

Asian American Engineer of the Year 2022

Los Angeles

20th Anniversary



Asian Americans Striving for Excellence
Sustainability Through Innovation and Technology

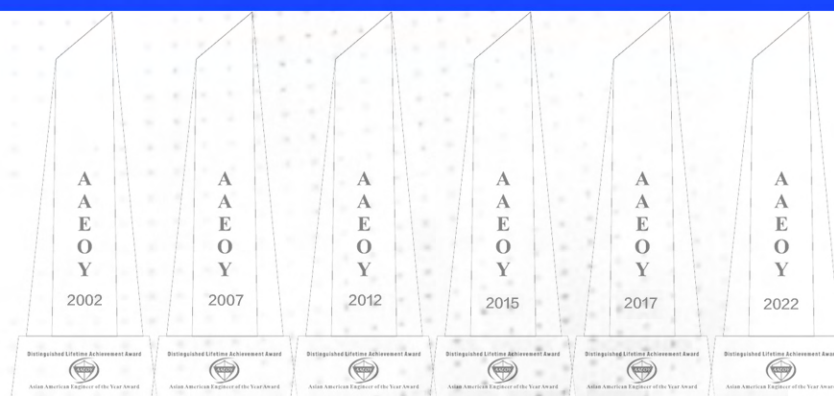
2022

AAEOY

AAEOY 2022

AAEOY 2022

www.aaeoy.org





2022

ASIAN AMERICAN ENGINEER OF THE YEAR AWARD CEREMONY AND CONFERENCE

Los Angeles, California





Events & Schedule			
Time	August 5, Friday	August 6, Saturday	
9:00 AM	SpaceX Tour (9am - 11:30pm)	Executive/Leadership Forum (Suite C & D) Session 1 (9am-9:50am) Session 2 (10am-10:50am) Session 3 (11am-11:50am)	Job Fair (Suite A & B)
9:30 AM			
10:00 AM			
10:30 AM			
11:00 AM			
11:30 AM	Bus Heading to So-Fi Stadium		
12:00 PM	So-Fi Stadium Tour	Luncheon with Keynote Speech (Pacific Coast 2 & 3) (12pm - 1pm)	
12:30 PM		Technical Symposium (Pacific Coast 4, 5 & 6) Breakout Sessions (1pm-2:30pm)	
1:00 PM		Coffee Break (Pacific Coast 2 & 3)	
1:30 PM			
2:00 PM			
2:30 PM	Bus Back to Hotel		
3:00 PM	Free	Technical Symposium (Pacific Coast 4, 5 & 6) Breakout Sessions (3pm-4:30pm)	
3:30 PM			
4:00 PM	Bus Heading to City Club	VIP Reception (Suite C & D)	
4:30 PM			
5:00 PM	Pre-Award Dinner (5pm-9pm) Los Angeles City Club	Award Ceremony & Banquet (Marquis Ballroom/Salon 1~6)	
5:30 PM			
6:00 PM			
6:30 PM			
7:00 PM			
7:30 PM			
8:00 PM			
8:30 PM			
9:00 PM			
9:30 PM	Back to Hotel		

2022 AAEOY Award Ceremony

4:30pm

VIP Reception

AAEOY Co-Chairs

5:30pm

Banquet Seating

6:00pm

Emcee's Welcome

National Anthem

Pledge of Allegiance

Ann Hwu & Ryan Limb

Diamond Bar High School Pep Band

6:15pm

AAEOY Chair's Remarks

Congratulatory Letters

Dinner

AAEOY Co-Chairs

7:00pm

Keynote Speech

The Aerospace Safety Journey

Boeing Chief Aerospace Safety Officer

Michael P. Delaney

7:15pm

Award Presentation I

Distinguished Award I

Keynote Speech by Dr. Tu

NASA Ames Research Center Director

Dr. Eugene L. Tu

8:15pm

Dance Performance

Miracle

Choreographed by Anne Ma

STC Foundation

8:25pm

Award Presentation II

Distinguished Award II

AMD CEO Dr. Lisa Su

9:10pm

2021 AAEOY Awardee Recognition

9:20pm

2022 Awardee Group Photo

Closing Remarks

2023 AAEOY Announcement

AAEOY Co-Chairs

9:40pm

See you all at 2023 AAEOY

2022

CIE/USA National Council Chair's Remarks

Dr. Monsong Chen

On behalf of the Chinese Institute of Engineers USA (CIE/USA), it is my great honor to welcome awardees, sponsors, speakers, CIE/USA representatives, and all distinguished guests to the 2022 Asian American Engineer of the Year (AAEOY) award ceremony.

Founded in 1917, CIE/USA with its seven chapters strives to promote Science, Technology, Engineering and Mathematics (STEM). We are engineers and scientists with unwavering enthusiasm for making discoveries, inventing new technologies, building things, and fixing problems. We support each other and like-minded communities by sharing expertise and experiences, and by recognizing and awarding accomplishments through programs such as AAEOY.

We would like to congratulate 2022 AAEOY awardees and honorees, express our gratitude to all our sponsors, and thank the 2022 AAEOY team of committee members and volunteers. Let us celebrate and enjoy this wonderful event.



ABOUT CIE

Chinese Institute of Engineers (CIE) 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 mainland 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 (Overseas Chinese Environmental Engineers & Scientists Association), New Mexico, and Southern California chapters have been established.

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

As one of the CIE/USA's flagship programs, the AAEOY is an annual recognition event on the national platform to honor the most distinguished professionals with their leadership, technical achievements and remarkable public services. Since first introduced as a part of the National Engineers Week Program in 2002, AAEOY has become a prestigious and important forum for Corporate America, Academia, and Government entities in promoting STEM activities. The 2022 AAEOY is jointly hosted by CIE/USA Southern California Chapter and OCEESA Chapter.

CIE/USA also co-hosts the Sino-American Technology Engineering Conference (SATEC) in Beijing and the Modern Engineering and Technology Seminars (METS) in Taipei every other year.

2022

AAEOY Chair's Remarks

Co-Chairs

Dr. Chuching Wang

Mr. Jinghui Niu

On behalf of 2022 Asian American Engineer of the Year (AAEOY), it is our great pleasure and honor to welcome all distinguished guests, honorees, sponsors, community leaders and everyone to the 2022 AAEOY Award ceremony.

The prestigious AAEOY Award Ceremony and Conference is an annual event on the national platform to honor the most distinguished Asian American professionals for their leadership, technical achievements, and remarkable public services.

AAEOY was first introduced in 2002 by CIE/USA as part of the US National Engineers Week program. Through the years, AAEOY has become the flagship program of CIE/USA. The 7 CIE/USA local chapters take turns to host this annual event at different cities across the nation. This year's program is co-hosted by the Southern California Chapter (CIE-SOCAL) and Overseas Chinese Environmental Engineers & Scientists Association (CIE-OCEESA) Chapter in the greater Los Angeles area.

The 2022 AAEOY marks the 20th Anniversary of the program. In the past twenty years, this prestigious distinction has been awarded to over 300 Asian Americans in various fields of science, technology, engineering, mathematics, and management, including 9 Nobel Laureates, many academic/university

presidents, major corporate executives, and a couple of cabinet members. Among those awardees, there are promising young engineers, as well as Distinguished Achievement Awardees with global stature and influence who serve as role models and sources of inspiration for many.

The 2022 AAEOY program includes a tour of the SpaceX, and the state of art So-Fi Stadium, a pre-award dinner at the Los Angeles City Club, an Executive and Leadership forum, a three-track technical symposium with the support of many professional associations, a Job Fair with Corporate HR and talent acquisition experts, a reception for VIP guests and the Award Ceremony and Banquet.

This year, in addition to the 14 honorees nominated by our corporate sponsors, we present the Distinguished Leadership in Science & Technology Award to Dr. Lisa Su, CEO of AMD, and to Dr. Eugene Tu, the Director of NASA Ames Research Center.

On behalf of the AAEOY Committee, we would like to express our sincere gratitude to our current and past sponsors, alliance partners, supporters, and volunteers. The program would not be possible without their generous support. We would also like to thank all the members of the 2022 AAEOY Committee for their dedicated hard work in making the AAEOY program a success. Finally, we would like to congratulate the recipients of this year's AAEOY Award. Thank you not only for your outstanding accomplishment in Science, Technology, Engineering and Mathematics, but also for your incredible dedication and diligence to giving back to the community as Asian American leaders.



2022 Asian American Engineers of the Year Proclamation

March 9, 2022

On behalf of DiscoverE, the premiere engineering outreach organization, I congratulate the 2022 Asian American of the Year Awards recipients. I also send warm wishes for those attending this inspiring event.

The Chinese Institute of Engineers-USA has been a valuable DiscoverE partner and coalition member for more than 22 years. This partnership helped spark the AAEOY program, and it has been exciting to watch its 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,



Kathy Renzetti, CAE
Executive Director
DiscoverE



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AND TECHNOLOGY
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SUBCOMMITTEE ON AFRICA, GLOBAL HEALTH
AND GLOBAL HUMAN RIGHTS



United States House of Representatives

Young Kim

39th District, California

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WASHINGTON, DC 20515
(202) 225-4111

PLACENTIA DISTRICT OFFICE:

701 W. KIMBERLY AVE.
SUITE 245
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(714) 984-2440

WWW.YOUNGKIM.HOUSE.GOV
@REPLYOUNGKIM

August 6, 2022

Dear Friends:

It is my pleasure to welcome everyone to the 2022 Asian American Engineer of the Year Award Gala. I would like to express my gratitude to the AAEOY Committee and the Chinese Institute of Engineers/USA for organizing this event. I would also like to congratulate this year's recipients on their exceptional accomplishments.

Since 2002, AAEOY has been dedicated to highlighting the best in our STEM and Asian American communities.

AAEOY has honored professionals at the forefront of innovation and leaders who have made key contributions to STEM and our society. The importance of STEM in today's world cannot be understated, and as a member of the House Science, Space and Technology Committee, I know how critical your work is as we aim for and achieve greater heights.

It is a privilege to recognize the outstanding individuals who are being honored tonight. I thank you and AAEOY for your tireless work pushing the boundaries of what we can do, and I will continue to champion STEM at the federal level. Congratulations once again, and best wishes for continued success!

Sincerely,

Young Kim
Member of Congress, 39th District



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

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House of Representatives
Washington, DC 20515

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PASADENA DISTRICT OFFICE:

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Pasadena, CA 91101
(626) 304-0110
(626) 304-0132 (Fax)

August 6, 2022

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

Dear Friends,

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



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

I commend the CIE/USA for its dedication in creating outstanding programs for high school and college students. Its efforts have enhanced the quality of life of all people throughout the United States by supporting the nation's future engineering community. I would also like to recognize the 16 awardees tonight including Dr. Eugene Tu, Director of NASA Ames Research Center, and Dr. Lisa Su, CEO of AMD. The success these awardees have achieved during their noble pursuits serves as an inspiration to us all.

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

Sincerely,

JUDY CHU, Ph.D.

