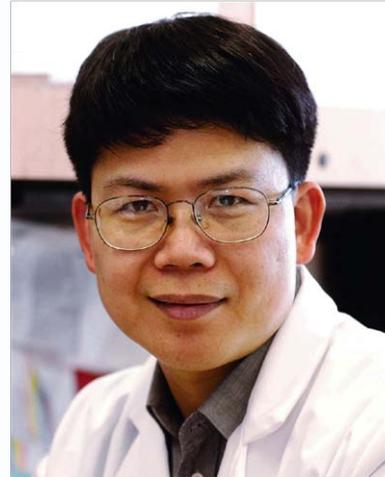


Distinguished Science and Technology



Dr. Zhijian 'James' Chen

Professor; Investigator of Howard Hughes Medical Institute
University of Texas Southwestern Medical Center



Citation:

For elucidating the biochemical mechanism underlying immune responses to DNA and RNA from the interior of the cell

Zhijian 'James' Chen received his B.S. degree in Biology in 1985 from Fujian Normal University and his Ph.D. degree in Biochemistry in 1991 from the State University of New York at Buffalo. After his postdoctoral training at the Salk Institute, Chen joined Baxter Healthcare in 1992 as a Research Scientist to work on Cancer Immunotherapy. In 1994, Chen became a Senior Scientist at ProScript Inc, a start-up biotechnology company where he helped discover the proteasome inhibitor VELCADE, a medicine used for the treatment of multiple myeloma and mantle cell lymphoma. In 1997, Chen joined the University of Texas Southwestern Medical Center (UT Southwestern) as an Assistant Professor and rose through the rank to become a Professor in 2005. Since 2005, Chen has been an Investigator of Howard Hughes Medical Institute. He is also George L. MacGregor Distinguished Chair in Biomedical Science and Director of Inflammation Research Center at UT Southwestern.

Chen has made a series of discoveries that transformed our understanding of cell signaling and innate immunity. These include the discovery of MAVS and cGAS, two proteins that play a central role in the recognition of bacteria and viruses as well as cancer cells by the body's immune system. These discoveries have led to intense efforts in the pharmaceutical industry in developing effective therapies against cancer and autoimmune diseases.

For his work, Chen has received numerous honors, including the National Academy of Science Award in Molecular Biology (2012), the American Society of Biochemistry and Molecular Biology (ASBMB) Merck Award (2015), and the Lurie Prize in Biomedical Sciences (2018). In 2018, Chen received the Breakthrough Prize in Life Sciences, the largest science prize in the world. Chen is a member of the National Academy of Sciences.

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Asian American Engineer of The Year



Dr. BorYann Liaw

Directorate Fellow
Idaho National Laboratory

Citation:

For contributions to battery safety and failure analysis, transportation electrification and e-Mobility, and energy conversion and storage.

Dr. Boryann (Bor Yann) Liaw currently is a Directorate Fellow at Idaho National Laboratory. He joined Idaho National Laboratory in May 2016 as Department Manager of Energy Storage and Advanced Vehicles. The department operates Battery Technology Center (BTC), Non-destructive Battery Laboratory for Evaluation (NOBLE), and Electric Vehicle Infrastructure Laboratory (EVIL), with more than 20,000 sq. ft. of laboratory testing facility and a wide range of testing capabilities to conduct performance, reliability, safety, and failure analyses of energy storage systems, advanced vehicles, charging devices and infrastructure, grid and behind-the-meter storage, and cybersecurity studies.

Since early 1990s, Dr. Liaw has been involved in R&D activities comprising laboratory and real-life battery and vehicle testing, data collection and analysis, battery modeling and simulation, battery performance and life prediction, battery fast charging technology development, and battery failure mode and effect analyses. He also works on bio-fuel cells, including sugar-air alkaline battery development, and transforming ambient energy resources into useful power sources for portable or stationary applications.

He received his bachelor's in chemistry from National Tsinghua University in Taiwan, his master's in chemistry from University of Georgia, and doctorate in materials science and engineering from Stanford University. Dr. Liaw is a Fellow of the Electrochemical Society. He has been actively involving in professional services, including serving in several editorial boards, associate editorships. He is past President of International Battery Materials Association and serves as Scientific Advisors for several international and national programs including Department of Energy's Energy Frontier Research Center at Stony Brook University.



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Asian American Engineer of The Year



Sameer Pendharkar

TI Senior Fellow &
Analog Technology Development Manager
Texas Instruments Incorporated

Citation:

Technical Leadership and Innovations in the field of high voltage and power semiconductor device architecture and technology.

Sameer Pendharkar's innovative leadership and technical contributions have resulted in TI consistently achieving the best in-class, cost efficient and smallest power devices in the world over multiple power technology generations.

Sameer joined Texas Instruments Incorporated (TI) in 1996 and is currently a TI Senior Fellow and the Analog Technology Roadmap Manager inside the company's Analog Technology Development. He and his team are responsible for setting and executing the overall analog technology development strategy for TI.

Over the years, Sameer has been instrumental in enabling TI to enter and compete in the high voltage market space through the definition and development of TI-first high voltage silicon and gallium nitride technologies. He has published over 90 technical papers in the broad area of power and high voltage technology in leading academic journals and conferences and has been granted more than 170 U.S. patents.

As a member of the IEEE-EDS Power Devices and Integrated Circuit Committee, Sameer helped co-create a first-of-its-kind, yearlong, eight session webinar course given by industry experts and university faculty. This was available for all IEEE members across the nation to help increase the interest of young engineers in the field of power electronics.

He also gave short courses and tutorial presentations on power device technology and modeling at the University of Texas at Dallas, Indian Institute of Technology Mumbai and IEEE-EDS Orlando Chapter (University of Central Florida).

For his work on power device architecture and technology, Sameer was awarded the prestigious Edith and Peter O'Donnell Award for Technology Innovation by The Academy of Medicine and Science of Texas (TAMEST).

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insinyur
insinyur
jurutera
பொறியாளர்
ingegnere
inhinyero
inženýr
mémnök
кү су



Asian American Engineer of The Year



Trung Tran

Electronic Engineer
United States Navy

Citation:

Sustained leadership and strategic vision laid the groundwork for the successful fruition of the OPNAV initiated US Navy Fleet-Wide Identification Friend or Foe (IFF) Mode 5 installation being accelerated from five years to three years.

Mr. Trung Tran has been an Electronic Engineer at Naval Air Warfare Center – Aircraft Division (NAWCAD) 4.11.2 Combat Integration and Identification Systems Division since 2002. Trung leads multiple projects, including Fleet upgrades to the latest capability of Identification Friend or Foe (IFF), Designated Overhaul Point of the IFF Antenna, and IFF Field Service Engineering. Trung actively works across multiple Programs, Sponsors, Departments, and Agencies to meet technical and programmatic objectives. In Fiscal Year 17, Office of the Chief of Naval Operations (OPNAV) initiated a Fleet-Wide Acceleration of IFF Mode 5 installations down from five years to three years due to the requirement to be completed before 2020. OPNAV strategically implemented this requirement for a common configuration across different battle groups.

As the Navy’s Lead Engineer responsible for the Mode 5 Fleet Modernization Program, this increased Trung’s workload by approximately 40% requiring Mode 5 installations to be complete within the first 60% of the allotted time of the initial fielding plan schedule. Trung had to provide around the clock planning of installation support requirements and constantly modify ship installation schedules and visits, acquire installation authorizations, coordinate shipyard support services, and gain Alteration Installation Team installation approvals. Trung’s leadership in the Fleet Modernization Program has resulted in the completion of approximately 85% of the required IFF Mode 5 installations. The remaining installations are scheduled for completion within the 2020 mandate.

Mr. Tran is originally from Vietnam and moved to United States in 1991. He lived in Glendale Heights, Illinois from 1991 to 2002. Trung attended University of Illinois Urbana-Champaign and graduated with a Bachelor of Science degree in Electrical Engineering in 2001. He currently lives in Lexington Park, Maryland with his wife. In his spare time, he enjoys working on his cars and scooters, and running on treadmill. He loves traveling on cruise ships for vacation.



