



南加州中華科工學會

Chinese-American Engineers and Scientists
Association of Southern California, USA

Since 1962

Envisioning Beyond the Horizon

62nd CESASC

Annual Convention Journal

2024



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Portfolio Manager

626-405-8206

xuemei.wei@ubs.com

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WELCOME MESSAGE
FROM CESASC PRESIDENT 2023-2024
May 4, 2024



Dear CESASC Members and Friends:

I am happy to welcome you to the 62nd CESASC Annual Convention and Anniversary Celebration Gala! As we step into this new chapter of our journey, CESASC continues to thrive on a legacy enriched by over six decades of fostering innovation, collaboration, and community. This year has been another landmark period, witnessing unparalleled advancements in the realms of technology and science, which redefines the boundaries of what's possible. Embracing the spirit of these advancements, we have themed our convention “Envisioning Beyond the Horizon,” aiming to stretch our collective imagination to the untapped potentials of the future.

Our convention this year features an array of inspiring keynote speeches, including “Evolution of Intelligence and Technology” by Caltech Professor Andrew Ingersoll, and “Climate Change and California” by UCLA Professor Rong Fu. These talks are poised to offer profound insights into the challenges and opportunities that lie ahead, urging us to think and act beyond the conventional limits.

In line with our theme, we are particularly excited about this year’s student essay contest titled “An Image for Interstellar Messaging”. We extended our invitation to individuals worldwide to participate in this monumental endeavor by submitting images and photos, accompanied by essays that elucidate why their chosen visual captures the essence of our planet and humanity. This initiative is a testament to our belief in the power of collective imagination and creativity in forging connections, not just among ourselves, but potentially with the cosmos.

The Technical Symposium continues to be a cornerstone of our event, offering insights into cutting-edge research and developments across various disciplines. Similarly, our Entrepreneurship and Innovation Forum are designed to empower and inspire attendees, fostering dialogues on innovation, personal wealth management, and the societal impact of technology.

As we gather tonight for the Convention Gala, we are happy and excited to celebrate the achievements of our community, including honoring the recipients of the 2024 CESASC Achievement Award, CESASC Scholarship, Lisa Lu Scholarship, and the winners of our diverse contests and initiatives. We also take a moment to reflect on CESASC’s journey through the years, highlighting our milestones and the vibrant history that shapes our identity.

We owe a deep gratitude to our sponsors, whose generous support has been pivotal in bringing our vision for this convention to life. Moreover, the dedication of our volunteers, who have tirelessly worked to ensure the success of this event, deserves our heartfelt appreciation. Serving this community has been an enriching and fulfilling experience, and we are committed to advancing CESASC’s mission in the years ahead.

Enjoy the enlightening programs we have prepared for you today, and I eagerly anticipate the opportunity to connect with you all.

Sincerely,

Jonathan H. Jiang, Ph.D.
President of CESASC

JUDY CHU, Ph.D.

WASHINGTON OFFICE:

2423 Rayburn House Office Building
Washington, DC 20515
(202) 225-5464
(202) 225-5467 (Fax)

PASADENA DISTRICT OFFICE:

527 South Lake Avenue, Suite 250
Pasadena, CA 91101
(626) 304-0110
(626) 304-0132 (Fax)



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

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May 4, 2024

Chinese-American Engineers and Scientists
Association of Southern California
San Gabriel, CA

Dear Friends,

It is with great pleasure that I extend my congratulations to the Chinese-American Engineers and Scientists Association of Southern California (CESASC) on the occasion of its 62nd Annual Convention, themed "Envisioning Beyond the Horizon." This celebration of professional excellence among Chinese American engineers and scientists is truly commendable.

The 62nd Annual Convention, showcasing innovative technologies for sustainability, provides an invaluable platform for networking and expanding professional exposure within the engineering and science communities. In these historic times, your dedication to innovation and discovery is particularly noteworthy, and the recognition and support provided by CESASC are crucial in fostering progress.

I applaud CESASC for hosting this annual convention and urge researchers to persist in safeguarding the interests and rights of scientists and engineers through collective organizational efforts. Furthermore, I wholeheartedly support the Association's endeavors in fostering cross-cultural relationships through both global and local networking initiatives.

On behalf of the United States House of Representatives and the constituents of the 28th Congressional District, I extend my heartfelt congratulations and best wishes for the ongoing success of the Chinese-American Engineers and Scientists Association of Southern California, as well as our esteemed science and engineering leaders.

Sincerely,

A handwritten signature in black ink that reads "Judy Chu".

JUDY CHU, Ph.D.

Member of Congress, 28th District





FIONA MA, CPA
TREASURER
STATE OF CALIFORNIA

May 4, 2024

Dear Friends,

As the 34th Treasurer of the State of California, it is my pleasure to join you in celebration of the Chinese-American Engineers and Scientists Association of Southern California's 62nd Annual Convention.

From its founding in 1962, CESASC has been dedicated to bolstering the professional excellence of Chinese-American engineers and scientists and advocating for their continual success. I commend CESASC for its commitment to not only supporting its members through professional development and educational opportunities, but also the community via various acts of philanthropic service.

This 62nd Annual Convention is truly an example of the groundbreaking brilliance and the cutting-edge excellence that is found within the Golden State. May you all be inspired to *envision beyond the horizon* as you press toward successes at this convention and in your respective industries.



Thank you for taking part in this amazing convening of the Chinese-American Engineers and Scientists Association of Southern California. I extend my sincere best wishes for a successful event and many more years of service.