Member of Congress, 27th District

TED W. LIEU
33RD DISTRICT, CALIFORNIA

COMMITTEE ON THE
JUDICIARY

COMMITTEE ON
FOREIGN AFFAIRS

403 CANNON HOUSE OFFICE BUILDING
WASHINGTON, DC 20515
(202) 225-3976

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LOS ANGELES, CA 90025
(310) 652-3095

1600 ROSECRANS AVENUE, 4TH FLOOR
MANHATTAN BEACH, CA 90266
(310) 321-7664

Congress of the United States
House of Representatives
Washington, DC 20515-0533

August 6, 2022



Dear Friends,

Please accept my warmest wishes as you gather at the Asian American Engineer of the Year Award Ceremony and Banquet.

Since 2002, AAEOY has hosted an annual recognition event to honor outstanding Asian American engineers and scientists from across the country in their leadership, technical achievements, and remarkable public service. These awardees have inspired and uplifted the STEM community.

I am delighted to join you in honoring 16 awardees, including Dr. Engene Tu, Director of NASA Ames Research Center, and Dr. Lisa Su, CEO of AMD.

Our community owes the Asian American Engineer of the Year 2022 Executive Committee and the Chinese Institute of Engineers an enormous debt of gratitude for their tireless hard work and dedication.

Congratulations and best wishes for a wonderful event.

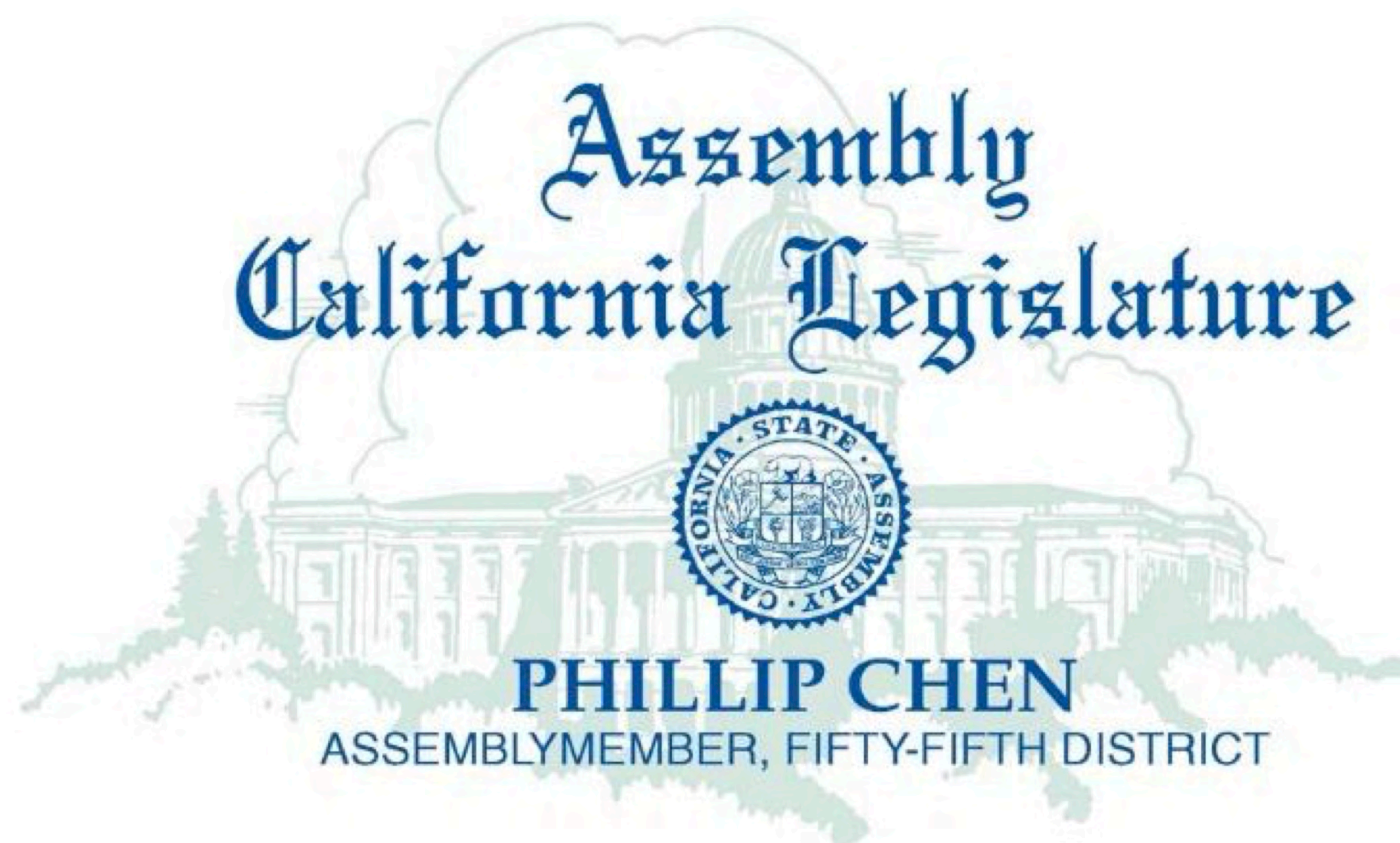
Sincerely,

A handwritten signature in black ink that reads "Ted W. Lieu".

Ted W. Lieu
Member of Congress

STATE CAPITOL
P.O. BOX 942849
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FAX (916) 319-2155

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August 6, 2022

Dear Friends:

It is my pleasure to welcome everyone and offer my sincere congratulations as you gather for the 2022 AAEOY Award Ceremony and Banquet for the Asian American Engineer of the Year Committee and Chinese Institute of Engineers/USA (CIE/USA). Thank you to everyone who has worked so hard to make this event possible and thank you to the entire leadership of the Chinese Institute of Engineers/USA for your dedication to this organization.

Thank you for hosting this annual event on a national platform to recognize and honor outstanding Asian American professionals in Science and Engineering, for their technical achievements, leadership and public services. Your work to educate the community by holding a conference, technical/cultural tours, talent acquisition/exhibition opportunities, and networking opportunities is invaluable.

Congratulations again and thank you for giving me this opportunity to serve you. It is always an honor you represent you in Sacramento. Best wishes for the continued success of this vital organization.

Sincerely,

A handwritten signature in blue ink that reads "Phillip Chen". The signature is fluid and cursive, with the first name "Phillip" and last name "Chen" clearly distinguishable.

Phillip Chen, Ed.D
Assemblyman, 55th District



STATE CAPITOL
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Assembly
California Legislature



MIKE FONG
ASSEMBLYMEMBER, FORTY-NINTH DISTRICT

DISTRICT OFFICE
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MONTEREY PARK, CA 91754
(323) 264-4949
FAX (323) 264-4916

August 6, 2022

Dear Friends,

Congratulations to Asian American Engineer of the Year (AAEOY) for hosting the 2022 AAEOY Award Ceremony and Banquet at Los Angeles Airport Marriott Hotel.



I applaud AAEOY for honoring outstanding Asian American STEM professionals for their leadership, achievements and public services. As one of the leading engineering organization, AAEOY strives to enrich its members with resources to academia, networking opportunities and community events to enhance collaboration and success. Thank you inspiring the next generation of Science, Technology, Engineering and Mathematics (STEM) leaders.

On behalf of the California State Assembly's 49th District, I am honored to celebrate the 2022 AAEOY Award Ceremony and Banquet. I offer my congratulations and best wishes for the continued success of your organization.

Sincerely,

A handwritten signature in blue ink, appearing to read "MFong".

Mike Fong
Assembly Member, 49th District

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Assembly California Legislature



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CHAIR, AEROSPACE

August 6, 2022



Dear Friends:

Please accept my warmest wishes and congratulations as Chinese Institute of Engineers/USA (CIE/USA) and Asian American Engineer of the Year (AAEOY) host their 2022 AAEOY Award Ceremony and Banquet.

Founded in 1917, Chinese Institute of Engineers/USA is a non-profit professional organization of Chinese-American engineers and scientists that promotes Science, Engineering, Technology and Mathematics among both academia and business across the United States.

I commend Chinese Institute of Engineers/USA (CIE/USA) and Asian American Engineer of the Year (AAEOY) for their commitment to recognize outstanding Asian American professionals in Science and Engineering for their technical achievements, leadership, and public services.

Best wishes for a successful and memorable event.

Sincerely,

A handwritten signature in black ink that reads "Al Muratsuchi". The signature is written in a cursive, flowing style.

AL MURATSUCHI
Assemblymember, 66th District



Los Angeles County Supervisor

HILDA L. SOLIS

First District



August 6, 2022

Dear Friends,

It is my honor to thank the Asian American Engineer of the Year Award Committee for their work in promoting STEM (Science, Technology, Engineering & Mathematics) activities and creating a prestigious forum for government entities, academia, and the business community across the First Supervisorial District of Los Angeles County and the world.

I would also like to congratulate the Distinguished Leadership in Science and Technology Awardees: Dr. Lisa Su and Dr. Eugene L. Tu; Executive of the Year Awardees: Mr. Vishwajeet Uddanwadiker, Ms. Juhi Jotwani McClelland, Dr. Karthik Vasanth, and Mr. Allen Ku; Engineer of the Year Awardees: Dr. John J. Dr. Nataraj (Raj) Nagaratnam; Dr. Hui-Ping Wang, Dr. Weihua Ye, Dr. Piyush Sabharwall, Mr. Charley X. Qian, and Mr. Tan M. Ly; and the Most Promising Engineer of the Year Awardees: Dr. Shuonan Dong, Dr. Bishnu Khanal, and Mr. Justin A. Goo.

Congratulations to the AAEOY Committee and these fine honorees for their service and excellence.

Sincerely,

A handwritten signature in blue ink that reads "Hilda L. Solis".

HILDA L. SOLIS

Supervisor, First District

Thanks to the 2022 AAEOY Sponsors, Partners and Volunteers

Sponsors

Boeing	Adesso, Inc.
IBM	Sun Foundation
Sandia National Laboratories	SpaceX
AT&T	Law Office of Hung Ban Tran
Texas Instrument	Stanford Leadership International
Idaho National Laboratory	
General Motors	

Supporting Partners

Southern California Chinese American Environmental Protection Association
Chinese-American Engineers and Scientists Association of Southern California
Ground Water Resources Association of California
International Chinese Transportation Professionals Association
Chinese-American Oceanic and Atmospheric Association Southern California Chapter
Asian American Academy of Science and Engineering
Capital Group

Volunteers

Host Chinese Institute of Engineers (CIE/USA)

- ✧ Southern California Chapter (CIE/USA-SoCal)
- ✧ Overseas Chinese Environmental Engineers & Scientists Association (CIE/USA-OCEESA)

National Council Chair Dr. Monsong Chen

Executive Committee Chairs Dr. Chuching Wang Mr. Jinghui Niu

Secretary Dr. Wen Cheng

Treasurer Dr. Xinfen Chen Mr. Tiezheng Zhao

Advisory Council

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Dr. Tony Tornig Dr. Ning-Wu Chang Mr. Peter Zhang

Mrs. Liling Tornig Dr. Weixing Tong Mr. Daniel Miao

Dr. Jason Wen Ms. Mabel Hsi

Nomination Committee

Dr. Tony Tornig Dr. Rong Chang Mrs. Bing Liang Neris

Dr. Monsong Chen Dr. Yung Sung Cheng Dr. Wei-Ping Pan

Mr. Mark Carpenter Dr. David Fong Dr. Xiaoxi Wang

2022 AAEOY AWARDEES

Distinguished Leadership in Science and Technology Award

Dr. Lisa Su	AMD
Dr. Eugene L. Tu	NASA

Executive of the Year Award

Mr. Vishwajeet Uddanwadiker	The Boeing Company
Dr. Karthik Vasanth	Texas Instruments
Ms. Juhi Jotwani McClelland	IBM
Mr. Allen Ku	Adesso Inc.

