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LA
2022

Welcome to the 2022

**Asian American Engineer of the Year
Award Ceremony and Conference**

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.





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)	
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)	Job Fair (Suite A & B)
12:30 PM		Technical Symposium (Pacific Coast 4, 5 & 6) Breakout Sessions (1pm-2:30pm)	
1:00 PM			
1:30 PM			
2:00 PM			
2:30 PM	Bus Back to Hotel	Coffee Break (Pacific Coast 2 & 3)	
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

Executive and Leadership Forum

Asian Americans Striving for Excellence

Sustainability Through Innovation and Technology

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

1

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

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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

3

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

2022 AAEOY Award Ceremony

4:30pm

VIP Reception

AAEOY Co-Chairs

5:30pm

Banquet Seating

6:00pm

Emcee's Welcome

Ann Hwu & Ryan Limb

National Anthem

Diamond Bar High School Pep Band

Pledge of Allegiance

6:15pm

AAEOY Chair's Remarks

AAEOY Co-Chairs

Congratulatory Letters

Dinner

7:00pm

Keynote Speech

Boeing Chief Aerospace Safety Officer

The Aerospace Safety Journey

Michael P. Delaney

7:15pm

Award Presentation I

Distinguished Award I

NASA Ames Research Center Director

Keynote Speech by Dr. Tu

Dr. Eugene L. Tu

8:15pm

Dance Performance

Choreographed by Anne Ma

Miracle

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

AAEOY Co-Chairs

2023 AAEOY Announcement

9:40pm

See you all at 2023 AAEOY

Thanks to the 2022 AAEOY Sponsors, Partners and Volunteers

Sponsors

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

Mrs. Scarlett Kwong Dr. Wei Li Mr. Anmin Liu

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

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

Dr. Jason Wen Ms. Mabel Hsi

Nomination Committee

Dr. Tony Torng 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



AAEOY

Asian American Engineer of the Year
Los Angeles 2022



Thank you for your support!