In Peace and Friendship,

A handwritten signature in black ink, appearing to be "Fiona Ma".

FIONA MA, CPA
California State Treasurer



2024 CESASC Convention Daytime Program

南加州中華科工學會第 62 屆年會研討會

1:00 pm – 5:00 pm, May 4, 2024, Sheraton Cerritos Hotel

Envisioning Beyond the Horizon 展望未來

TIME	TOPIC AND LOCATION
1:00 ~ 1:30 pm	Networking (Lobby)
1:30 ~ 2:50 pm	<p align="center"><u>CESASC Technical Symposium</u></p> <p align="center">Host and Technical Symposium Committee Chair: Dr. Liping Yan</p> <p align="center">1:30 – 1:50 pm: The Future of Physics</p> <p align="center">Speaker: Professor Yanbei Chen, California Institute of Technology</p> <p align="center">1:55– 2:15 pm: Climate Change and Extreme Weather Events</p> <p align="center">Speaker: Professor Gang Chen, University of California, Los Angeles</p> <p align="center">2:20 – 2:50 pm: The Mars Sample Return Mission</p> <p align="center">Speaker: Dr. Dankai Liu, NASA Jet Propulsion Laboratory</p>
2:50 ~ 3:00 pm	Networking Break
3:00 ~ 4:30 pm	<p align="center"><u>NewCare Entrepreneurship and Innovation Forum</u></p> <p align="center">Host and Entrepreneurship and Innovation Committee Chair: Dr. Jiachen Zhang</p> <p align="center">3:00-3:20 pm: Keeping up with Innovation: Perspectives for the Southern California Startup Ecosystem</p> <p align="center">Speaker: Dr. Alice Liu, ID8 Innovation</p> <p align="center">3:20-4:10 pm: Panel Discussion on Healthcare Innovations</p> <p align="center">Panelists: Dr. Byron Shen, Stephen Chen, Dr. Howard Xu</p> <p align="center">Moderator: Aaron Ma</p> <p align="center">4:10-4:30 pm: Personal Wealth Management</p> <p align="center">Speaker: Xuemei Wei, UBS Financial Services Inc.</p>
4:30 ~ 5:00 pm	Networking and Photo Session
5:00 pm	Registration and Networking (Lobby)



2024 Technical Symposium Speakers



Professor Yanbei Chen holds a Bachelor's degree in Physics from the Peking University and a PhD in Physics from the California Institute of Technology, where he studied under Professor Kip S. Thorne. He has previously worked at the Albert Einstein Institute (AEI). His research group at AEI was supported by the Alexander von Humboldt Foundation's Sofia Kovalevskaya Award. In 2007, Professor Chen was appointed as a professor in the Department of Physics at the California Institute of Technology, where his current research receives support from the National Science Foundation.



Professor Gang Chen is a Professor at the University of California-Los Angeles' Department of Atmospheric and Oceanic Sciences. His research emphasizes understanding the fundamental dynamics of atmospheric circulation and chemical transport. By blending theory with numerical modeling, his team aims to decipher atmospheric global circulation patterns, including tropical and extratropical phenomena, extreme weather events, and ozone exchange between the stratosphere and troposphere. The work is crucial for grasping weather, hydrological, and air pollution extremes.



Dr. Dankai Liu is an aerospace engineer at NASA's Jet Propulsion Laboratory (JPL), part of the California Institute of Technology. He's the Project System Engineer for the NASA-ISRO Synthetic Aperture Radar (NISAR) mission, a collaboration with ISRO to launch a satellite for studying Earth's natural processes. Dankai has played pivotal roles in JPL's major projects, such as the Orbiting Carbon Observatory 2 (OCO-2), Aquarius mission, Space Interferometry Mission, and the Mars Science Laboratory (MSL), among others. His work has earned him numerous accolades, including The

Engineer's Council Outstanding Engineering Achievement Merit Award, NASA Exceptional Achievement Medals, and recognition from Tatung University, Texas Tech University, and the American Institute in Taiwan for his contributions to science and engineering.



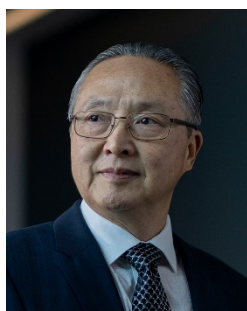
2024 Entrepreneurship and Innovation Forum Speakers



Dr. Jiachen Zhang is a tenure-track Assistant Professor in the Department of Civil and Environmental Engineering at the University of Southern California (USC). Dr. Zhang holds a Ph.D. in Environmental Engineering from USC and a B.S. in Atmospheric Sciences from Peking University. Prior to returning to USC, Dr. Zhang was the manager of the Mobile Source Technology Assessment and Modeling Section at the California Air Resources Board, where she led a team of scientists and engineers to conduct original research projects, develop emissions inventory, and inform first-of-their-kind policies aimed at promoting electric vehicles and reducing air pollutant emissions. Additionally, she chairs the Entrepreneurship and Innovation Committee of the Chinese-American Engineers and Scientists Association of Southern California and serves as the secretary of the Air & Waste Management Association West Coast Section. She was named by the All America Chinese Youth Federation (AACYP) to the 2022 “Top 30 Under 30,” an annual award for Asian American young entrepreneurs and aspiring leaders.