Engineer of the Year Award

Dr. Nataraj (Raj) Nagaratnam	IBM
Dr. John J. Dong	The Boeing Company
Dr. Piyush Sabharwall	Idaho National Laboratory
Dr. Hui-Ping Wang	General Motors
Dr. Weihua Ye	AT&T
Mr. Charley X. Qian	U.S. Army Corps of Engineers
Mr. Tan M. Ly	U.S. Army

Most Promising Engineer of the Year Award

Dr. Bishnu Khanal	Sandia National Laboratories
Dr. Shuonan Dong	The Boeing Company
Mr. Justin A. Goo	U.S. Army Corps of Engineers



NON



Lisa Su, Ph.D.

Distinguished Leadership in Science and Technology



Dr. Lisa Su is a high-performance technology executive who drives industry-leading innovation and execution to deliver the world's most advanced processors and an inspiration to the next generation of innovators and changemakers.

Dr. Lisa T. Su is chair and chief executive officer of AMD. Prior to serving as president and CEO, she was chief operating officer responsible for integrating AMD's business units, sales, global operations and infrastructure enablement teams into a single market-facing organization responsible for all aspects of product strategy and execution. Dr. Su joined AMD in January 2012 as senior vice president and general manager, global business units and was responsible for driving end-to-end business execution of AMD products and solutions.

Prior to joining AMD, Dr. Su served as senior vice president and general manager, Networking and Multimedia at Freescale Semiconductor, Inc. (a semiconductor manufacturing company) and was responsible for global strategy, marketing and engineering for the company's embedded communications and applications processor business. Dr. Su joined Freescale in 2007 as chief technology officer, where she led the company's technology roadmap and research and development efforts.

Dr. Su spent the previous 13 years at IBM in various engineering and business leadership positions, including vice president of the Semiconductor Research and Development Center responsible for the strategic direction of IBM's silicon technologies, joint development alliances and semiconductor R&D operations. Prior to IBM, she was a member of the technical staff at Texas Instruments Inc. in the Semiconductor Process and Device Center from 1994 to 1995.

Dr. Su has bachelor's, master's and doctorate degrees in electrical engineering from the Massachusetts Institute of Technology (MIT). She has published more than 40 technical articles and was named a Fellow of the Institute of Electronics and Electrical Engineers in 2009. In 2018, Dr. Su was elected to the National Academy of Engineering and received the Global Semiconductor Association's Dr. Morris Chang Exemplary Leadership Award. In 2020, Fortune named Dr. Su #2 on its "Business Person of the Year" list, she was elected to the American Academy of Arts & Science, and received the Grace Hopper Technical Leadership Abie Award. In 2021, she was recognized by the IEEE with its highest semiconductor honor, the Robert N. Noyce Medal and was appointed by President Biden to the President's Council of Advisors on Science and Technology. She has been a member of the board of directors of Cisco Systems, Inc., since January 2020 and also serves on the board of directors for the Semiconductor Industry Association.



Eugene L. Tu, Ph.D.

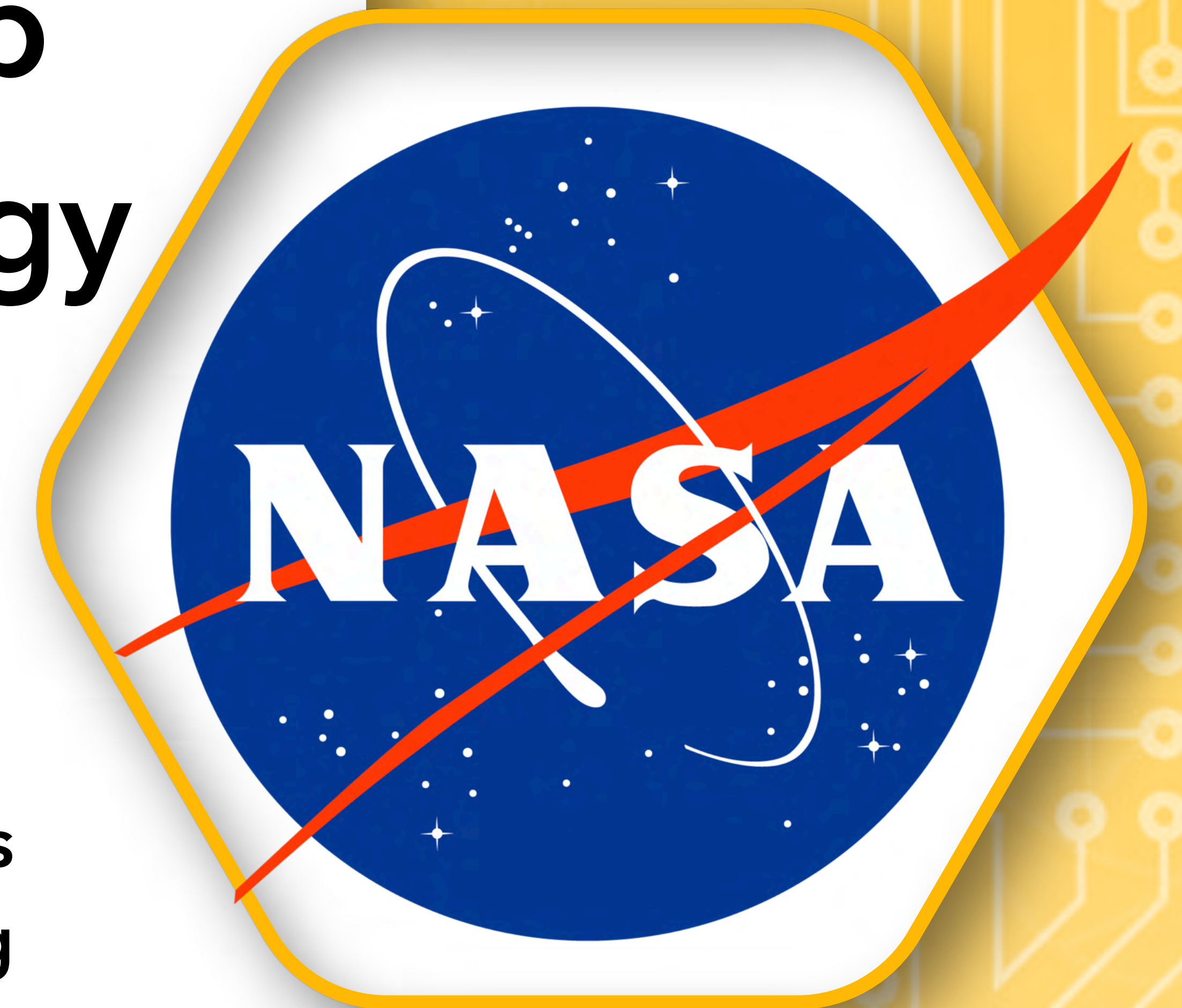
Distinguished Leadership in Science and Technology

Dr. Eugene L. Tu is the center director at NASA's Ames Research Center in California's Silicon Valley, where he leads a staff of civil servants and contractors in providing critical research and development support that makes the aeronautics and space missions of NASA and the nation possible.

Dr. Tu was most recently director of Exploration Technology at Ames, a position he held from November 2005 until his selection as Ames center director in May 2015. There he led four technology research and development divisions, including two of NASA's critical infrastructure assets: the consolidated arc jet testing complex and the agency's primary supercomputing facility.

Dr. Tu began his career as a research scientist conducting computational fluid dynamics research on the steady and unsteady aerodynamics of complex aircraft configurations. After progressing through various research and managerial positions in such fields as computational aerodynamics, information technology, or IT, and high performance computing and communications, he was selected as the deputy program manager for the agency's IT Base Research program in 1997. In 1998, he was selected as the program manager for the agency-level High Performance Computing and Communications, or HPCC, program and concurrently led both the IT Base Research and HPCC programs. In 2001, the two programs were combined into the Computing, Information, and Communication Technology, or CICT, program and Dr. Tu was selected as the CICT program manager. In 2002, he was selected into the Senior Executive Service Candidate Development Program, SESCDP, and served in the Office of Biological and Physical Research at NASA Headquarters in 2003, and as the acting director for the Information Sciences and Technology Directorate at Ames in 2004. After receiving his SES certification in 2005, he was selected as the director of Exploration Technology at Ames.

Dr. Tu earned his bachelor's degree in mechanical engineering from the University of California, Berkeley, in 1988, and both his master's degree and doctorate in aeronautics and astronautics from Stanford University in 1990 and 1996, respectively. He is an associate fellow of the American Institute of Aeronautics and Astronautics. Dr. Tu received the NASA Outstanding Leadership Medal in 2000, and the Presidential Rank Awards for Meritorious Executive and Distinguished Executive in 2009 and 2020, respectively. Dr. Tu lives in Fremont, California, with his wife Kathy and three children. His hobbies include attending sporting events, traveling, and motorsports.



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Vishwajeet Uddanwadiker Executive of the Year



Versatile executive who has benefited the company and industry by developing solutions for complex engineering problems and testing the solutions using advanced data analysis methods, while also applying his skills as a valued leader, teacher, and mentor.

Vishwajeet Uddanwadiker is Vice President for Aerospace Safety Analytics at The Boeing Company. In this important role, he reports to the Chief Aerospace Safety Officer and is responsible for strengthening the Safety Management System for Boeing products and services through the use of advanced data analytics.

Vishwa joined Boeing at its newly opened Bangalore office in March 2009 as Director of IT International for India. In December 2011, he was promoted to the role of Director of Information Technology for Boeing International and moved to Seattle. Since then, he has held a variety of roles at the company, including Vice President of Information Technology for Boeing Commercial Airplanes and Vice President of Engineering People Strategy. He served as interim Chief Information Officer and Senior Vice President, reporting to the Boeing CEO, during 2019 and 2020.

Before joining Boeing, Vishwa held positions of increasing responsibility in India with firms including Honeywell Technology Solutions. He holds a Bachelor of Engineering in Computer Science from Birla Institute of Technology and Science in Pilani, India, and an MBA from the Indian Institute of Management in Ahmedabad, India. Coming to the United States from India, he overcame the obstacle of speaking English as a second language by deliberately volunteering for public speaking opportunities.