Engineering terms in various languages: English (engineer, ingegnere, insinyur, jurutera, inhinyero, mernök, kÿ sur), Chinese (工程師), Vietnamese (kỹ sư), and others.



Asian American Engineer of The Year



Dr. Weidong Song

Technical Fellow
The Boeing Company

Citation:

A prolific, internationally renowned innovator in nanotechnology, advancing aerospace materials and manufacturing technologies for a quality and cost-competitive edge.

Dr. Weidong Song is a technical fellow and senior composite materials and process engineer with Boeing Commercial Airplanes. He is an internationally recognized and prolific innovator with more than 40 invention disclosures and patents in the areas of composite materials and processes; drag reduction technologies; bonding and joining; airplane sealing; and automated manufacturing systems. Weidong has authored more than a dozen papers in the field of space propulsion, aerospace materials, and nanotechnology. He has served as guest editor and referee for world renowned scientific journals.

Before his current role, Weidong served from 2004 to 2012 as a lead structures engineer and led multi-disciplinary teams supporting the design and certification of the 787 payloads system. During the development of the 787, his technical knowledge and leadership skills helped solve many complex technical issues and achieve major weight savings.

Honoring his outstanding contributions to advancing aerospace technologies and The Boeing Company's competitive advantage, Weidong was recognized with the Boeing Commercial Airplanes Engineer of the Year award in 2012. He was also selected as an Outstanding Young Engineer by the National Academy of Engineering to attend the 2013 Frontiers of Engineering Symposium. In 2014, he won the Most Promising Asian American Engineer of the Year award by the Chinese Institute of Engineers-USA.

As a volunteer, Weidong is actively involved in the Boeing After-School STEM Academy, promoting science, technology, engineering, and mathematics education in elementary schools in Washington.

A native of Shandong province in China, Weidong moved to the United States in 1998. He acknowledges the hurdle of overcoming culture shock. With a mindset of respect for different cultures and traditions, his leadership style is one of bridging differences.

Weidong is married with two children. In his spare time, he enjoys gardening, sailing, and traveling with family.

International word for Engineer in various languages:
Hindi: इंजीनियर (insinyur)
Chinese: 工程師 (jūruterā)
Korean: 엔지니어 (injenyūr)
Japanese: 工学者 (ingēnīyūr)
Arabic: مهندس (mērnōk)
Tagalog: inhinyero (ingēnīyūr)
Hebrew: דוגמה (dōgmā)
Burmese: မြန်မာ (mērnōk)
Thai: วิศวกร (insinyur)
Vietnamese: kỹ sư (kỹ sư)
Indonesian: insinyur (insinyur)
Malay: jurutera (jūruterā)
Filipino: inhinyero (inhinyero)
Yiddish: דאָקטאָר (dōgmā)
Persian: مهندس (mērnōk)
Urdu: مهندس (mērnōk)
Sinhala: ඉජිනියර් (ingēnīyūr)
Tamil: இயினியர் (ingēnīyūr)
Telugu: ఇంజనీయర్ (ingēnīyūr)
Gujarati: ઇન્જિનિયર (ingēnīyūr)
Bengali: ইঞ্জিনিয়ার (ingēnīyūr)
Vietnamese: kỹ sư (kỹ sư)
Indonesian: insinyur (insinyur)
Malay: jurutera (jūruterā)
Filipino: inhinyero (inhinyero)
Yiddish: דאָקטאָר (dōgmā)
Persian: مهندس (mērnōk)
Urdu: مهندس (mērnōk)
Sinhala: ඉජිනියර් (ingēnīyūr)
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Gujarati: ઇન્જિનિયર (ingēnīyūr)
Bengali: ইঞ্জিনিয়ার (ingēnīyūr)



Asian American Engineer of The Year



Dr. Dasari V. Rao

Program Director
Los Alamos National Laboratory

Citation:

Recognized expert in the design and risk assessment of commercial and defense nuclear systems.

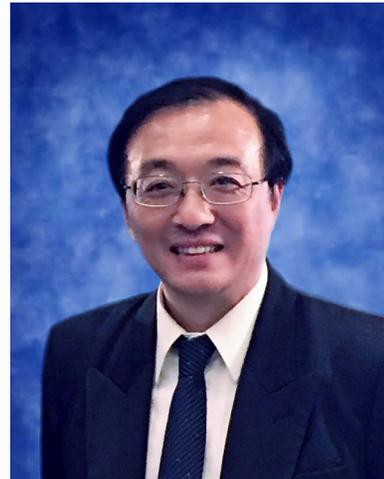
Dr. Rao received Master of Technology in Nuclear and Mechanical Engineering from the Indian Institute of Technology, Kanpur, India in 1984 with a specialty in the design of integral economizer U-tube heat exchangers. He completed his Ph. D in Chemical and Nuclear Engineering at the University of New Mexico in 1989 specializing in computational fluid dynamics and two-phase heat transfer. He rose through the ranks at the Los Alamos National Laboratory serving first as the technical staff member, leading up to distinguished R&D scientist. He also served in a number of senior leadership positions including as the Division Leader for the Decision Applications Division. He has a distinguished career in nuclear design, safety and security assessments with direct experience on the commercial and defense nuclear systems. He received four Los Alamos Distinguished Performance Awards, a Sandia National Laboratories' Meritorious Award, two DOE/NNSA Manager's Performance Excellence Awards and two US NRC Certificates of Appreciation. His career objective has been to design an innovative class of reactors that are safe, secure and economical and, most importantly, can be integrated into renewable microgrids. He has also been part of a team of engineers at Los Alamos engaged in the design of self-regulating nuclear reactors for power generation at remote locations and space.

Dr. Dasari V. ("DV") Rao currently serves as the Program Director for Civilian Nuclear Programs at Los Alamos National Laboratory. In this role, he has responsibility for all programs at the Laboratory associated with the Nuclear Regulatory Commission, DOE's Office of Nuclear Energy and DOE's Office of Environmental Management. He also advises Laboratory senior management on matters at the intersection of nuclear energy, space exploration and national security. He currently serves as a member of the Advisory Council to the Nuclear Engineering Department at the University of New Mexico.

Dr. Rao was born and brought up in rural India. He immigrated to US in 1984 as a Ph. D. student and subsequently became a naturalized US Citizen. He is married to Dr. Anjali Dasari (M.D.) and lives in Los Alamos, New Mexico. He has two sons. He enjoys hiking and volunteering.



Asian American Engineer of The Year



Dr. Rulei Ting

Area Manager, MTS
AT & T

Citation:

For architectural leadership in evolution of dynamic network resource management and software defined networks with next-gen adaptive and self-healing communication

Dr. Ting has been with AT&T & Bell Labs for 20+ years, with responsibilities from Distinguished Member of Technical Staff to Senior Technical Director and Area Manager MTS. He is a major contributor and technology leader in systems architecture and software engineering advancements in telecommunications. He contributed to Optical Networking Systems FT2000 which became an outstanding technology and industry success, delivering multi-billion dollar revenue that served as backbone of telecommunication over last decades.

He was instrumental in architecture and design of Add/Drop SONET/SDH self-healing systems; helped creating Bell Labs' network management platform including surveillance, performance, billing, provisioning and maintenance. Rulei was in Bell Labs Machine Learning Research on image recognition which became foundation of today's widespread automatic check-reader in mobile devices. He applied deep learning to network traffic congestion control; was early pioneer to apply adaptive and multi-scale Wavelets to network traffic analysis that enhanced detection of potential fiber faults; successfully demonstrated traffic forecasting and dynamic resource allocation using Wavelets. Rulei has been at the center of many landmark events of commercial grade business Voice-over-IP systems and services.

His work contributed to SIP and soft-switch architecture and design of the next generation heterogeneous communication encompassing MPLS, IP, ATM, VPN, and PSTN with needs in surveillance solutions. Rulei has been leading a team of system technologists, architects and engineers designing platform and systems for master service orchestration, inventory management, network resource management and scheduler, and SDN controllers, for AT&T Software Defined Network and Network Function Virtualization platform geared toward next generation network scaling and 5G network operation. The work by this team and the corporate's audacious vision in SDN and open source has transformed the pace of communication industry's innovation and advancement.