Dr. Alice Liu is a partner at ID8 Innovation, a venture capital and market development accelerator. She has a diverse background spanning technology, innovation, and entrepreneurship across academia, corporations, and start-ups. At Stanley Black and Decker, she led the venture studio where tangible innovation was created through the launch of new ventures. At USC, she helped lead Technology Innovation and Entrepreneurship at USC's Viterbi School of Engineering. Under her leadership the school launched its first deep technology incubator, the Viterbi Startup Garage, where she created an ecosystem for venture acceleration and training to rapidly launch technology companies. She was named an Amazon Alexa Innovation Fellow in 2018. Prior to this, Alice was Director of Business Development and Strategy at Applied Minds, a multidisciplinary innovation company that designs, builds, and creates new technologies and companies in partnership with leading corporations and entrepreneurs. Alice started her career in management strategy consulting at Bain and Company and Boston Consulting Group. Alice holds a B.S. in Biology and Ph.D. in Computational Neural Systems from Caltech, where she also taught data science and machine learning and served on the Board of Directors of the Caltech Y and the Caltech Alumni Association.



Dr. Howard Xu has been a Professor of Microbiology at the Department of Biological Sciences, California State University, Los Angeles (Cal State LA) since 2004 after a seven-year career in the biotech industry. Dr. Xu has taught two dozen microbiology and biotechnology courses and developed and led biotech training programs at Cal State LA. He currently serves as the Director of the Post-baccalaureate Certificate Program in Biotechnology. Dr. Xu has mentored and trained more than 100 students and interns in his microbiology/biotechnology research lab for over 19 years. Because of his achievements in biotech teaching, training, research, and services, Dr. Xu was awarded Andreoli Faculty Service Award (2011), and Faculty Research Award (2018) by CSUPERB (California State University Program for Education and Research in Biotechnology). More recently, Dr. Xu spearheaded Cal State LA's Bioscience Initiative as Director of Incubator Development and Programming. The Bioscience Initiative is anchored by the Rongxiang Xu Bioscience Innovation Center. The Rongxiang Xu Bioscience Innovation Center is the home of LA BioSpace, a wet-lab-focused bioscience incubator directed by Dr. Xu. With biotech R&D experience in the biotech industry and academia, Dr. Xu developed and has been running the LA BioStart Bioscience Entrepreneurs Boot Camp since 2017 in collaboration with many key bioscience stakeholders and partners. He was awarded Outstanding Professor in 2019 and the President's Distinguished Professor in 2023 at Cal State LA.



Stephen Chen is the founder and CEO of Scanwell Health, a digital health company that makes healthcare more accessible through smartphone-enabled, at-home testing. During the pandemic, Stephen collaborated with Becton Dickinson (BD) to develop a smartphone-powered home COVID-19 test. In 2021, BD acquired Scanwell to expand and scale digital at-home testing. With over 20 years of experience in diagnostics, Stephen also founded Petnostics, which offers at-home urine test products for pets, and pitched it on Shark Tank, receiving a deal from Kevin O’Leary and Lori Grenier. Stephen received his B.S. in Engineering at the University of Michigan and his MBA at Harvard Business School.



Aaron Ma is the Director of Clinical Research and Data Science at Cognitive Leap, a global digital mental health company focusing on mental health challenges such as ADHD. As a Principal Investigator, Aaron successfully led a multi-site clinical trial to test the acceptability and feasibility of Virtual Reality Attention Tracker (VRAT) in assessing attention and inhibitory control. Aaron is leading the effort in 510(k) submission of the VRAT software as a medical device category to FDA. Upon FDA approval, it would become the world's first ever VR-powered diagnostic tool in the mental health field. Aaron is also specialized in data science, machine learning, and computational bioinformatics. He led the design of VRAT AI-engine development. Before joining Cognitive Leap, he was a biostatistics scientist at Fulgent Genetics. Aaron received his B.S. in Math from UC Berkeley and his M.S. in Bioinformatics from Columbia University.



Dr. Byron Shen received his PhD from UC Berkeley and MBA from University of Minnesota. He has worked extensively in the diagnostics/life sciences, pharma/biotech, and medical device industries, across Fortune 100, medium/small-sized companies, and startup company. He considers himself a hybrid of hybrid with a unique DNA of scientific, clinical, and business expertise. Dr. Shen’s current focus is to help develop enabling biomarker solutions for oncology applications, especially in utilizing ultrasensitive biomarker detection tools for liquid biopsy to improve cancer diagnostics, treatment and outcome monitoring during cancer treatment. Dr. Shen previously helped Data Sciences Internal (now part of Harvard Biosciences) to set up a WOFE in Zhangjiang Hi-tech Park, built a top-performing team, and grew company’s business rapidly in Asia Pacific (i.e., “intrapreneurship”). He also worked with Chinese FDA to bring the state-of-the-art science and international IHC guidelines to China for preclinical drug safety testing. After returning to the US, Dr. Shen joined a UC Irvine startup, Velox Biosystems, to develop ultrasensitive liquid biopsy technology, whole blood rapid sepsis detection, and a point-of-care UTI diagnostic product. Dr. Shen was also the winner of the 2019 UC Entrepreneur Pitch Competition. At Quanterix, while the company is already a leader in diagnostic testing for neurodegenerative diseases, Dr. Shen is working on another intrapreneurship venture to help build the company’s oncology business.



Xuemei Wei is the Managing Director of Wealth Management at UBS Financial Services Inc, a native Chinese speaker with 18 years of experience in financial services. Xuemei focuses on private wealth management, serving ultra high net worth entrepreneurs, executives and family offices. She provides client centric strategies to help manage clients' financial assets and family legacies. She assists with clients' pre-IPO planning such as trust planning, and post IPO investment management such as managing concentrated stocks, 10b5-1 plan, diversified portfolio management, liquidity management, and philanthropy investments. Xuemei works with successful entrepreneurs and business owners, bringing extensive experience and skills to help maximize the value of their businesses at all stages of growth.