In addition to his technical expertise, Vishwa dedicates significant time to developing the next generation by teaching leadership classes and mentoring employees at all levels. He was on the advisory board of the Master of Science in Information Systems program for the Foster School of Business at the University of Washington in Seattle. He is currently a Boeing executive sponsor for the Society of Asian Scientists and Engineers (SASE) and a supporter of the Boeing Asian American Professional Association (BAAPA) employee resource group.

Vishwa lives in Issaquah, Washington, with his wife and two young sons. In his free time, he enjoys cooking, gardening, and the sport of cricket.



Karthik Vasanth

Executive of the Year



Karthik Vasanth is an accomplished business leader who has grown multiple investments from inception to thriving growth engines across technological verticals and market segments thanks to his personal touch and technical depth in everything he does.

Karthik Vasanth is vice president and general manager for Texas Instruments' Data Converters and Clocks business unit in the company's Analog Signal Chain organization. Under his leadership, his team develops innovative products and solutions for industrial, automotive, communication infrastructure, aerospace and defense, medical imaging and healthcare markets across the globe. He oversees six product lines and a team of over 600 employees on three continents.

After beginning his career in 1995 as an engineer in silicon technology development, Karthik has contributed to many innovations in device modeling, high-performance radio frequency and medical integrated circuits. For example, he worked on compact process and device simulation models and developed and validated advanced SPICE models, including BSIM4. He has since created multiple businesses, authored more than 30 papers and developed several patented technologies.

Karthik earned a bachelor's degree in electronics and communication engineering from the Indian Institute of Technology Madras and master's and doctoral degrees in electrical engineering from Princeton University. He serves on the electrical engineering advisory boards at Princeton University and Southern Methodist University.

Karthik loves to play cricket and travel with his family on Disney Vacations.

NON





NON

Juhi Jotwani McClelland Executive of the Year



Juhi is passionate about applying technology to make the world a better place, developing teams, and growing global businesses through diverse perspectives.

Juhi is General Manager & Managing Partner Communications Sector, IBM Consulting. She's responsible for a multi-billion-dollar service P&L leading sales and delivery organizations focused on Consulting, Hybrid Cloud, Intelligent Workflows and AI services. She spends much of her time with clients building strategic partnerships to deliver compelling Hybrid Cloud and Analytics solutions.

In her previous role as General Manager of IBM's Technology Support Services, Juhi successfully led a multi-billion dollar P&L directing large teams across Sales, Delivery, Offerings and Business Operations.

Prior to this role, Juhi was IBM's VP for Department of Defense. She led a team of sales managers and architects to drive IBM solutions around datacenter transformation, cloud computing and business analytics. In addition, she has held several Development and Product Management leadership positions within IBM including Vice President of Retail and Global Director of BladeCenter including leading the industry consortium Blade.org.

Juhi has worked for IBM in Asia Pacific in the Telecom business and as a Business Transformation Consultant in IBM Global Services Strategy and CRM Practices.

She's a frequent speaker at Industry conferences across the globe on innovative technology topics like IoT, Blockchain, AI/ML application to grow businesses.

Juhi is a member of IBM's Performance Team, IBM's Acceleration Team, IBM's Women's Council and Asian Business Resource Group.

Prior to joining IBM, Juhi has worked with Wipro - Apple, India. She has a Bachelors (Honors) in Economics and MBA in Marketing. She is also a co-founder of See Insights that provides state and country parks visitation & usage insights by deploying IoT sensors. Juhi resides in Raleigh, NC with her husband and daughter.





Allen Ku

Executive of the Year

Innovative executive and visionary who drives the industry in global technology development and deployment of essential computer peripherals, security camera and smart home devices for the global landscape.

Allen Ku is the President and CEO of Adesso, Inc. For over 20 years, Allen has been an innovator and leader in the field of technology for Adesso, Inc. Allen has been in the technology industry all of his adult life - starting at WANG Computer, Qtronix, Aprotech and the start of Adesso in 2002. The culture of Adesso revolves around a simple, but meaningful premise: Supplier, Employee, customer...and expands to the Products, people, place, pricing and promoting the brand.

Adesso is a custom design/manufacturer of computer peripherals and mobile accessories. Adesso specializes in Webcams, Input Devices, Headphones, Conference Solutions, Speakers, Docking Stations, Bar Code Scanners and a wealth of additional products. The Adesso product line is comprised of more than 250 products with over 26 different categories. The Adesso culture is driven by customer service and creating cutting-edge products with high quality components, to provide the perfect solutions for business, the home office or wherever your technology takes you! Adesso can support the customer on a direct basis, through our Distribution Partners or OEM with our Private label - via FOB China.

Headquartered in Walnut, CA, U.S.A., Adesso, Inc. has become a leading design manufacturer and supplier of technology products and computer peripheral solutions to a variety of vertical markets, such as education, government, health care and many more for more than 20 years. Adesso's unmatched product catalogue includes a wide array of Plug & Play technologies such as CyberTrack Webcams, Keyboards & Mice, Headsets and More! Adesso's products are available through various distributors and resellers including TD Synnex, Ingram Micro, Essendant, D&H as well as CDW, Dell, HP, Insight, Staples, Office Depot, SHI, Amazon, Walmart - just to name a few. For a full list of reseller and distribution partners, and additional details of the Adesso product line, visit: www.adesso.com.



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Nataraj Nagaratnam, Ph.D. Engineer of the Year



Sustained leadership and innovations in the field of cyber security across cloud, mobile, and web that are helping businesses around the world effectively manage cyber security, risk, and compliance.

Dr. Nataraj Nagaratnam is a technology and business executive focused on designing and delivering innovative security solutions that help enterprises in their digital transformation journey. Recognized as an IBM Fellow, he has led innovative security products and capabilities across cloud, mobile, and middleware systems that are helping businesses around the world effectively manage their security. The title of IBM Fellow is the company's pre-eminent technical distinction, granted in recognition of outstanding and sustained technical achievements and leadership in engineering, programming, services, science, design and technology. There has been only 331 Fellows since 1963. As a security leader, he has 24+ years of industry experience in building security products, architecting solutions, product management and leading engineering organizations. Career contributions across his roles in IBM have already led to delivery of numerous security capabilities and products, successful client solutions using those capabilities, shaping industry security standards, and also led technical diligence and strategy for acquisitions.

Nataraj is a prolific inventor with more than 100 patents. He has authored and co-authored numerous journal articles, blogs, papers, books and security specifications. He received his Ph.D. in Computer Science from Syracuse University. He has influenced industry direction by participating in various industry standards bodies. He is a sought-after expert to speak at conferences, media interviews, and policy forums.

Nataraj has always been passionate about growing technical talent and giving back to community. During this appointment as CTO for India Software Lab, he led focused programs to build a talent pipeline, technical leadership and drive innovation projects with entrepreneurial mindset. His mentees are a diverse group from different geos, gender and business units. He also actively volunteers in local non-profit organizations.



John J. Dong, Ph.D.

Engineer of the Year

Dr. John J. Dong is a Senior Technical Fellow (STF) and Engineering Executive at Boeing, whose significant contributions to aerospace have impacted Space Systems (space shuttles, space stations, Delta launch vehicles, and satellites), aircraft (787, 737, 777, C-17, F-15), and advanced concept systems (Solar airplane, Orbital expresses, Orbital plane, Lunar lander, Autonomous air/space vehicles), etc.

Dr. John Dong chairs the Digital Enterprise Technical Board (DETB) and Engineering Analysis Simulation Integration (EASI) Technical Board to drive digital innovation and transformation. Throughout his 25 year long career at Boeing, John has led the development of many innovative solutions for the design, manufacturing, certification and operation of many Boeing products. These include space shuttles, space stations, rocket launch vehicles, the Lunar Lander Crew Cabin, satellites, 737/787/777X commercial airplanes, autonomous systems, and many other advanced concept air/space systems.

Prior to joining Boeing in 1997, John was an Assistant Professor of Mechanical Engineering and the Director of Digital Design & Manufacturing Center at the University of Connecticut. He also worked as a research fellow at the GE Factory Automation Center and as a structure testing engineer in an Automotive Research Center. John has pioneered numerous research innovations, which have had a lasting impact on the industry. These include 3D printing using diode lasers, design feature recognition, feature based process planning, assembly finite element method, variation tolerances and machine learning for material characterization to achieve high fidelity simulation.

John has a Ph.D. in Industrial Engineering and M.S./B.S. degrees in Mechanical Engineering. He has authored more than 140 technical papers and reports, including a book and several book chapters, and taught a number of graduate and undergraduate college courses. John is a Fellow of AIAA, and a Registered US Patent Agent. He is an active inventor with many patents covering areas such as adaptive winglet, solar airplanes, unmanned fix wing cargo airplane, unmanned multi- rotor air vehicles, space radiation shielding, multifunction composite structure for space vehicles, structural health monitoring, hybrid physics and machine learning modeling for material characterization and high fidelity simulation, advanced data analytics, and smart digital twin and secured computing, etc.

John and his wife are active participants in many community activities including K-12 schools, churches, foundations and universities. They have two grown-up daughters. In his leisure time, John likes to travel, hike and play chess.



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Piyush Sabharwall, Ph.D. Engineer of the Year



Pioneering and sustained contributions to the development of technologies for passive safety in next generation high temperature reactors with focus on advancement in thermal hydraulics and heat transfer.

Dr. Piyush Sabharwall is a senior staff nuclear research scientist working in the Nuclear Science and Technology Directorate at Idaho National Laboratory (INL) with more than 17 years of research and development experience. Dr. Sabharwall has coauthored two books and seven technical book chapters, with more than 300 peerreviewed publications including journal articles, conference proceedings, technical abstracts, magazine articles, and technical reports.

His expertise in the heat transfer, fluid mechanics, thermodynamics, nuclear reactor design, and reactor safety analysis qualifies him to serve as a technical lead on the U.S. Department of Energy (DOE), Office of Nuclear Energy's Microreactor R&D Program (MRP). His key research areas include:

- Safety and reliability of advanced reactor concepts
- System integration and power conversion systems
- High-temperature heat exchangers for advanced reactors
- Development of non-nuclear test beds to support microreactor development and deployment

Dr. Sabharwall has led research on thermal energy systems, advanced reactor concepts, designed and developed experimental systems for nuclear and thermal-hydraulic research and co-led development of integrated energy systems, among many others. His current research focuses on strengthening the demonstration and engineering capabilities, implementing new strategies, and overseeing engineering functional excellence for the microreactor program.

Dr. Sabharwall obtained his Bachelor of Science in Mechanical Engineering, from Wilkes University; a Master of Science in Nuclear Engineering from Oregon State University; a Masters in Renewable Energy and Sustainability Systems from Penn State University; a Master of Engineering in Engineering Management and Ph.D. in Nuclear Engineering from the University of Idaho. Dr. Sabharwall is an Adjunct Associate Professor in the Department of Mechanical Engineering at Texas A&M University and is an Adjunct Professor at University of Michigan in the Department of Nuclear Engineering and Radiological Sciences.