Rulei served as Senior Director in telecommunication equipment start-ups, as well as on the Board of Governors of IEEE ComSoc. Rulei was awarded AT&T Bell Labs President Award; IEEE Millennium Award; IEEE Region1 Award, and the President's Volunteer Service Gold Award of USA. He earned B.S. from Shanghai JiaoTong University; Ph.D. from CUNY; and Executive Master's in Technology Management at Wharton and Penn Engineering of University of Pennsylvania.

Vertical sidebar containing the word 'engineer' in various languages: English, Korean (엔지니어), Chinese (工程師), Japanese (エンジニア), Hindi (इंजीनियर), Spanish (ingeniero), Russian (инженер), Hebrew (מהנדס), Arabic (مهندس), Vietnamese (kỹ sư), and others.



Asian American Most Promising Engineer of The Year



Michael Louie

Materials and Processes engineer
The Boeing Company

Citation:

A young technical leader in composites automation who has led multiple innovative, significant-impact projects improving composites manufacturing for The Boeing Company.

Michael Louie is a materials and processes engineer with The Boeing Company, where he is a technical leader in composites automation for new middle-market aircraft (NMA) production systems. Currently leading much of the Boeing lamination development, Michael holds multiple patents and his work is driving industry strategy and influencing lamination suppliers.

Michael has a Bachelor of Science in mechanical engineering from the University of Washington and a Master of Science in mechanical engineering from North Carolina State University. He joined Boeing in 2006 and has led programs such as structural wrinkle coupon development, lean wing skin bagging, root-cause corrective actions and 777X wing spar development. In 2015 he began leading a team to implement the newly developed 777X one-piece wing spar fabrication process into production. Realizing significant weight and manufacturing cost savings, his leadership was recognized with a Boeing Commercial Airplanes Team of the Year award and a Boeing Research and Technology Performance and Innovation award in 2017. His 777X spar work enabled a new process for laminating complex geometry and influenced equipment and process development that is a focus today.

Developing leadership instincts has been a process for Michael. He says, “As a Chinese Asian-American, my cultural upbringing has raised me to be reserved and highly respectful of authority, making it difficult to challenge authority. ... In my work I constantly have to push for what I believe in and question the status quo. I’ve learned that to advance, you have to be someone that is well known, connected, and sought out.” Fine-tuning his insights, Michael has made great advancements as a technical leader for teams with significant impact.

Michael and his wife are deeply involved in their community, especially with Way Back Inn, a nonprofit that operates houses in Renton, Washington, for families transitioning from homelessness and its margins. Michael is an active board member, helping to maintain the homes, filling the role of treasurer, and co-chairing Way Back Inn’s auction, its major annual fundraiser.



Vertical sidebar containing the word 'engineer' in various languages: English, Spanish (ingeniero), French (ingénieur), Korean (엔지니어), Chinese (工程師), Japanese (エンジニア), Hindi (इंजीनियर), Arabic (مهندس), Russian (инженер), Hebrew (מהנדס), Indonesian (insinyur), Vietnamese (kỹ sư), Thai (วิศวกร), Tagalog (inginyero), and others.



Asian American Most Promising Engineer of The Year



Christina Choe

Software Application Lead
General Motors

Citation:

For her leadership, dedication and foresight in crafting Information Technology testing methods, along with leading software development teams on innovating code and streamlining development processes.

Christina Choe is a Korean-American independent woman who adopted both cultures in her life. She was born and raised in Tacoma, Washington until she was 7 years old. Then she moved to South Korea and spent most of her childhood. When she was 17 years old, she moved back to Tucson, Arizona in the United States to study. She decided to study IT and Business, because she wanted to understand the business process and contribute to improving it utilizing IT system. She graduated with the Bachelor of Science degrees of Management Information System and Operation Management in 2013.

In January 2014, she got hired by General Motors (GM) and started her first corporate career as a New College Hire. She started as a software tester in the Quality Test organization. She led one of the larger IT projects to test and deliver results on time while learning GM testing process and IT organization culture. Then in 2015, she moved to the Customer Care Aftersales (CCA) Test organization as a Test Lead. She began to develop her people management and leadership skills, by leading her team members and others. After 3 years of software testing experience, she decided to get a new role to provide diverse experiences and build a stronger leadership skill.

In 2017, she moved to CCA Development team. Since she has a strong testing experiences, she had an opportunity to help System/Business Analysis Team to build requirements together. She traveled to Korea with GM North America business team members to learn the business process and build a stronger and trustful relationship between IT and Business. Her first Development position was the Data Analyst Lead for the project. She led and worked with her team to launch the application ahead of time.

Currently, she is an Application Development Lead for one of the GM's critical application which sets the part pricing and generates billions of revenues per year for GM.



Engineering terms in various languages:
mea ho'okele
ingénieur
엔지니어
എൻ്റെനീയർ
engineer
工程師
mémnòk
ky' sur
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Technical Executive Forum



Panelist: Mark Carpenter

Senior Vice President, T&D Operations
Oncor Electric Delivery Company

Mark Carpenter is Senior Vice President of Transmission & Distribution Operations at Oncor where he has spent his entire 44 year career. Throughout his career, he has focused on developing people and creating high performance teams. Mark earned a BSEE degree at Texas Tech in 1975 and is active in numerous professional activities. He is also active in the community as demonstrated by his involvement with the Chinese Institute of Engineers DFW Chapter and as President of Family Promise of Irving. He is active in his church and is married with five kids, four daughters-in-law, and seven grand kids.



Panelist: Dr. Naveed Hussain

Vice President & General Manager,
Boeing Research & Technology
The Boeing Company

Naveed Hussain is the vice president and general manager of Boeing Research & Technology (BR&T), the advanced central research and development unit of The Boeing Company. As a trusted research, technology and technical leader, BR&T develops innovative technologies that break barriers, enabling the development of future aerospace solutions while improving the cycle time, cost, quality and performance of existing Boeing products and services. Named to this position in 2018, Hussain leads a team of scientists, technologists, technicians and engineers who collaborate with research and development partners worldwide to solve the aerospace industry's toughest challenges. He has oversight of operations at five research centers in the U.S. including Alabama, California, Missouri, South Carolina and Washington, as well as six research centers in Australia, Brazil, China, Europe, India and Russia.

Prior to this assignment, Hussain was the vice president of Aeromechanics Technology for Boeing. Previously, he led Platform & Networked Systems Technology for BR&T, launched the BR&T-India research center in Bangalore and directed Boeing Defense, Space, & Security Flight Engineering. He holds four patents and joined the company in 1990 as a Howard Hughes Doctoral Fellow. Hussain earned a Bachelor of Science degree from Rensselaer Polytechnic Institute and a Master of Science degree and a Doctor of Philosophy degree from Stanford University, all in mechanical engineering. He also completed a master's degree in business administration from the Wharton School, University of Pennsylvania.

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Work that matters



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AT&T is where people come to invent the future. That's been our legacy since the very beginning. The AAEOY (Asian American Engineer of the Year) award embodies this legacy by honoring the most distinguished professionals for their leadership, technical achievements and remarkable public services every year.

Congratulations to AT&T's own Dr. Rulei Ting and all of the 2019 AAEOY Award winners!

To learn more visit: about.att.com/innovation

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2019 Technical Symposium

Keynote Session

Legacy-C/D/E Ballroom

Honorary Symposium Chair: Dr. Peter Crouch

Symposium Chair: Simon Chang

Moderator: Dr. Peter Crouch, Dean, College of Engineering, The University of Texas at Arlington

- 1:00 - 1:05 PM *Opening Remarks*
Dr. Peter Crouch, Dean, College of Engineering,
The University of Texas at Arlington
- 1:05 - 1:30 PM Keynote Speech 1: *“Inventing a Better Now”*
Dr. Alexa Dembek, Chief Technology and Sustainability Officer, DuPont
- 1:30 - 1:55 PM Keynote Speech 2: *“Why a world with AI needs more EQ”*
Dr. Tsu-Jae King Liu, Dean, College of Engineering,
The University of California at Berkeley
- 1:55 - 2:20 PM Keynote Speech 3: *“Technology Fusion for Novel Discovery
and Technology Management”*
Dr. Sean Wang, President, Industrial Technology Research Institute (ITRI)
International Inc.