2024 CESASC Annual Convention Evening Program

南加州中華科工學會第 62 屆年會晚宴慶典

6:00 pm – 9:30 pm, May 4th, 2024, Sheraton Cerritos Hotel

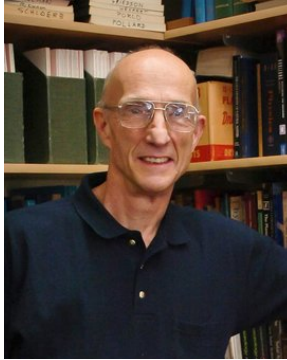
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5:00 pm	Check-in and Social	
6:00 pm	Begin Gala	MCs: Dr. Veronica Y. Guo and Dr. Yue Rong
6:05 pm	CESASC Video	
6:10 pm	Mongolian Dance: The Horizon	<i>Liyuan Dance</i>
6:15 pm	Welcome Remarks by CESASC President	<i>Dr. Jonathan H. Jiang</i>
6:20 pm	Keynote Speech 1: Evolution of Intelligence and Technology	<i>Caltech Professor Andrew Ingersoll</i>
6:55 pm	2024 CESASC Friendship Award Presentation	<i>Dr. Jonathan H. Jiang</i>
	<i>— Dinner will be Served —</i>	
7:00 pm	Soprano: Spring Ballets / Solo: Climb Every Mountain	<i>Ms. Wang, Liyuan Dance / Tenor By Night</i>
7:10 pm	Technical Symposium Summary	<i>Dr. Liping Yan</i>
7:15 pm	Entrepreneurship & Innovation Forum Summary	<i>Dr. Jiachen Zhang</i>
7:20 pm	Keynote Speech 2: Climate Change and California	<i>UCLA Professor Rong Fu</i>
7:45 pm	2024 CESASC Achievement Award Presentation	<i>Dr. Jonathan H. Jiang</i>
7:50 pm	In Memoriam	<i>Brian Kao</i>
8:00 pm	Remarks and Certificate Presentation	<i>The Honorable Fiona Ma, California State Treasurer</i>
8:05 pm	2024 Student Awards Presentations	
	CESASC Scholarship	<i>The Honorable Fiona Ma</i>
	Lisa Lu Scholarship	<i>Dr. Jinxing Li</i>
	Jonathan H. Jiang Prize for Fundamental Science	<i>Dr. Jonathan H. Jiang</i>
	CESASC STEAM Essay Contest	<i>Dr. Ying Zhan</i>
8:25 pm	Imagining the Future of Educational Technology	<i>Dr. Steven J. Gold</i>
8:30 pm	2024/25 CESASC Board Installation	<i>The Honorable Congresswoman Dr. Judy Chu</i>
8:35 pm	Certificate Presentation to Outgoing Board Members	<i>Mr. Chenxi Guo</i>
8:40 pm	2024/25 CESASC President Acceptance Speech	<i>Dr. Ying Zhan</i>
8:45 pm	Duet: Reed Catkins	<i>Mr. Xu and Ms. Wang</i>
8:55 pm	Closing Remarks	<i>Dr. Jonathan H. Jiang</i>
9:00 pm	Music, Karaoke, and Dancing	

Floor Managers: *Dr. Liping Yan, Dr. Kenny Wang, Ms. Sara Liu, plus volunteers*



2024 CESASC Friendship Award Recipient and Keynote Speaker



**Dr. Andrew P. Ingersoll, Professor of Planetary Sciences, Emeritus,
California Institute of Technology**

Professor Ingersoll embodies the epitome of excellence and honor in the realm of planetary science. Throughout his career, Professor Ingersoll has been a beacon of innovation and leadership, profoundly advancing our understanding of planetary atmospheres and climate dynamics. His seminal work on the runaway greenhouse effect has not only shaped academic discourse but also illuminated pathways for groundbreaking research across the globe.

He was elected Fellow of the American Academy of Arts and Sciences in 1997. His pioneering spirit and relentless pursuit of knowledge led him to be awarded the Gerard P. Kuiper Prize in 2007, a testament to his outstanding lifetime achievement in planetary science.

During his tenure as the Earle C. Anthony Professor of Planetary Science at Caltech from 2003 to 2011, Professor Ingersoll's visionary research encompassed critical studies on the runaway greenhouse effect on Venus, atmospheric physics on giant planets, and Earth's own climatic systems. His leadership has been instrumental in unraveling the complexities of planetary weather and climate, particularly focusing on the giant planets and our home planet, marking nearly five decades of unparalleled contributions to the field.

Professor Ingersoll's expertise and insights have been crucial to the success of numerous NASA/JPL missions, including Pioneer Venus, Pioneer Saturn, Voyager, Mars Global Surveyor, Galileo, and Cassini. His involvement in these missions has not only propelled our scientific capabilities forward but also inspired a generation of researchers and space enthusiasts alike.

His profound impact on planetary science has been shared with a wider audience through his participation in the Science Channel documentary "The Planets," and as the author of the influential book "Planetary Climates." This outreach reflects his commitment to disseminating knowledge and fostering a deeper public appreciation for science.

Among his myriad accolades, Professor Ingersoll has been honored with the NASA Exceptional Scientific Achievement Medal in 1981 for his invaluable contributions to the Voyager program. In 2020, he was elected a Legacy Fellow of the American Astronomical Society, further solidifying his legacy as a pillar of the astronomical community and a steward of scientific advancement.