Dr. Sabharwall and his wife have two young children. Outside of work he enjoys playing tennis and cricket, travelling, and volunteering his time for community events.



Hui-Ping Wang, Ph.D. Engineer of the Year

Original and sustained contributions to the modeling of fundamental physics, the creation and application of innovative manufacturing technologies, and mentorship of next generation manufacturing scientists.

Hui-Ping Wang is a Chinese American research scientist, General Motors (GM) Technical Fellow, wife, and mother of two. She attended Tsinghua University in Beijing for bachelor's and master's degrees in Engineering Mechanics. After coming to the United States in 1995, she obtained her PhD in Mechanical Engineering from The University of Iowa in 2000 and has been working at the GM R&D Center ever since. As a well-recognized expert in the modeling of fundamental physics applied to welding and joining, Hui-Ping has made significant contributions to the applications of innovative welding technologies in GM's vehicle manufacturing.

Hui-Ping's pioneering work on resistance spot welding process simulation helped GM to develop first-in-industry aluminum-steel resistance spot welding technology. Her technical contribution to laser welding applications in GM have been crucial: Hui-Ping developed novel physics-based models of laser-material interactions and helped to unravel root causes of prevailing laser application challenges. Teaming up with GM's manufacturing team, she developed a spatter-free laser welding process for the 2018 Buick Enclave, defect-free aluminum laser welding process for the 2020 Corvette Stingray and Cadillac CT5, and robust remote laser welding processes for the 2022 Hummer Electric Vehicle.

Hui-Ping's passion for technology and innovation is exhibited through her achievements and honors: 95 peer-reviewed publications, 53 inventions (28 of which are in production), 3 GM Boss Kettering Awards (GM's highest corporate award for innovation), The Manufacturing Institute's prestigious 2021 STEP Ahead Award, the International Institute of Welding 2021 Heinz Sossenheimer Software Innovation Award, and the American Welding Society 2022 A. F. Davis Silver Medal Award. She is an active leader in the manufacturing research community serving as an associate editor for Journal of Materials Processing Technology. Since 2006, she has been diligently mentoring graduate students in their work as visiting scholars at GM R&D; 18 of whom have graduated and are working in the manufacturing industry around the world.



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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. Weihua Ye and all of the
2022 AAEOY Award Winners!**



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





Weihua Ye, Ph.D.

Engineer of the Year

Technical leadership in wireless analytics & automation, and contributions to Radio Access Network (RAN) open standards & programmability.

Dr. Weihua Ye currently serves as a Director Member of Technical Staff at AT&T Labs. She has over 20 years of experience in the wireless industry, with a Ph.D. from Syracuse University in Electrical Engineering and an MBA from the Kellogg School of Management, Northwestern University. Since 2005, Weihua has taken on various technical and leadership roles at AT&T, including engineering manager, Radio Access Network (RAN) platform architect, and wireless analytics & automation lead. She exhibits great passion with an outstanding track record of improving both network performance and customer experience.

Weihua challenges herself and others to think outside of the box, take a holistic approach, and embrace partnership. Her network analytics team has developed a popular mobility tool suite with over 80K usages per month, which is able to provide remote testing and scaled screening of passive intermodulation, check mobility customer quality, and diagnose root causes. It reduces the number of cell site visits (avoiding over \$15M in annual costs) and improves mean time to resolution. Weihua is instrumental to driving RAN openness and automation, being one of AT&T's key contributors in establishing the industry's O-RAN alliance. In 2017, her team successfully prototyped an automated closed-loop algorithm and demonstrated the feasibility of near real time RAN control. In following years, three use cases have been developed and taken through field trials. For over two years, her team represented AT&T in O-RAN as the co-chair of WG2. By giving innovations a practical application, Weihua has helped shape the future of open and software-defined RAN. Her recent project on end-to-end cross-layer diagnostics and geolocation-based analytics is revolutionizing wireless service assurance and network optimization.

Dr. Ye has seven papers published in prestigious journals and conferences, as well as ten patents issued by the USPTO. She and her husband have two children, a rising college freshman and a high school sophomore. Outside of work, Weihua enjoys music, reading, and hiking. She also runs marathons.

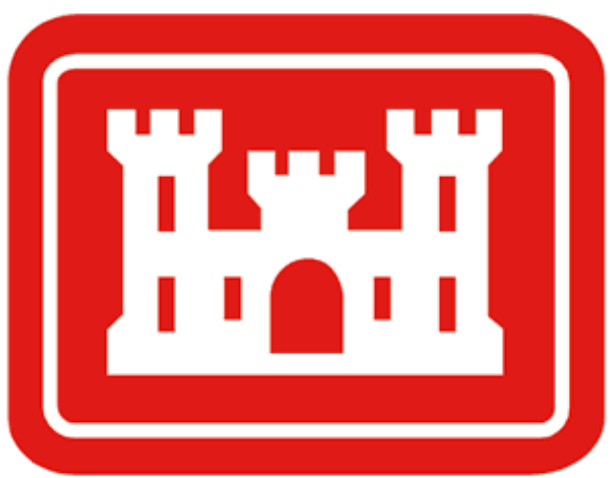


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Charley Xuelai Qian

Engineer of the Year



**US Army Corps
of Engineers.**

Construction Engineering Lead who strives for excellence in delivering quality buildings and facilities adopting local construction methods and industrial standards to achieve optimal results for the customers.

Charley X. Qian is currently serving as Iraq Resident Engineer, Transatlantic Expedition District, U.S. Army Corps of Engineers, who oversees construction projects funded by the United States in the Republic of Iraq. Prior to the tour in Iraq, Charley served as a Resident Engineer in Southern New Mexico, oversaw projects in Holloman Airforce Base, White Sand Missile Range, and Fort Bliss, also flood control and civil/utilities projects for nearby cities such as El Paso, Taxes. He also worked in Los Alamos National Laboratory on the Department of Energy projects in Northern New Mexico.

Charley served multiple tours in Afghanistan in supporting the country's rebuilding and stability. His main contributions include the construction of Afghanistan National Power Grid and Southern Electrical Power System; Kajaki Dam and Darla Dam irrigation system renewal; and sections of country's ring roads.

Charley managed the construction of hospitals, troop clinics, PX and commissary, piers for ships, shelters for aircrafts, lodging facilities, HQ buildings, barracks, and training centers. He was responsible for the design of Garrison Humphreys Infrastructure Utilities and Land Usage and the first Design Manager for Yangsan Relocation's in carrying out Sensitive Compartmented Information (SCI) programs and setting up engineering/contracting/construction procedures in accordance with the provisions of ICD 705.

Prior to his tour in South Korea, Charley worked for architectural firms in Georgia and was a member of American Institute of Architect. After receiving his bachelor's degree, he worked in Northwest China and appointed as the assistant general manager for Xian International Airport project (one of the national key projects at the time) coordinating the engineering efforts of over 100 architects and engineers.

Charley earned a Bachelor of Architectural Engineering degree from TsingHua University, Beijing, China; a Master of Architecture degree from Clemson University, South Carolina; a Master of Computer Science degree from Southern Polytechnic State University, Georgia; and a Master of Business Administration degree from University of Phoenix, Arizona. He is a Registered Architect in the State of Georgia since 1993.

Charley and his wife have three grown children; outside of work, he enjoys traveling, gourmet food, and home building.

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Tan M. Ly

Engineer of the Year

Talented engineer who has been at the forefront of numerous projects within the Department of Defense and representing the United States at the World Radio Conference. In this effort, Mr. Tan Ly has developed a reputation for straightforward, diplomatic answers to challenging national and international coordination issues.

Mr. Tan M. Ly, a Vietnamese refugee in 1980, accepted the International Spectrum Management position at Army Spectrum Management Office (ASMO), Deputy Chief of Staff, G-6, on 11 July 2014. In this capacity, he is the primary lead to defense and champion Electromagnetic Spectrum access for the Department of the Army and Department of Defense (DOD) at the international level. Representing the Army and DoD at the International Telecommunication Union (ITU) and World Radiocommunication Conference (WRC) every 4 years. He has led numerous sharing studies between International Mobile Telecommunication (IMT), and radar systems that operate in the 3GHz and 5GHz.

Mr. tan is a member of the U.S. Delegation at the World Radio Conference 2019 (WRC-19), 2015 (WRC-15) 2007(WRC-07). He Represented the DoD, and U.S. Air Force at (WRC-07), U.S. Army at (WRC-19, WRC-15), and a subject matter expert in Radiolocation, Radiodetermination, and mobile systems.

At the national level, he represents the U.S. Army At National Telecommunication Information Administration (NTIA) and a member of Inter-department Radio Advisory Committee (IRAC), Radio Subcommittee Advisory (RCS), personal acquaintance with representatives from the Air Force Spectrum Management Office (AFSMO), Department of Navy (DON), DISO, Federal Aviation Administration (FAA), the National Telecommunications and Information Administration (NTIA), Federal Communication Commission, the Joint Spectrum Center (JSS), the Global Positioning System (GPS) wing, the North American Air Defense (NORAD) program office, and the 84 RADES radar evaluation squadron.

Mr. Tan M. is married to Beverly K. Ly, and they have two sons - Calvin Ly and Justin Ly.



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**Sandia
National
Laboratories**

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**DISCOVER
ENGINEERING**



Bishnu P. Khanal, Ph.D. Most Promising Engineer of the Year



Rising technical leader and innovator for next generation optical lithography process development for application specific integrated circuits, complementary metal-oxide-semiconductors, silicon photonics, waveguide, ion trap and quantum computing technologies.