Session 1 – Artificial Intelligence, Machine Learning, and IoT

Windrose-1 Ballroom

Moderator: Dr. Andrew Stevens, Machine Learning Scientist, Sivannanathan Laboratories

- 2:30 - 2:55 PM *“Artificial Intelligence for Autonomous Resiliency in Software Defined Network”*
Dr. Rulei Ting, Senior Manager, AT&T
- 2:55 - 3:20 PM *“Digital Fusion for Smart Cities”*
Dr. Shuo-Yan Chou, Professor and Director of IoT Innovation Center,
National Taiwan University of Science and Technology
- 3:30 - 3:55 PM *“Artificial Intelligence: The Road Forward”*
Dr. Gopal Gupta, Department Head, Computer Science,
The University of Texas at Dallas
- 3:55 - 4:20 PM *“Execution is Everything: Delivering Data Science Projects with Impact”*
Sabina Stanescu, Principal Data Scientist, Altair
- 4:20 - 5:00 PM **Networking**



2019 Technical Symposium

Session 2 – Energy is Technology’s Next Big Thing

Windrose-2 Ballroom

Moderator: Bill Muston, R&D Manager, Oncor Electric Delivery Company

- 2:30 - 2:55 PM *“Power Electronics Technology for Tomorrow’s Solutions”*
Sameer Pendharkar, Senior Fellow and Analog Technology Development Manager,
Texas Instruments Incorporated
- 2:55 - 3:20 PM *“Battery Technology and Safety”*
Dr. Boryann Liaw, Directorate Fellow, Idaho National Laboratory
- 3:30 - 3:55 PM *“No More Cords: Wirelessly Transferred Electricity May Power the World’s Future”*
Matthew Watson, General Manager, Texas Instruments Incorporated
- 3:55 - 4:20 PM *“Converging Technologies to Improve the Distribution Control Room”*
Tony Bruton, Director of T&D Services, Oncor Electric Delivery Company
- 4:20 - 5:00 PM **Networking**

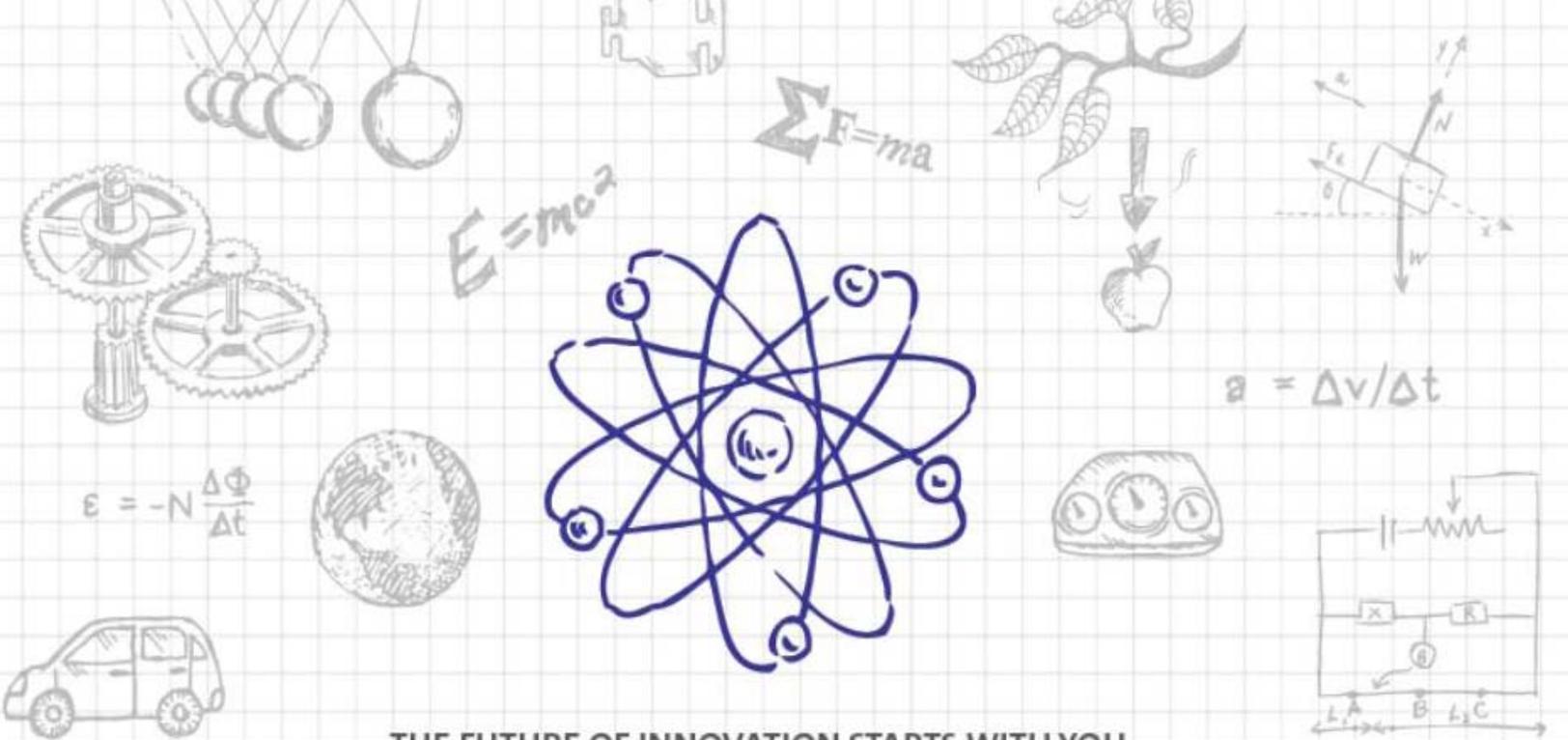
Session 3 – Leadership & Career Development

Windrose-3/4 Ballroom

Moderator: Rod Wetterskog, Assistant Dean, The University of Texas at Dallas

- 2:30 - 2:55 PM *“Building and Sharing a Personal Leadership Philosophy”*
Gary Hamatani, Director - Chief Project Engineer, The Boeing Company
- 2:55 - 3:20 PM *“Leadership is a Journey, Not a Destination”*
Debbie Dennis, Chief Customer Officer and SVP Human Resources
& Corporate Affairs,
Oncor Electric Delivery Company
- 3:30 - 3:55 PM *“Authenticity Propels Leadership”*
David Lu, Vice President, AT&T
- 3:55 - 4:20 PM *“Academic Leadership, Management, and Administration”*
Dr. Hanchen Huang, Dean, College of Engineering, The University of North Texas
- 4:20 - 5:00 PM **Networking**





THE FUTURE OF INNOVATION STARTS WITH YOU.

General Motors is proud to celebrate one of our own, Dr. Mei Cai, as this year's Asian American Engineer of the Year. Thank you for your dedication to our business and the engineering field.

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Stan Chow
2019 Asian American Most Promising Engineer of the Year



Symposium Keynote Speaker



Dr. Alexa Dembek

Chief Technology and Sustainability Officer
DuPont

Inventing a Better Now

Dr. Alexa Dembek is the Chief Technology & Sustainability Officer for DuPont. A 28-year DuPont veteran, she champions the company's entrepreneurial mindset to spur growth, while fostering close collaboration with customers.

Today, Alexa leads business and innovation strategy alignment to make the most impactful portfolio choices for DuPont. She is passionate about elevating the role sustainability plays in these investment decisions and how DuPont can help customers achieve their own sustainability ambitions with our solutions.