Professor Ingersoll stands as a paragon of honor, dedication, and scholarly excellence in planetary science. His enduring legacy and continued impact on the field will inspire future generations of scientists to explore the unknown, pursue truth, and cherish the beauty of discovery.



2024 CESASC Achievement Award Recipient and Keynote Speaker



Dr. Rong Fu, Professor, Department of Atmospheric and Oceanic Sciences, University of California, Los Angeles

Professor Rong Fu stands as a distinguished figure in the interdisciplinary realms of climatology, meteorology, and environmental science. Her journey from a dedicated student in China, where she was encouraged to pursue education and a subsequent career, to a luminary academic at the University of California, Los Angeles (UCLA), is a testament to her unwavering commitment to advancing our understanding of Earth's atmospheric phenomena. With a foundation in meteorology from Peking University and further honed expertise at Columbia University, where she earned her Ph.D. in atmospheric sciences, Professor Fu has published more than 100 scholarly articles and book chapters.

At the heart of Professor Fu's work is investigation of dynamic interactions between convection patterns, cloud formation, precipitation processes, and their overarching impact on climate change. Her research delves into the intricate atmospheric transport mechanisms in the upper troposphere and lower stratosphere, the interplay between the atmosphere and oceanic as well as terrestrial ecosystems, and the pioneering use of satellite remote sensing for climate studies. Also noteworthy is her exploration of the Amazon rainforest's rainfall patterns, which underscores the vital role of this biome in global climate regulation.

Currently, Professor Fu also serves as the Director of UCLA's Joint Institute for Regional Earth System Science and Engineering. Her contributions have been pivotal in designing predictive models for climatic phenomena, notably in crafting a drought prediction system for Texas, which reflects her capacity to translate scientific insights into practical, policy-relevant solutions. Her leadership roles also including served as the president of the American Geophysical Union's Global Environmental Change section.

A revered speaker, Professor Fu has shared her expertise globally, delivering over 100 presentations and keynotes at prestigious institutions and conferences worldwide. Her peer recognition is evidenced by numerous awards, including the NSF Career Award, the NASA Mission to Planet Earth New Investigator Award, and recognition from the American Meteorological Society, affirming her profound impact on atmospheric and climate sciences. She was elected Fellow of the National Academy of Engineering in February 2024.

Professor Rong Fu's illustrious career, marked by academic excellence, innovative research, and dedicated service to the global community, establishes her as a beacon of knowledge and inspiration in the quest to understand and address the pressing climate challenges facing our planet. Her work not only advances scientific frontiers but also nurtures the next generation of scientists dedicated to the stewardship of Earth's climate systems.



2024 Convention Gala Master of Ceremonies



event coordinator positions in Chinese and U.S. multinational companies, specializing in intercultural business communication.

Dr. Veronica Y. Guo is an Associate Professor of Clinical Business Communication at University of Southern California's Marshall School of Business. Her research focuses on organizational and intercultural communication in business. She is particularly interested and specialized in identity development and strategic negotiation in various international organizational contexts. Her research has appeared on top-tier journals that examined topics such as organizational culture, conflict management, emotion management, communication technology use in business (e.g., AI technologies, social media, mobile), and leadership communication. Her pedagogical expertise in academia includes organizational communication, communication strategies in business, leadership, business and professional communications, communication in non-western culture, and persuasion. Prior to academia, Dr. Guo held program and



Dr. Yue Rong earned his Ph.D. in Environmental Health Sciences from the University of California at Los Angeles (UCLA), and received his B.S. from Beijing Normal University.

Dr. Yue Rong (aka, YR) is currently the Environmental Program Manager at the California Environmental Protection Agency, Los Angeles Regional Water Quality Control Board for groundwater quality protection. He served as the president of Chinese-American Engineers and Scientists Association of Southern California (CESASC) in 2016.

Dr. Rong was honored for the “2023 Bruin Excellence in Civil Engagement” award by the UCLA Alumni Association. Dr. Rong is an Associate Editor for the peer-reviewed journal of Soil and Sediment Contamination and an Associate Editor for the Journal of Environmental Forensics, and the editor of the technical books entitled “Practical Environmental Statistics and Data Analysis.” (2011) and “Fundamentals of Environmental Site Assessment and Remediation” (2018). To serve local minority community, he also served as the



CESASC Scholarship Foundation

CESASC Scholarships and Special Funds

Mrs. Hsu Hwa Chao Memorial Scholarships

(for humanities or science)

Lois and Henry Chi Scholarships

Prof. Yung-Ho Chien Memorial Scholarships

Mrs. Edna and Dr. Yu-Shan Han Memorial Scholarships

General Shann Tzyy Kao Memorial Scholarships

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Grace Yu Memorial Scholarships

Prof. June Chien Yu-Tsao Yu Memorial Scholarships

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Dr. Sherman Shan Yu Memorial Scholarship Fund

Henry Chi Memorial Scholarship Fund

William (Bill) Chang Memorial Scholarship Fund

Jonathan H. Jiang Prize for Fundamental Science

We thank our 2023-2024 Donors and Supporters!

\$2,500-10,000

Jonathan H. Jiang

Barbara Miyake

USB Wealth Management: Xuemei Wei

Anna and John J. Sie Foundation

“In loving memory of Charles Sie—A great leader in the Chinese American community”

\$100-2,499

Shan & Sanne Lee

Chenxi Guo

Munson Kwok

“In Memory of Dr. Wei H. Kao”

The Foundation funds the CESASC scholarship program in science, engineering, medicine and humanities. Particular emphasis is placed on youth programs within STEAM topics.