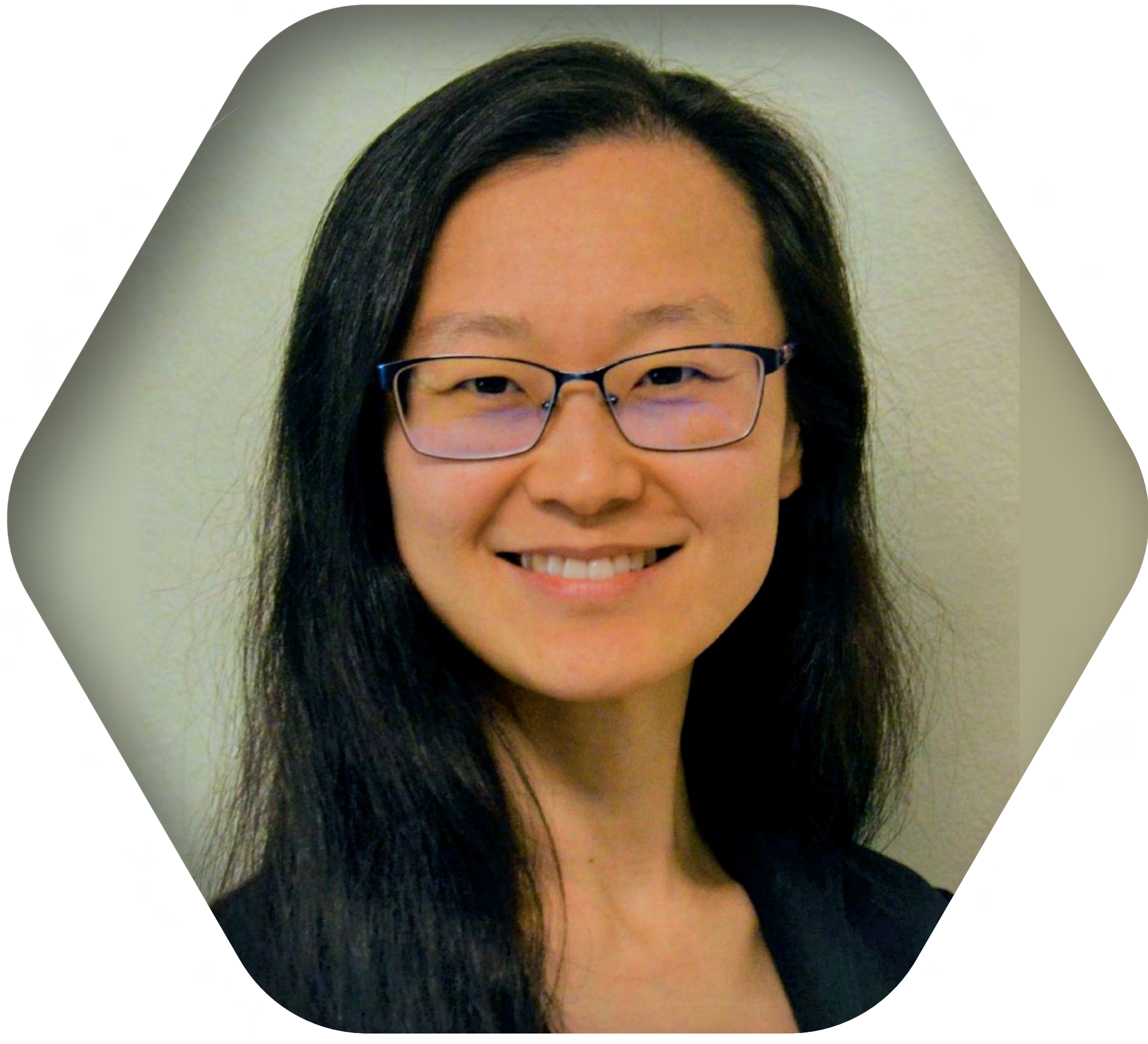
Bishnu P. Khanal is the R&D manager at Sandia National Laboratories of the Materials Mechanics and Tribology department. He leads a team of scientists, technologists, post-docs, and students in conducting research on the fundamental understanding of materials mechanical behavior. Prior to this role, Bishnu led the advanced optical lithography process development activities for application specific integrated circuits, complementary metal-oxide-semiconductors, silicon photonics, waveguide, ion trap and quantum computing technologies at Sandia's Microsystems, Engineering, Science, and Applications division. He was the key member and technical leader on several, nuclear weapon, Laboratory Directed Research & Development projects, Defense Advanced Research Projects Agency, and Intelligence Advanced Research Projects Activity programs focusing on microelectronics and micro-electromechanical system development.

Previously, Dr. Khanal worked as a R&D process engineer at Intel Corporation, where he installed and qualified process equipment and developed etch processes for several technology nodes. Dr. Khanal led programs for tool and product qualification and technology transfer to high volume manufacturing facilities in the United States and abroad. In addition, Dr. Khanal led the Intel Module Team a cross-functional team of engineers, for inline defect reduction and led several cost-cutting projects, saving several million dollars a year in manufacturing expenses.

While earning his PhD, Dr. Khanal worked on the synthesis, nano- engineering, and self-assembly of one-dimensional metallic nanocrystals. The seven novel nanostructures Dr. Khanal developed have been licensed and are commercially available. Dr. Khanal has published more than 25 papers in highly prestigious peer-reviewed journals, receiving more than 4,200 citations.

Dr. Khanal earned bachelor's and master's degrees in chemistry from Tribhuvan University, Nepal, and a master's and doctorate degree in chemistry from Rice University, Houston, TX.

Dr. Khanal and his wife have two children; outside of work, he enjoys spending time with his family, running, hiking, vegetable gardening and writing poems and lyrics.



Shuonan Dong, Ph.D.

Most Promising Engineer of the Year

Technical innovator who is recognized as a rising star in robotic technology and integrated factory automation and freely shares her knowledge to support and mentor students and co-workers of all ages, especially women in STEM careers.

Shuonan (Shannon) Dong has amassed an impressive array of technical accomplishments during her nine years with Boeing in Seattle. She is currently an Advanced Technologist in Boeing Commercial Airplanes Product Development, where she is the Principal Investigator for projects including vision-based robotic drilling technology, mechanical in-tank tool, and cross-ply machine. In addition, she holds the prestigious title of Boeing Associate Technical Fellow, with a focus on Integrated Factory Automation.

Dr. Dong is recognized as a leader in the development and application of robotic technology to aerospace manufacturing, specializing in composite fabrication and assembly. Her achievements in integrated factory automation have reduced time and cost while enhancing precision and performance throughout the production process on Boeing programs including the 777X and 737. Her vision-based robotic drilling technology is expected to yield an estimated \$54M cost avoidance at the Boeing Composite Manufacturing Center and is baselined for future airplanes. She holds two patents and several pending disclosures for automated manufacturing systems and has published and presented her findings in numerous technical journals and conferences.

Dr. Dong earned her BS, MS, and PhD degrees from the Massachusetts Institute of Technology Department of Aeronautics & Astronautics. Before joining Boeing, she led and participated in a wide range of research and development projects for NASA, Massachusetts Institute of Technology, and Monterey Bay Aquarium Research Institute.

Dr. Dong lives in Seattle with her husband and two children and is an avid volunteer, mentor, and educator with a goal of enhancing opportunities in STEM for girls and women. She has volunteered at her children's school as an assistant teacher, admissions officer, stage production coordinator, and general assistant. In addition to mentoring students and Boeing employees, she is an Affiliate Assistant Professor at the University of Washington. She has a particular interest in the power of music to bring people together, and she has spearheaded music and theater programs for people of every age, from toddlers to the elderly.

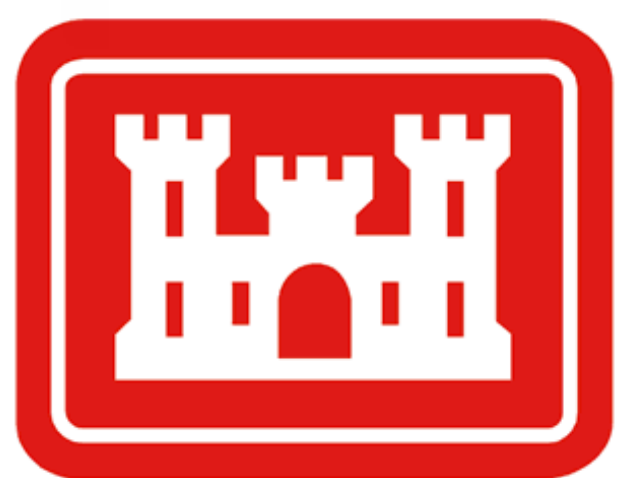


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Justin A. Goo, P.E.

Most Promising Engineer of the Year



**US Army Corps
of Engineers.**

A dedicated professional that strives to provide engineering solutions to the Nation's toughest challenges through high level technical expertise and engineering management skills.

Justin A. Goo, P.E., is the Chief of the Civil Works Technical Branch at the U.S. Army Corps of Engineers (USACE), Honolulu District. In his current position, he leads a staff of engineers that provide water resource engineering solutions to non-Federal partners throughout the Pacific region in the fields of flood risk management, coastal erosion, commercial navigation, ecosystem restoration, and climate preparedness and resilience.

Justin started with USACE in 2008 and has held variety of roles ranging from coastal engineer, project manager, technical lead, government negotiator, and supervisory civil engineer at both the Honolulu and Japan Districts. During that time, he has contributed his expertise in design, technical management, and project management to a variety of Civil Works, Military Construction, and Host Nation projects throughout the Pacific region.

Justin successfully led the planning, design, and construction of numerous high visibility and mission critical projects to both the Department of Defense as well as the public through USACE's Civil Works program. He also spearheaded innovative efforts such as the implementation of the technical lead position at the Japan District, incorporation of Host Nation marine construction requirements for US funded Military Construction projects overseas, and implementation of USACE's climate preparedness and resilience initiatives within the Pacific Ocean Division area of responsibility.

Justin was born and raised in Honolulu, Hawaii and received his Bachelor of Science degree in Civil Engineering from the University of Southern California in 2005 and Master of Science degree in Ocean and Resources Engineering from the University of Hawaii at Manoa in 2007. Justin, wife Kris, and daughter Kaelyn reside in Aiea. In his personal time Justin enjoys playing and coaching soccer, surfing, and speaking at STEM outreach events at local schools and universities.



2020- 2021 AAEOY Awardees

Distinguished Leadership in Technology Award

Ms. Anne Chow AT&T

Distinguished Lifetime Achievement Award

Ms. Jensen Huang NVIDIA

Asian American Executive of the Year

Dr. Gurshaman Baweja Texas Instruments

Dr. Mukesh Khare IBM

Mr. Steven J. Yahata The Boeing Company

Ms. Jennifer Zhao ams

Asian American Engineer of the Year

Mr. Pratik Gupta IBM

Dr. Zhi Li AT&T

Col. Dannielle Ngo U.S. Army Inspector General Agency

Mr. Cao Nguyen Naval Air Warfare Center

Dr. Khanh D. Pham U.S. Air Force Research Laboratory

Dr. Bo Song Sandia National Laboratories

Mr. Morteza Safai The Boeing Company

Dr. Xingcheng Xiao General Motors

Dr. Shuqing Zeng General Motors

Asian American Most Promising Engineer of the Year

Ms. Poonam Aggarwal Naval Undersea Warfare Center Division

Dr. Emad Aqad DuPont Electronics & Imaging

Mr. Jacky-Vy Chau The Boeing Company

Dr. Dong Ding Idaho National Laboratory

Ms. Indu Shukla U.S. Army Engineer Research and
Development Center



2022

Executive and Leadership Forum

Asian Americans Striving for Excellence

Sustainability Through Innovation and Technology

AUG 6 (Saturday) 9:00 AM - 12:00 PM



How to Become Successful Leaders Under Current Competitive and Challenging Environment?

9:00 AM

MODERATORS

MR. JINGHUI NIU DR. CHUCHING WANG

PANELISTS

MS. LAURA BOTUSCH

DR. KARTHIK VASANTH

MS. JUHI JOTWANI MCCLELLAND

MS. ANNE CHOW



How to Become a Successful Engineer Under Current Competitive and Challenging Environment?

10:00 AM

MODERATORS

MR. JINGHUI NIU DR. JASON WEN

PANELISTS

DR. JOHN J DONG

DR. PIYUSH SABHARWALL

DR. NATARAJ NAGARATNAM

DR. HUI-PING WANG

DR. WEIHUA YE



How to Pursue Your Career Under Current Competitive and Challenging Environment?