Alexa holds a Bachelor of Science degree in Chemistry from Northern Illinois University and a PhD in Chemistry from Pennsylvania State University. Alexa is based in Wilmington, Delaware and she resides in Kennett Square, Pennsylvania, with her husband Scott and their three sons.

Abstract:

It's common to talk about the future – what it will look like and how we can live better, tomorrow. But DuPont doesn't look at the world that way. Our teams apply diverse expertise to help our customers today, by delivering essential innovations in key markets including electronics, transportation, construction, water, health and wellness, food and worker safety. In short, DuPont innovations are everywhere around us and are driven by the essential needs of our planet and our customers. My talk will highlight how marrying together our scientific capabilities with the U.N.

Sustainable Development Goals drives these essential innovations, how we are fusing our scientific capabilities to achieve results right now and how we tap into the diversity of our global culture to win in the marketplace.



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mémnök
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Symposium Keynote Speaker



Dr. Tsu-Jae King Liu

Dean, College of Engineering
The University of California at Berkeley

Why a world with AI needs more EQ

Tsu-Jae King Liu was born in Ithaca, NY and raised in the San Francisco Bay Area. She earned her B.S., M.S. and Ph.D. degrees in Electrical Engineering from Stanford University. From 1992 to 1996 she worked at the Xerox Palo Alto Research Center as a Member of Research Staff to research and develop thin-film transistor technology for high-performance flat-panel display applications. In August 1996 she joined the faculty of the Department of Electrical Engineering and Computer Sciences (EECS) at the University of California at Berkeley, where she is now Dean and Roy W. Carlson Professor of Engineering. Her past administrative leadership roles include Faculty Director of the UC Berkeley Microfabrication Laboratory, EECS Department Chair, Associate Dean for Research, and Vice Provost for Academic and Space Planning.

Dr. Liu's awards include the Ross M. Tucker AIME Electronics Materials Award for seminal work in polycrystalline silicon-germanium thin films, an NSF CAREER Award for research in thin-film transistor technology, the DARPA Significant Technical Achievement Award for development of the FinFET, the Electrical Engineering Award for Outstanding Teaching at UC Berkeley, the IEEE Kiyoo Tomiyasu Award for contributions to nanoscale MOS transistors, memory devices, and MEMS devices, the Intel Outstanding Researcher in Nanotechnology Award, the SIA University Research Award, the SRC Aristotle Award, and the IEEE Aldert van der Ziel Award for distinguished educational and research contributions to the field of electronic devices and materials. She has authored or co-authored over 500 publications and holds over 90 U.S. patents.

Dr. Liu is a Fellow of the Institute of Electrical and Electronics Engineers (IEEE) and the National Academy of Inventors, and she an elected member of the U.S. National Academy of Engineering. She also serves on the Board of Directors for Intel Corporation.

Abstract:

The rapid pace of technological innovation has resulted in a dynamic and unpredictable world that is increasingly dependent on engineered devices, processes and systems. A 2017 workforce report by the McKinsey Global Institute indicates that all workers will need to adapt as their occupations evolve with increasingly capable machines. In the age of artificial intelligence (AI), workers will spend more time on activities that require social and emotional skills, creativity, high-level cognitive capabilities and other skills that are relatively hard to automate.

There is growing evidence of the importance of a high emotional quotient (EQ) as a predictor of success and organizational performance. It is clear that a high EQ will be necessary for individuals to succeed in a rapidly evolving workplace. This is not to say that core competency in technical skills is not important, but rather that EQ is what makes a leader stand out among peers of comparable IQ. In a World Economic Forum Future of Jobs report, "human skills" such as emotional intelligence, leadership and social influence are qualities that will see increased demand in the future.

In this talk I will describe some initiatives being undertaken in the College of Engineering at the University of California, Berkeley to cultivate EQ in our students so that will succeed as innovators and be effective leaders in our global society, toward a brighter future for all.



Engineering in various languages: English (engineer, ingénieur, mernök, kŷ sur), Hebrew (מהנדס, מהנדסת, מהנדסות, מהנדסות), Chinese (工程师, 工程師), Korean (엔지니어, 엔지니어), Japanese (エンジニア), and others.



Symposium Keynote Speaker



Dr. Sean Wang

President,
*Industrial Technology Research Institute (ITRI)
International Inc.*

Technology Fusion for Novel Discovery and Technology Management”

Sean Wang is the President of ITRI International Inc. (San Jose, California), a subsidiary of ITRI, since June 2005.

ITRI International Inc. is ITRI's presence in North America. It engages in incubation of startups, in Silicon Valley and from Taiwan, technology transfer, IP business, high-level training, and recruiting as well as and facilitates R&D collaboration and contract research. The incubation practice has involved, in various degrees, with more than 150 startups in Silicon Valley and from Taiwan to accelerate technology and/or product development by partnering up with ITRI's labs, to get product validation from major early customers, to explore broader market applications in Asia and beyond, and to be considered for venture funding.

Sean first joined ITRI in July 2004 and was the General Director of Industrial Economics Knowledge Center (IEK) until Oct. 2005. IEK conducts market research, strategic planning, and business consulting for various industrial sectors.

Between Feb. 2016 and Aug. 2018, Sean was also the General Director of ITRI's International Center (Hsinchu, Taiwan). At ITRI's International Center, Sean and the team have built collaboration platforms to facilitate collaborations between various R&D teams, at ITRI and other R&D organizations as well as Taiwanese companies, with international partners, including government agencies, R&D organizations, universities, large companies and startups.

He was trained in Chemical Engineering with Ph.D. and M.S. degrees from West Virginia University and B.S. degree from National Taiwan University.

Abstract:

The awareness of technology fusion started in the 1980s. In the 1990s, technology fusion attracted more attention when diffusion and convergence among a few important technologies began to have a significant impact on the products and strategies of firms in several industries from ICT to consumer electronics, to pharmaceuticals.

Technology fusion can be for frontier scientific, especially life science-centric, exploration, which could eventually emerge to novel disciplines and feasible new commercial solutions, and can also be as an integral part of strategy for technology management and product development efforts. The former is an approach with the value in high-risk, high-payoff approaches to discovery and invention. Whereas, the later is adept at using a diversity of technologies to create new products that transform markets. This presentation will discuss the approaches, and selective example organizations, of the combination of experts, from several different fields, and interdisciplinary scientist-leaders as well as the acceleration of new ideas and discoveries. Will also discuss the drivers of merged technologies and the setting of increasing the likelihood of generating new fusions. This will contribute to corporate technology management with the engagement of high-value innovation networks that enable industry cross-overs and technology fusion. Examples will also be given for corporates with visions and practices of technology fusion as a part of technology and competitive strategies.



Vertical sidebar containing the word 'engineer' in multiple languages: English, Chinese (工程師), Japanese (エンジニア), Korean (엔지니어), Hebrew (מהנדס), Hindi (इंजीनियर), Arabic (مهندس), and others. Includes the ITRI logo and the text 'mea ho'okele'.



Symposium Speaker

Artificial Intelligence, Machine Learning, IoT

Artificial Intelligence: The Road Forward

Gopal Gupta is the head of the Computer Science Department at the University of Texas at Dallas where he holds the Erik Jonsson professorship. His areas of research interest are in automated reasoning, computational logic, machine learning, programming languages, and assistive technology. He has published extensively in these areas. His group has also authored many software systems, many of which are publicly available. His research work has also resulted in commercial software systems that have formed the basis of two startup companies. He has won several best-paper awards as well as the ICLP 2016 most influential paper award for his work on coinductive logic programming. He obtained his MS & PhD degrees from UNC Chapel Hill in 1987 and 1991, respectively, and his B.Tech in Computer Science from IIT Kanpur, India, in 1985.

Abstract:

The field of Artificial Intelligence (AI) is currently receiving a lot of attention. Two major components of intelligent behavior are the ability to reason and the ability to learn. In the context of AI, these are referred to as machine learning and automated reasoning, respectively. We will give an overview of machine learning and automated (common sense) reasoning, as well as discuss their limitations. We will argue that both machine learning and automated (common sense) reasoning are essential to the success of the AI enterprise.