CESASC Scholarship Foundation is a federal 501(c)(3) non-profit corporation. We welcome all donations and endowments, which are tax deductible to the extent allowed by law. Please make checks payable to "CESASC Scholarship Foundation." Send to Secretary M. Kwok, 5474 West 76th Street, Los Angeles, CA 90045-3208.



2024 CESASC Scholarship Committee



Jinxing Li, Ph.D.
Assistant researcher in space physics at UCLA. PI of NSF and NASA grants



Jonathan H. Jiang, Ph.D.
Senior Research Scientist and Principal Supervisor at the NASA Jet Propulsion Laboratory, California Institute of Technology.
Member, National Academy of Sciences Committee for Human Exploration of Mars



Ying Zhan, Ph.D.
Professional investor. Senior Registered Enterprise Risk Manager and Senior Risk Appraiser.
President of International Branding App Alliance, Founder CEO of Aproin Inc.



Liping Yan, Ph.D.
Technical Specialist
Los Angeles Department of Water and Power



Chengxin Zhai, Ph.D.
Associate Professor, Division of Emerging Interdisciplinary Areas, The Hong Kong University of Science of Technology



Nancy Huang, M.S.
Jet Propulsion Laboratory
Senior Software Engineer



Yiwei Lu, M.A.
Curator, Writer, and Filmmaker, Los Angeles



Kay Niuyue Zhang, M.A.
Director and Film Producer, Los Angeles



2024 CESASC Scholarship Recipients



Sihe Chen 陳斯赫, PhD Candidate

Planetary Sciences, Caltech

He received his bachelor's degree in mechanical engineering and physics from National University of Singapore. His primary research interests include studying the haze in the atmosphere of Pluto with stellar occultation, the ocean dynamics of Enceladus and the crack vapor dynamics. He also helped the development of an aerosol information retrieval algorithm over the ocean.

CESASC Scholarship



Ying Cui 崔滢, PhD Candidate

Department of Mechanical Engineering, UCLA

She received her bachelor's degree in applied chemistry from South China University of Technology, and received her master's degree in chemical engineering from Zhejiang University. Her primary research interests include thermal interface material for electronic thermal management, wearable thermoelectric device for lower-grade energy harvesting, solar-thermal antiviral coating for infectious disease control, etc.

The Anna and John J. Sie Foundation Scholarship

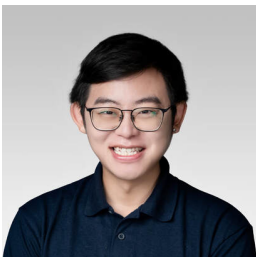


Qingyang Wu, PhD Candidate

Environmental Health Sciences, UCLA

He received his bachelor's degree in economics from Nankai University, and received his master's degree in theoretical economics from Tsinghua University. His research experiences include carbon monitor and global near-real-time ch4 estimation, emerging technologies to tackle climate change, global / climate change economics, identification and response to climate change and health risk, etc.

William (Bill) Chang Scholarship



Ye Mu 穆野, PhD Candidate

Climate Science, UCSB

He received his bachelor's and master's degrees in Geography from San Diego State University. His current research interest focuses on climate in South America especially in the Amazon. He has extensive experiences in moisture recycling, extreme precipitation events, low-level jet and its role on precipitation distribution, etc.

Dr. Jjin-Jen and Mrs. Sage Lee Scholarship

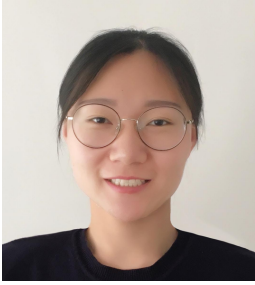


Yifan Gao 高一帆, PhD Candidate

Civil and Environmental Engineering, UCLA

She received her bachelor of science in environmental engineering from Harbin Institute of Technology, and received her M.A. in civil and environmental Engineering from UC Berkeley. She primarily focuses on environmental microbiology and enzymology. During her Ph.D, she has developed biotechnologies for xenobiotic treatment and healthcare problems. She has extensive outreach experiences and is a YouTube creator for [Women in Science Interview Series](#).

Mrs. Edna and Dr. Yu-Shan Han Memorial Scholarship



Xintong Yuan 袁欣彤, PhD Candidate

Chemical Engineering, UCLA

She received her bachelor's degree in chemical engineering and technology from Sichuan University, and received her master's from Tianjin University. Her famous studies include "Ultrafast deposition of faceted Li polyhedra by outpacing SEI formation", published on Nature and highlighted on cover image, and "Ultrathin Pd-Au shells with Controllable Alloying Degree on Pd Nanocubes toward Carbon Dioxide Reduction", published on JACS and highlighted on cover image.

Henry and Lois Chi Scholarship



Erica Yang 楊安庭, Undergraduate Student

Bioengineering, UCSD

She Won the International Society for Pharmacoepidemiology (ISPE) design competition at UCSD. Currently working on bringing my team's design into reality to benefit underserved communities through accessible biogas.

Prof. June Chien Yu-Tsao Yu Memorial Scholarship



Zhenqi (Ryan) Zhou 周珍琦, PhD Candidate

Geographic Information System, University at Buffalo

He received his bachelor's degree of agriculture from Zhejiang A&F University, and received his Master of Engineering from Nanjing Forestry University. His research focuses on GeoAI, Geospatial Data Science, Spatial Analysis, Statistical Analysis, Spatial-Temporal Data Mining, and machine learning applications.