11:00 AM

MODERATORS

DR. JASON WEN

PANELISTS

MS. KARIN ROMMEL

DR. VERONICA GUO

2022

Technical Symposium

Asian Americans Striving for Excellence

Sustainability Through Innovation and Technology

AUG 6 (Saturday) 1:00 PM – 4:30 PM



Environment and Resources

MODERATORS

DR. SCARLETT ZHAI

DR. YUE RONG

1:00 PM

Drought and Fight - What Californians Have Been Doing for the Water Crisis?

DR. JASON WEN

1:30 PM

Integrated Water Management in North Orange County, California.

DR. JIAN PENG

2:00 PM

Reducing Mobile Source Emissions in Southern California.

DR. FAN XU

2:30 PM

Coffee Break - Boeing Social Party

3:30 PM

The Importance of Groundwater Sustainability, Resource Management, and Technical Innovation in Urbanized Regions

MR. MOISES SANTILLAN

3:30 PM

"Forever Chemicals": What are PFAS and What Has Been Done to Deal With Them?

DR. ZHONG XIONG

4:00 PM

SCCAEAP & AEC Environmental Summer Camp 2022 Winter Presentation

2022

Technical Symposium

Asian Americans Striving for Excellence

Sustainability Through Innovation and Technology

AUG 6 (Saturday) 1:00 PM – 4:30 PM



Artificial Intelligence (AI) and Transportation

MODERATORS

DR. XUDONG JIA

MR. CHENXI GUO

1:00 PM

Cyber Mobility Mirror: A Roadside sensor Enabling Technology for Cooperative Driving Automation in a Mixed Traffic Environment

DR. GUOYUAN WU

1:30 PM

Exploring and Evaluating New Mobility Solutions for Sustainable Transportation.

DR. PENG HAO

2:00 PM

Data is the King: The Data-Centric AI

DR. XIWU CAO

2:30 PM

Coffee Break - Boeing Social Party

3:30 PM

Technology Fusion and Integration in the Era of AI and Virtual Space.

DR. PETER WEI

3:30 PM

Innovation & End to End Optimization: Advanced Learning on Image Sensor SOC

DR. SCOTT CHEN

4:00 PM

Robotic Metaverse

2022

Technical Symposium

Asian Americans Striving for Excellence

Sustainability Through Innovation and Technology

AUG 6 (Saturday) 1:00 PM – 4:30 PM



Atmosphere, Aerosphere, and Aviation

MODERATORS

DR. JONATHAN JIANG

DR. YUTAO HE

1:00 PM

The Science of Climate Change and Its Political Debate

DR. BAIJUN TIAN

1:30 PM

NASA Satellite Observations for Climate Research

DR. HUI SU

2:00 PM

Sierra Snowpack Reduction Due to Warming

DR. CHUCHING WANG

2:30 PM

Coffee Break - Boeing Social Party

3:30 PM

Space Exploration and You! - With a Focus on Mars

DR. DANKAI LIU

3:30 PM

How Leadership in Aerospace Affected Me.

MS. KAYLA NGUYEN

4:00 PM

Next Generation of Transportation System Based on Electromagnetic Technology

MR. RIVEN LIU



Asian American Engineer of the Year 2023

Hyatt Regency, Jersey City, NJ

www.aaeoy.org

2023 Executive

Committee

Co-Chairs

Dr. C. Eric Wu

Dr. Monsong Chen

Chapter President

Dr. Chi-Ming Chen

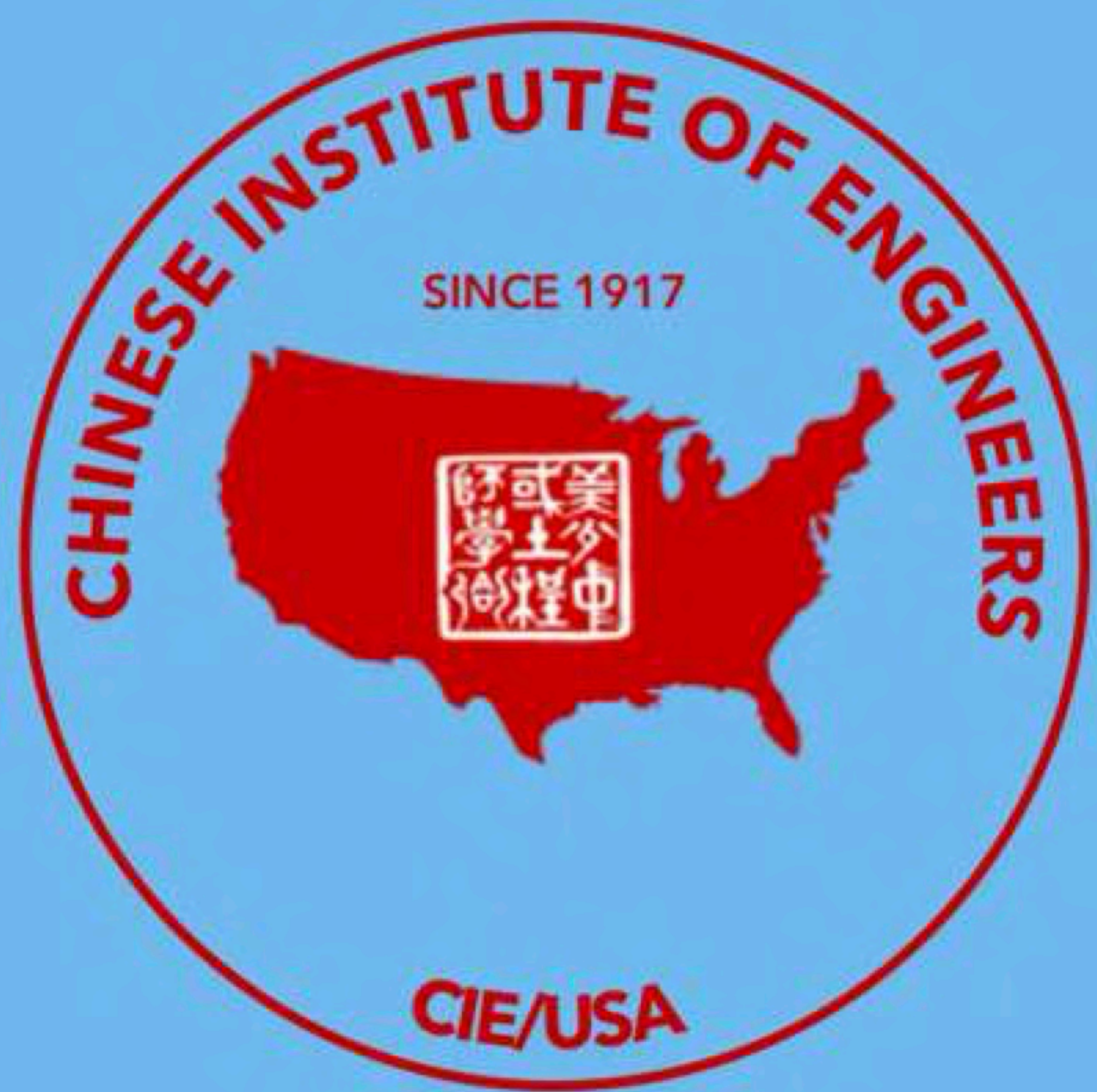
Advisory Council

Dr. Allen Chen

Dr. Yew-Huey Liu

Dr. Chuching Wang

Dr. Jinghui Niu



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CIE-USA 2023

National Council

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Dr. Xiaoxi Wang

Vice Chairman

George T. Wang

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CIE-SEATTLE

CIE-SFB

CIE-SOCAL

AAEOY 2023: Saturday, September 23rd, 2023

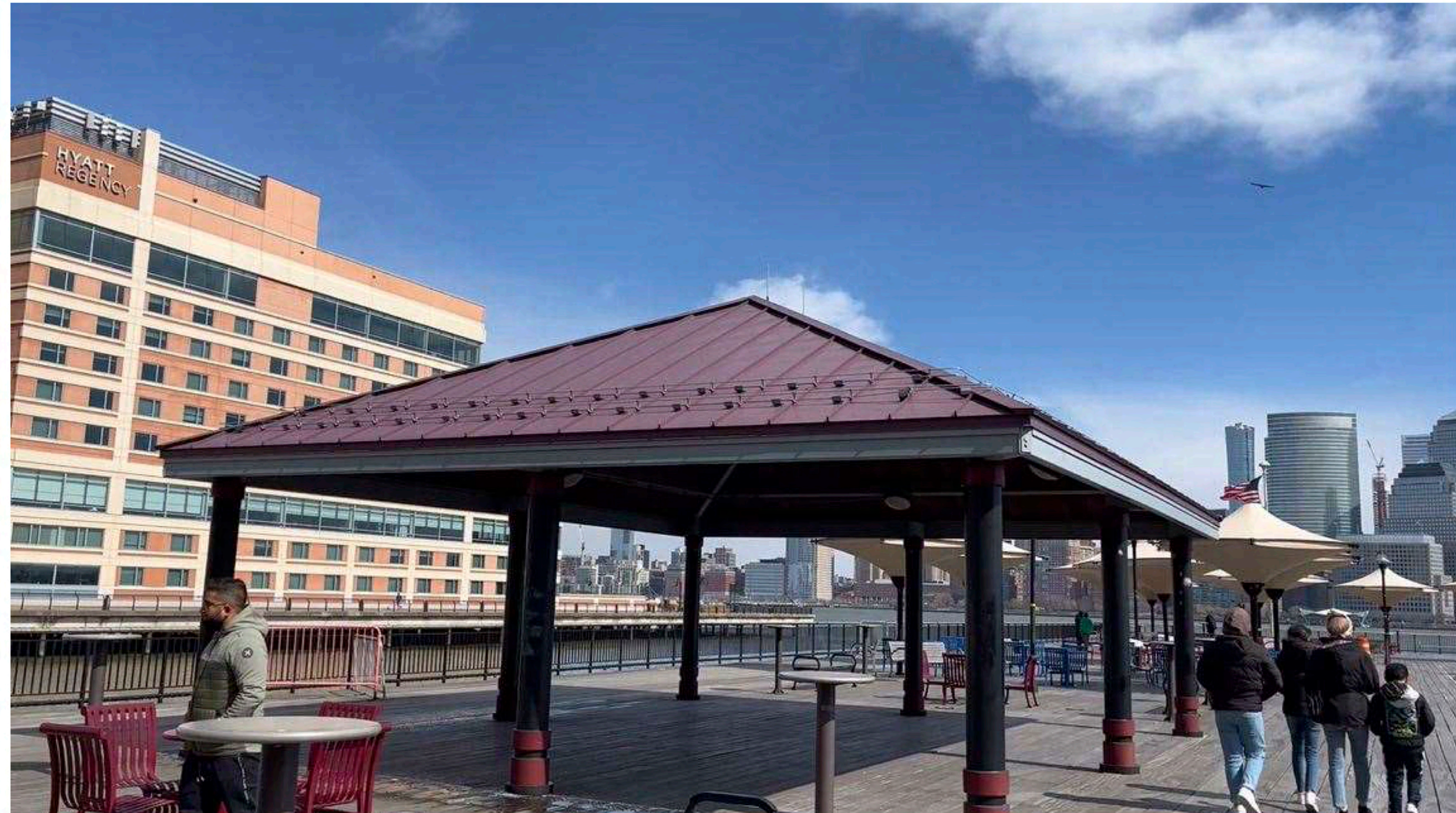
Hyatt Regency, Jersey City, NJ 07302

Transportation: From Newark Airport

→ Take AirTrain to Newark Liberty Airport Station

→ Take PATH Train to Exchange Place Station

Hyatt Regency, Jersey City is located right next to the Exchange Place Train Station.