Dr. Gopal Gupta

Department Head
Computer Science
The University of Texas at Dallas

Execution is Everything: Delivering Data Science Projects with Impact

Sabina's love for statistics and data brought her on a journey from academia to Data Science in industry. Sabina completed her MSc in Plant Ecology at the University of Guelph, after which she started her journey in Data Science at Angoss Software.

Sabina is currently the Principal Data Scientist at Altair, working in the Business Data Science team to solve a wide variety of Data Science problems across different industries and use cases. Previously, she had worked at Points as Lead Data Scientist in Marketing and as Lead Product Manager for Machine Learning, where she was integrating machine learning into Points' products.

Abstract:

As Data Science professionals, we all want to do innovative, impactful work. Thus, our work on data munging and building machine learning models cannot happen in isolation from business objectives and infrastructure of our organizations. In this talk, I will explore ways to identify impactful, executable Data Science work, and how it can make to production. I will discuss what it means to have a model in production, including ways to score the model in real-time versus batch, and how to have model scores available for your application, such as through an API or database. Finally, I will tie everything together with some of the processes and frameworks that allow for iteration and testing to complete the full life-cycle of model deployment..



Sabina Stanescu

Principal Data Scientist
Altair



Symposium Speaker

Energy is Technology's Next Big Thing



Sameer Pendharkar

**Senior Fellow
and Analog Technology
Development Manager
Texas Instruments Incorporated**

Power Electronics Technology for Tomorrow's Solutions

Sameer did his undergraduate and graduate studies in Electrical Engg. at IIT Bombay and at the University of Wisconsin-Madison. He joined Texas Instruments Incorporated in 1996 and is currently a TI Senior Fellow and Technology Roadmap Manager. He and his team are responsible for setting and executing the overall technology development strategy for TI. He has published over 90 technical papers and given numerous short course and tutorial presentations in power technology and has been granted more than 170 U.S. patents. For his work, Sameer was awarded the prestigious Technology Innovation award by The Academy of Medicine and Science of Texas (TAMEST).

Abstract:

With increasing population and increase in per capita energy consumption and limited energy resources, it is critical to not only look at alternate energy sources but also to improve the efficiency in how this energy is used. Power electronics technology is critical in improving the efficiencies in generation, conversion, storage and use of energy and is instrumental for the future. Improvements in power technology are driving key application areas like electric and hybrid vehicles as well as enabling increased industrial automation. The presentation will talk about some of the key innovations and technological developments in high power electronics along with trends and performance improvements achieved in the industry.



Dr. BorYann Liaw

**Directorate Fellow
Idaho National Laboratory**

Battery Technology and Safety

Dr. Boryann (Bor Yann) Liaw is a Directorate Fellow in the Energy & Environmental Science and Technology Directorate at Idaho National Laboratory. His research focuses on fundamental studies of battery reliability, safety, and failure analyses, electrification of advanced vehicles and charging infrastructure. Dr. Liaw received his doctorate in materials science and engineering from Stanford University. He is a Fellow of the Electrochemical Society and past President of International Battery Association. He was a university faculty member at the University of Hawaii and professional consultant in industry for more than 27 years before joining INL in May 2016.

Abstract:

Lithium-ion battery technology is propelling the electrification of our daily life deep into high-bandwidth telecommunication, e-commerce, renewable power generation, grid infrastructure modernization, and transportation/mobility. Reliability and safety remain as grievous concerns for market acceptance. There is a significant knowledge gap in the battery technology deployment. How to improve the reliability and safety of lithium-ion batteries is not a trivial question and a grand challenge for the battery research. Here the fundamental technology barriers will be explained and possible solutions discussed. A quantitative failure mode and effect analysis needs to be developed to address reliability and safety issues at a very refined level in order to mitigate the risks.



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ky sur



Symposium Speaker

Energy is Technology's Next Big Thing



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No More Cords: Wirelessly Transferred Electricity May Power the World's Future

Matt Watson is currently the General Manager for the C2000 Microcontroller business at Texas Instruments Incorporated. Under Matt's leadership the business has experienced significant growth in digital power and motor control applications. Prior to joining C2000, Matt managed the Automotive Infotainment Processors business at TI leading several generations of successful automotive processors to help TI achieve market leadership. Prior to joining TI, Matt held research and development positions at Dolby Laboratories and Motorola Semiconductor. He holds Engineering and Music degrees from the University of Miami, FL.



Matthew Watson

General Manager
Texas Instruments Incorporated

Abstract:

The push for high-power wireless power transfer has accelerated over the last few years in parallel with the growth of industrial automation and autonomous systems. Wireless power will have an impact in the Industrial Internet of Things, which is the rapidly expanding collection of connected machines, computers and sensors that is making everything from healthcare to airplanes and energy production smarter and more efficient. Additionally, there are opportunities to replace expensive and bulky charging cabling from electric vehicles, which can speed the adoption and improve convenience for consumers while maintaining high efficiency. Wireless power transfer will allow these devices to be more mobile and, with no need for plugs and connectors, to be built fully sealed so they can operate reliably in a range of challenging, variable environments.

Execution is Everything: Delivering Data Science Projects with Impact

Mr. Bruton earned his Bachelor's of Science in Electrical Engineering from Texas Tech University in 2000. He began working for Oncor as a substation design engineer. For several years, he managed Oncor's high voltage grid in east Texas then managed the group that designed and built high voltage transmission lines. He also managed the routing and acquisition of rights of way for new lines in west Texas. Mr. Bruton's current role as Director of T&D Services involves ensuring a reliable computer system that monitors and controls Oncor's Transmission and Distribution.



Tony Bruton

Director of T&D Services
Oncor Electric
Delivery Company

Abstract:

Operation of the electric utility control room has become more efficient through converging technologies. The implementation of intelligent devices and associated mesh telecommunications allows for powerful, after the fact, data collection as well as real time grid evaluation. Those devices such as team operated switches and fault locating sensors are being deployed on a large scale. Accurate digital connectivity models and spatial models are combining to provide improved control and situational awareness at Distribution voltage levels. Improvements have been made in the deployment of advanced analytics that utilize the large amount of data being collected by the utility's sensors and systems. Mobile applications have entered the control room space as a much more streamlined and integrated way to move data between the control room and the field crews.

Symposium Speaker

Career and Leadership Development



Gary Hamatani

**Director - Chief Project Engineer
The Boeing Company**

Building and Sharing a Personal Leadership Philosophy

Gary Hamatani is the Chief Project Engineer for 737 MAX Development at Commercial Airplanes for The Boeing Company. Named to this role in December of 2017, Hamatani is responsible for the program management and leadership of the design, production and certification for the final three development models of the 737 MAX family. Gary is a graduate of the University of Washington in Seattle, Washington with a Bachelor and Master's degree in Mechanical Engineering. He has also completed the Senior Executive Program at the London Business School and is a Registered Professional Engineer in the State of Washington.

Abstract:

In this talk, Gary will share tips and lessons learned during his personal leadership journey on how a Leadership Philosophy can be developed and shared with your workgroup, team and leaders.

Gary believes that a Leadership Philosophy captures the essence of who we are, how we lead and more importantly how we interact with others.



Debbie Dennis

**Chief Customer Officer and
SVP Human Resources
& Corporate Affairs
Oncor Electric
Delivery Company**

Leadership is a Journey, Not a Destination

Debbie Dennis is Oncor's Chief Customer Officer and SVP Human Resources & Corporate Affairs. In her current role she has responsibility for customer service, community relations, economic development, branding and communications, as well as all human resource planning, policy, performance management, rewards strategies, sourcing, talent management and employee and labor relations. She is also responsible for the strategic direction of Oncor's philanthropy, community involvement and employee engagement initiatives and their alignment with the Company's business goals. Dennis is the Loaned Executive Director of the Dallas Mayor's Youth Fitness Initiative and serves on the Board of the Dallas Regional Chamber and a number of non-profit boards, including the American Foundation for the Blind, WiNGS of Dallas, Baylor Scott and White Health and Wellness Institute, DRC Executive Women's Roundtable, a member of the AHA Dallas Heart Walk 2019 Executive Leadership Team.