CESASC Scholarship

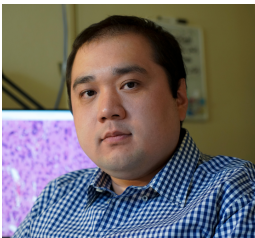


Yuhang Qian 錢禹杭, PhD Candidate

Epidemiology, UCLA

He received his bachelor's in health service administration from Nanjing Medical University, and received his master's degree of health science from Johns Hopkins University. His research interests include HIV, infectious disease epidemiology, quality of care, psychosocial conditions and behaviors among sexual and gender minority communities, causal inference, COVID, statistical modeling and prediction.

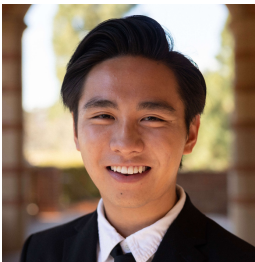
Dr. Sherman Shan Yu Scholarship



Hongyan Gu 谷宏言, PhD Candidate

Electrical and Computer Engineering, UCLA

He received his bachelor's in Control Science and Engineering from Zhejiang University. he designs, builds, and tests human-AI collaboration systems that assist pathologists in histology examination, to enhance examination efficiency, improve diagnosis reliability, and protect doctors from over-reliance on AI. His research focuses on diseases of meningiomas and astrocytomas; both are brain tumors that present complex histopathological features. *CESASC Scholarship*



Jeff Lu, Undergraduate Student

Computer Science & Linguistics, UCLA

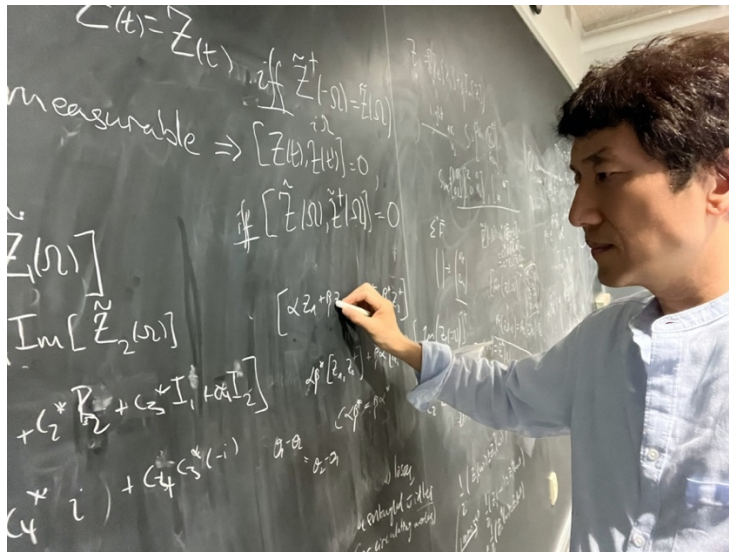
Jeff is a UX designer dedicated to creating visually pleasing products that spark joy. He worked as a front-end engineer at API Forward Movement, UX designer at Daily Bruin and TransCanWork. He interned at DirecTV as a UX designer.

Barbara and Frank Miyake Scholarship



Jonathan H. Jiang Prize for Fundamental Science

Spotlighting Young Talents in Mathematics, Physics, and Chemistry



Endowed by Dr. Jonathan H. Jiang, the CESASC Jonathan H. Jiang Prize for Excellence in Fundamental Sciences stands as a testament to our dedication to nurturing and recognizing the upcoming generation of pioneers in the essential fields of mathematics, physics, and chemistry. This prestigious annual award is distinctive in honoring young scholars whose contributions to basic research show a profound commitment to the advancement of scientific knowledge.

Eligibility and Selection

The Jonathan H. Jiang Prize is conferred upon exceptional young scientists, aged 26 or under, who exhibit remarkable promise in their quest for fundamental scientific breakthroughs. Qualified candidates are those whose published research in mathematics, physics, or chemistry not only demonstrates academic excellence but also reflects a deep commitment to deciphering the universe's mysteries.

A panel of expert members from the CESASC community meticulously selects candidates through a rigorous and comprehensive review process. This ensures the prize recognizes individuals who have achieved academic success and who possess the potential to lead and revolutionize their fields.

Award and Recognition

The recipients of the Jonathan H. Jiang Prize are lauded for their trailblazing contributions to science and their unyielding pursuit of knowledge. Each honoree is celebrated at the CESASC Annual Convention, where they are presented with:

- A monetary award of \$1,500, acknowledging their significant past achievements and supporting their prospective scientific endeavors.
- A Certificate of Excellence, honoring their steadfast commitment to and accomplishments in the realm of fundamental science.

The Jonathan H. Jiang Prize is more than just an award; it serves as an inspiration to young scientists globally, encouraging them to delve into research, make discoveries, and drive innovation. It reflects our conviction in the transformative power of science and the dedication of those expanding its boundaries.

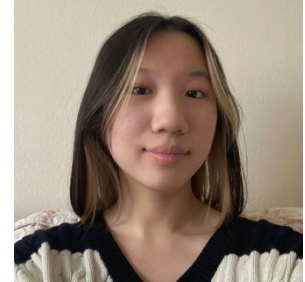


2024 CESASC Jonathan H. Jiang Prize Recipient

Mathematics, Physics, and Chemistry

2024 Physics Prize 物理学奖: Ruixuan E. Chen, 17,
Arcadia High School, Arcadia, CA, USA

For contributing to the study of exoplanets by highlighting the survival of many exoplanets within the habitable zones of early-stage Red Giants, this research offers insights into potential future habitats as the Sun ages.