The event and award information, the past honorees and program information are available on the website <http://www.aaeoy.org>. For more information and any question, please contact Dr. C. Eric Wu at 914-960-8059, Dr. Monsong Chen at 914-391-4981, or send emails to aaeoy_2023@cie-usa.org. For more information about CIE-USA, please visit <http://www.cie-usa.org>.

Curiosity defines me.



Devshree (She/Her)
Toronto, Canada

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Asian American Engineer of the Year 2022

Dr. Piyush Sabharwall
Senior Staff Scientist



Special congratulations

to all of the Asian American Engineer
of the Year 2022 winners!

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The Chinese Institute of Engineers has always been at the forefront of promoting and recognizing the outstanding accolades of Asian American professionals in the space of Science, Technology, Engineering and Mathematics. General Motors proudly sponsors CIE-USA and congratulates its recipient of the prestigious Asian American Engineer of the Year award, Dr. Hui-Ping Wang. We thank you, Dr. Wang, for your tireless work and efforts to positively impact where we live and the world around us.

everybody in.



Congratulations to All AAEOY Awardees!

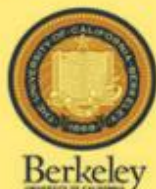
Wish 2022 AAEOY A Great Success !!



楊士慧老師 Ms. Angie Wang

史坦福領袖教育
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我們的學生
2022年
進入UC伯克來
進入IVY與頂尖
得到超多項獎學金



轉學生的救星
名校大學配額規劃導航員
電競訓練比賽專家

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高中課程認證與輔導，大一大二學業輔導
各種興趣，才藝和領袖班，線上全球，
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聯繫電話：(909) 202-3839
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歡賀
我們的學生
2021年
進入UCLA-100%
進入UC伯克來-98%
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慶賀
我們的學生
2021年
應屆畢業生
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陳興邦

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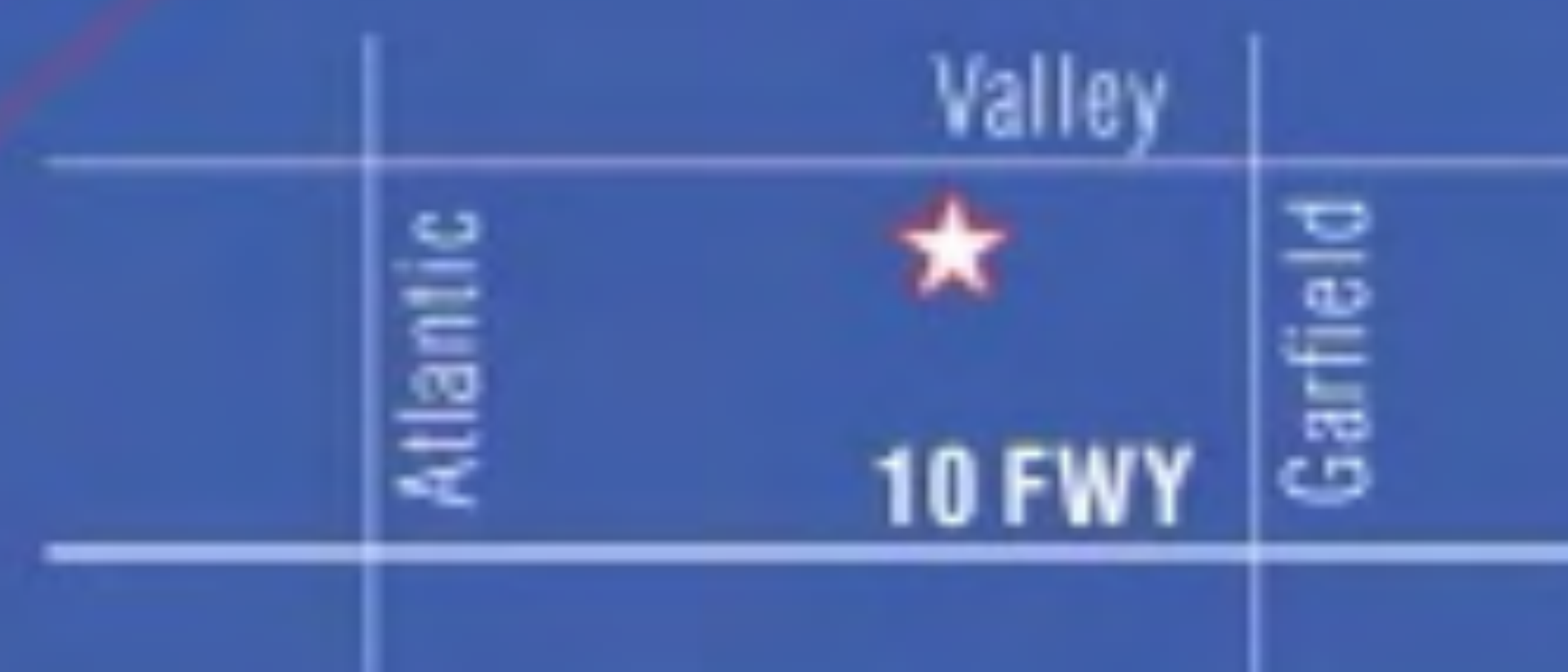
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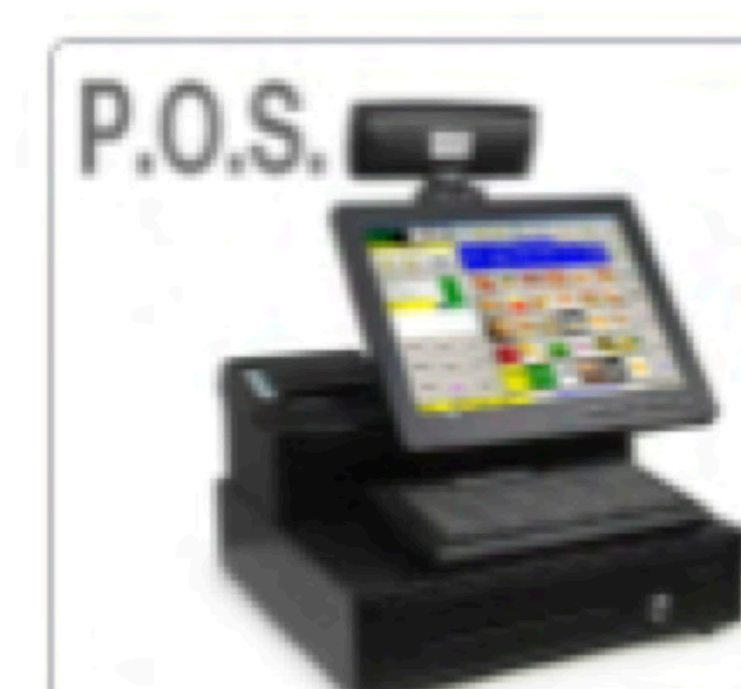
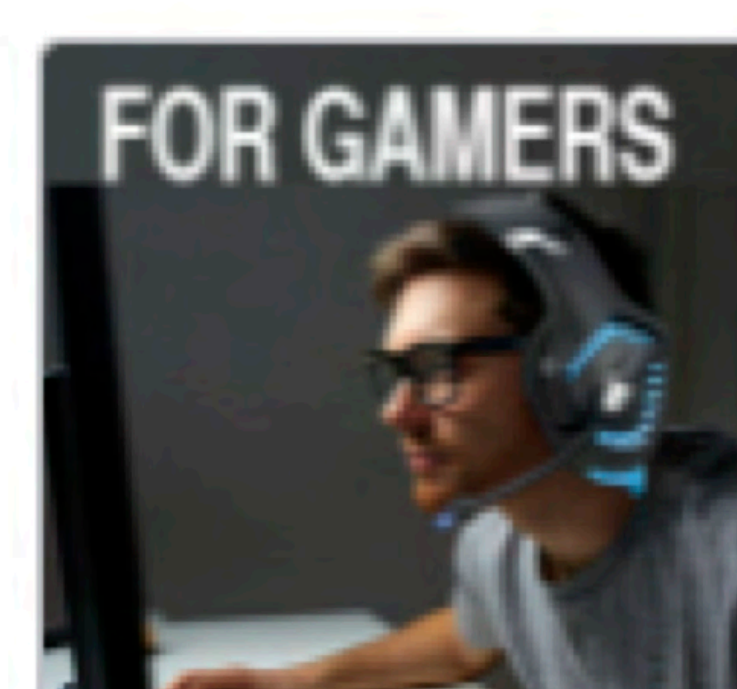
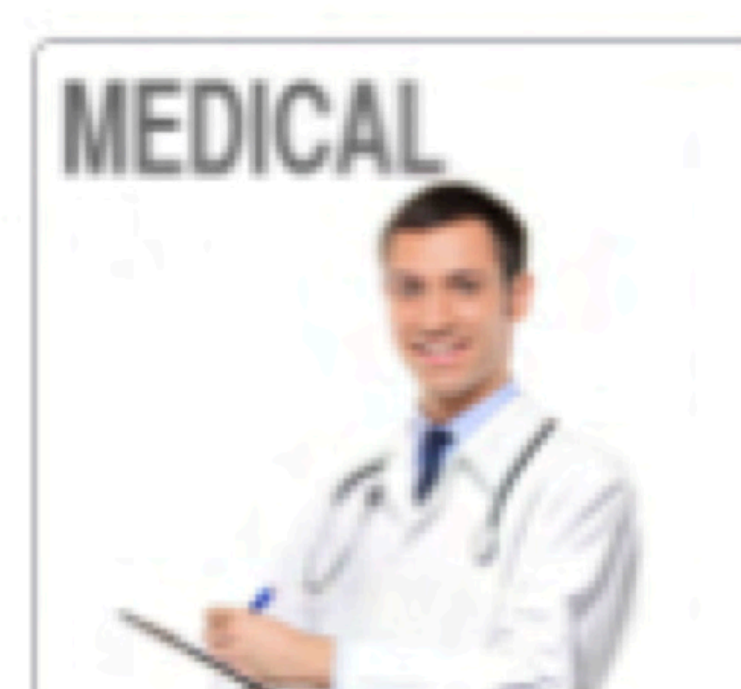


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2022

Asian Americans Striving for Excellence

**Sustainability Through
Innovation and Technology**