Abstract:

Whether you're an aspiring leader or far down your career path, it's important to continually work on developing your skills. This presentation will cover several topics, including relationship-building, communication, identifying your personal brand, building your business acumen, and more. Debbie will share several practical, actionable and motivational ideas that she has uncovered during her personal leadership journey. Her presentation will provide key takeaways to help you grow as a leader, serve as positive role model for your team, and have a lasting and long-term impact on your company.

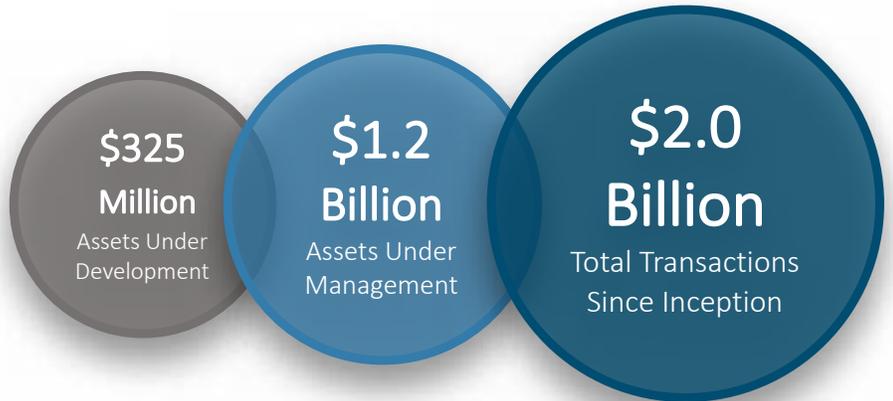


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Please contact Daisy Chen for additional details on Encore's investment opportunities.



Bharat Sangani, MD,
Founder & Chairman

On behalf of Encore, I would like to congratulate all of the Science and Engineering professionals honored at this year's Asian American Engineer of the Year Awards Banquet. We would also like to extend our support to the young engineers who are slated to make a significant contribution to our future.





CONGRATULATIONS

Dr. Rao Dasari

ASIAN AMERICAN
ENGINEER *of the* YEAR



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About CIE

Mission

Chinese Institute of Engineers (CIE/USA) is dedicated to promoting engineering and scientific excellence, professional advancement and leadership development of Asian-Americans.

History

The Chinese Institute of Engineers was founded in 1917 in New York by a group of Chinese engineers who graduated from American universities and served in various industries in the United States. The main organization moved back to China during World War II, then moved to Taiwan. The American counterpart became a separate chapter. In 1977, the institute was renamed the "Chinese Institute of Engineers, USA (CIE/USA)," with a mission to serve members from all over the United States. Since then, seven area chapters, namely the Greater New York, San Francisco-Bay Area, Seattle, Dallas-Fort Worth, OCEESA, New Mexico, and South CAL chapters have been established.

CIE/USA works with other professional organizations to sponsor events, such as venture capital and management seminars, technical conferences, and high-tech exhibitions, and to promote joint interests and partnership in technology among the US, China and Taiwan. CIE/USA also co-sponsors the Sino-American Technology Engineering Conference (SATEC) in Beijing and the Modern Engineering and Technology Seminars (METS) in Taipei every other year.

CIE/USA-DFW Area Chapter

The Dallas-Fort Worth Chapter was established in January, 1989 and registered in the state of Texas as a non-profit organization in 1992. Over the years, the CIE/USA-DFW chapter has established close ties with major corporations and government bodies around the world. Leaders from these sponsoring organizations highlight every year's convention by sharing their experience and insight in business and technology at our evening banquet.

2019 CIE/USA National Council

Natioal Council Officers

Chairman	Simon Ma	馬思平
Vice Chairman	Bing Liang Neris	梁冰
Secretary	XiaoXi Wang	王曉熙
Treasurer	Changjian Feng	

Natioal Council Advisors

Qing Zhao	趙慶	Xiaoxi Wang	王曉熙
Faa-Ching Wang	王法清	David Fong	方玉山
Rong Chang	張榮	Bing Liang Neris	梁冰
Yung Sung Cheng	鄭永松		
Wei-Ping Pan			

Chapter Representatives

Dallas/ Fort Worth

Allan Zhong	鐘曉光
Claire Jung	榮慶珊
Xinfen Chen	陳信芬
Grace Tyler	蔣金玉
Simon Chang	張永山
Qing Zhao	趙慶

New Mexico

Yifeng Wang	王益峰
Qianyun Zhang	張茜云
Yung Sung Cheng	鄭永松

OCEESA

Yung Sung Cheng	
Kaimin Shih	施凱閔
Ningwu Zhang	張寧武

Greater New York

Jinjun Xiong	
Keith Wong	黃洸漢
C. Eric Wu	吳振藩
Kun-Lung Wu	吳坤龍
Monsong Chen	陳孟松
Yuying Gosser	仇玉英

South CAL

Bing Liang Neris	梁冰
Mabel Hsi	
Chuching Wang	
Gorden Wei	
Tony Torng	佟儀
Wei Li	李偉

San Francisco Bay Area

Yazhou Liu	劉亞洲
Raymond Chen	陳宇哲
Simon Ma	馬思平
Andrew Fang	方自遠
David Fong	方玉山
Bill Kao	高耀京

Seattle

Xiaoxi Wang	王曉熙
Jenny Chang	
Yong Zhou	周雍
Gina Li	李建平
Minggan Ma	馬明罡
Angelina Huang,	



2019 AAEOY Executive Committee

Committee Chair:	Dr. Claire Jung
Committee Co-Chair	Dr. Lun Tsuei
Advisory Council:	Grace Tyler Dr. Faa-Ching Wang Dr. Qing Zhao
Nominations Chair:	Dr. Wei-Jen Lee
Sponsorship Chair:	Dr. Xinfen Chen
CIE/DFW Convention:	Greg Nichols / Marrisa Yang
Public Relations:	Winnie Liang
Award Banquet:	Daisy Chen
Job Fair/Sponsor Exhibition:	Kevin Liang
Technical Executive Forum:	Dr. Qing Zhao / Bing Xie
International Technology & Leadership Conference:	Simon Chang
VIP Reception:	Dr. Jung Chih Chiao
Road Show:	Will Zhou
Hotel Logistics:	Dr. Yuqing Xu
Hospitality:	Alan Lee
Technical/Cultural Tour:	Huawen Jin
Pre-Award Banquet:	Ivy Sun
Convention Treasurer:	Jessie Yuan
Registrations:	Shangting Detweiler
Decorations:	Dr. Huang-Chun Wen / Xin Yang
Proceeding:	Winnie Liang / Xin Yang
Webmaster:	Ce (Jimmy) Liu

2019 AAEOY Nomination Committee

Chair	Dr. Wei-Jen Lee Dr. Yung-Sung Cheng Leslie Collins Dr. William Kao Daniel Ma Dr. Tony Torng Dr. Jason Wen Dr. Keith Wong Jason Yeh Dr. Yong Zhou
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Future Engineers Program

National Future City Competition New Mexico Chapter

The 2018-19 National Future City Competition was held between February 16 to February 19 at the Hyatt Regency Capitol Hill. This annual event was a culmination of six month effort across 44 regions that held individual regional finals (from August 2018 through January 2019.) This final event attracted over 1000 attendees during the long weekend, including team members, judges, parents, mentors, and teachers.

Dr. Amy Sun traveled to DC representing the New Mexico region as well as serving as CIE/USA representative. Bing Neris from the CIE Southern California also attended this event as a coordinating committee member. Bing is an active member of the CIE-National Council. Together, Amy and Bing volunteered the entire weekend to support Special Award judging and preliminary round judging. Dr. Chein Chi Chang and Mrs. Bianca Chang from CIE New York helped judging the Best Residential Award in the afternoon of February 17. Chein Chi returned and joined Amy and Bing to present the Best Residential Award on February 19. This year, Nevada Region won CIE's Best Residential Award with their Future City "Liang Firix". This futuristic city was modeled after Hong Kong.

The New Mexico region also won distinctions at the 2019 National Competition. The team that created Future City "Citta Forte" was awarded Professional Engineering Award by the National Society of Professional Engineers (NSPE.) It also placed 15th out of all the contestants. In addition, the New Mexico Regional Coordination



CIE Best Residential Award Winner Nevada Team



Final five finalists: Mid-Atlantic, Pennsylvania Central (Winner), Idaho, Alabama, and New Jersey (not shown)



Future Engineers Program

Student Engineering and Creativity Competition (SECC) Dallas - Fort Worth Chapter

CIE/USA-DFW successfully held its new STEM flagship program Student Engineering and Creativity Competition (SECC) on Saturday March 23rd, 2019 at the University of Texas at Dallas (UTD).

2019 SECC was co-hosted by Texas Instruments and UTD. SECC is a new platform for STEM events designed by CIE/USA-DFW Chapter to support national-wide DiscoverE's Engineers Week program to celebrate and raise awareness for: how engineers make a difference in our world, increasing public dialogue on the need for engineers, and bring engineering to life for kids, educators, and parents.

2019 SECC featured an Engineering Challenge (EC) Creativity Challenge (CC), and Science, Technology, Engineering, and Mathematics (STEM) Seminar for students of all grades. The goal is to inspire students to discover and develop their interest in STEM through hands-on projects, developed by our sponsor companies, and creativity challenges to solve engineering problems. Students' interaction with the real world applications is the key element of this platform.

Over 150 people participated in this event, including 12 teams 21 student contestants, their family members, 20 volunteers, 15 judges, STEM speakers, award presenters, and seminar participants.



Engineering Challenge Contestants/Poster



Engineering Challenge Live Demo



Creativity Challenge Contestant/Poster



Engineering Challenge Live Demo



2019 SECC Volunteers



2019 SECC Winners and Award Presenters



Vertical banner with the word 'engineer' written in multiple languages and scripts, including English, Hindi, Chinese, and others. The word 'engineer' is written in various orientations and colors.



Di's Vocal Art
DIVA

陆涤声乐艺术学苑



A lyric soprano and a vocal teacher. She is the founder of "Di's Vocal Art". She earned her bachelors, artists certificate and masters degrees In in vocal major from the Shenyang Conservatory of Music in China, Shanghai Conservatory of Music in China, and the University of Louisville Kentucky respectively. She has performed as the leading role in many concerts and operas as well as participated and won many prizes in some large-scale vocal competitions in both of China and the USA, She also has been Invited as one of the judges by local major Vocal competitions for many years.

Ms. Lu resides in Allen, TX . She loves to contribute her vocal talent and time to local communities and organizations. She has been sharing her great singing experience with many students in her "Di's vocal art " .

Ms. Lu and her students performing were invited by many major events throughout DFW metropolitan over 20 years. Some of her students have earned top awards from different vocal competitions, auditions, and also performed as leading roll in choirs and musicals.



(972) 758-1807
Di.Dilu525@gmail.com



JIAPING SHI DANCE SCHOOL

石家萍舞蹈学校 www.jpsdance.com

Established in April 2000 by Director Ms. Jiaping Shi, JPS Dance School is one of the largest, most prestigious and most influential Chinese dance schools in the DFW area. The mission of JPS school was to be a home for Chinese folk dance enthusiasts, develop dance talents and enrich the cultural life of our community. JPS dance school has been an ambassador for Chinese art of dance and promoter of cultural exchanges between the East and the West since its founding.

JPS dance school has a staff of highly trained, experienced and professional teachers who are eager to impart their knowledge and experience to our students. A talented and hard-working group of young dancers make up the JPS Dance Company.



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AAEOY

Asian American Engineer of the Year



Award and Conference



AAEOY YEAR 2020

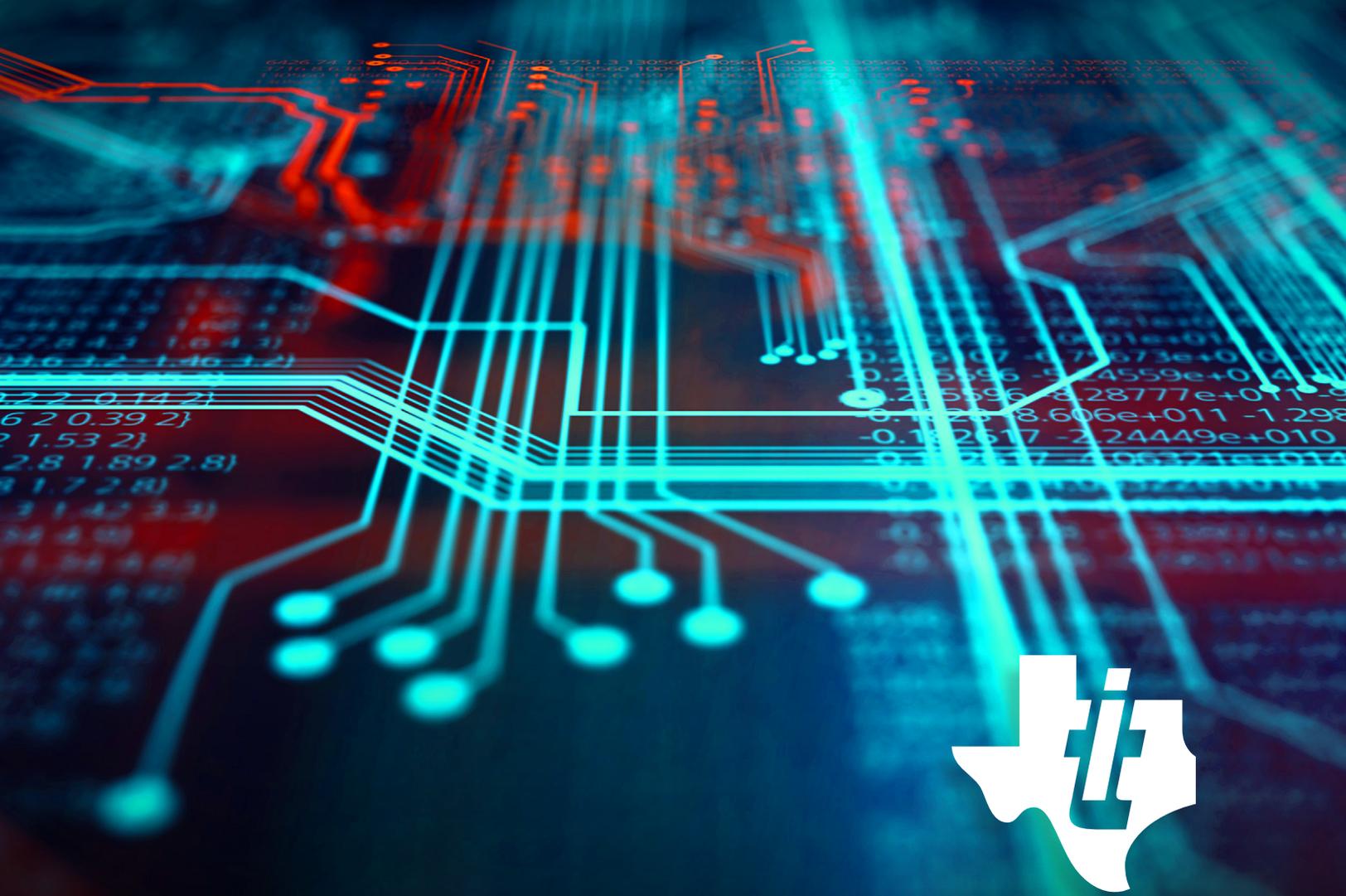
San Francisco Bay Area



May 1st and 2nd
2020

Silicon Valley
Hyatt Regency &
Santa Clara Convention Center





Change the world **with us**

As a proud supporter and sponsor of the Asian American Engineer of the Year Award and Conference since 2002, Texas Instruments congratulates the Dallas/Fort Worth Chapter of CIE/USA for its contributions to advancing technological progress, and developing future engineering talent and leaders.

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