Paper: Ruixuan E. Chen, et.al., Exoplanets around Red Giants: Distribution and Habitability, *Galaxies*, 11, No. 6, 112, 2023. <https://doi.org/10.3390/galaxies11060112>



This paper, led by seventeen-year-old scientist Ruixuan E. Chen, delves into the critical implications of Red Giant stars for the future of space exploration and potential habitability zones. Chen's study conducts a rigorous analysis of data from NASA's Exoplanet Archive to investigate the prevalence and characteristics of exoplanets orbiting Red Giant and Subgiant stars. The research is particularly focused on identifying those planets that are situated within zones potentially capable of supporting life. The findings reveal a significant number of gas giant exoplanets within these habitable zones, raising the intriguing possibility that moons orbiting these planets could serve as future sanctuaries for humanity.

This paper not only enhances our understanding of exoplanetary environments but also sparks a broader discussion on the long-term prospects for human survival beyond our solar system. Highlighting the potential habitability of moons orbiting gas giants around Red Giants, Chen's work invites us to envision a future where humanity might find new homes in the cosmos. This investigation into distant worlds offers a beacon of hope and a new perspective on the adaptive potential of human civilization in the face of celestial changes.



Lisa Lu Foundation

卢燕基金会



The Lisa Lu Scholarship offers support to students majoring in the arts or literature, with a strong passion for film and technical proficiency. Aimed at those who excel in creative expression and understand film's technical aspects, this scholarship provides financial aid, networking opportunities, and exclusive workshops. Ideal candidates are innovative storytellers eager to contribute to cinema and the arts, embodying Lisa Lu's legacy of blending artistic vision with technical skill.

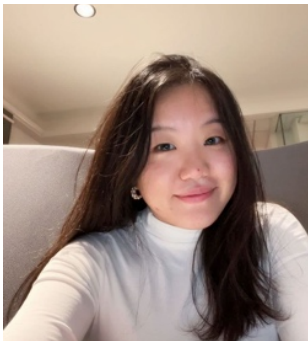


2024 CESASC Lisa Lu Scholarship Recipients

Awardees majoring in Literature and Arts



Tian Jing Teh 鄭田靖, Ph.D. in Modern East Asian literatures, cinema and migratory culture, University of Southern California. He received his B.A. in Chinese Studies from Xiamen University, and received his M.A. in Comparative Literature and World Literature from Beijing Normal University. He specializes in modern East Asian literatures, cinema and migratory culture, and is an award-winning published poet, a digital poetry journal founder and editor-in-chief as well as a final judge for the Flower Trail Literary Award.



Yejia Sun 孫也佳, M.F.A. in theatre, Columbia University. Yejia received her BFA Film and Media Studies from Communication University of China, and received the Diploma in Screenwriting from Beijing Film Academy. She is a dramaturg, filmmaker, and writer. Her dramaturgical works are performed at National Sawdust, Chain Theater, Under St.Marks Theater, and Frederick Loewe Theatre. Her playwriting work was featured in the New Play Festival of Cellunova at Theaterlab. She is now in a Student-Artist-Residency at Movement Lab.



Lenti Liang 梁雯婷, M.F.A in Film & TV Production, University of Southern California. Lenti received her Bachelor of Arts in Visual Arts Media from University of California, San Diego. AS the Director/Producer/Editor/Writer, she has been involved in the production of a number of short films and commercials.



Alex Jiang 姜智佳, M.F.A. in film, Tisch School of the Arts, New York University. Alex completed her BFA Film and Television Production degree at University of Southern California, School of Cinematic Arts. Her passion lies in writing, directing, and producing, and her short films have won multiple international awards. She embraces her identity as a female Asian filmmaker and wish to make her voice seen and heard.



2024 CESASC STEAM Essay Contest

Topic: An Image for Interstellar Messaging

In our effort to compile a comprehensive and authentic portrayal of Earth and its inhabitants, we are inviting individuals from around the globe to contribute to this monumental endeavor by submitting images and photos, as well as an essay explaining the image/photo and why it captures the essence of our planet and humanity. Your submission can play a pivotal role in shaping how we are represented to potential extraterrestrial civilizations and ensuring that the diversity and richness of our world are accurately and meaningfully captured. This contest is open to All K-12 students. We will accept submissions from both individuals and teams, worldwide. The winning essays will be awarded a cash prize up to \$1000 and a CESASC Award Certificate.

Winners for the Awards

The 1st Prize:

Elizabeth Wang

Essay: *A Peek into our Survival Kit*

Isabella Wang

Essay: *The Vast and Diverse Terrains*



The 2nd Prize:

Jessica Yang

Essay: *Worldly Desire*

Chloe Ly

Essay: *Earth*



The 3rd Prize:

Kathryne Hong

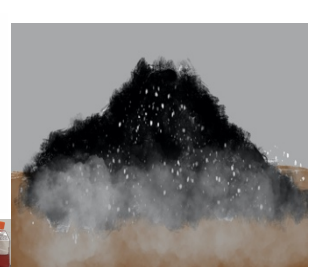
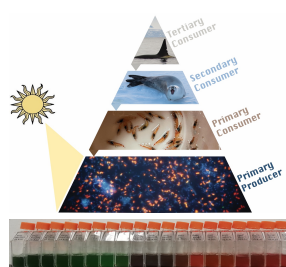
Essay: *An Aquarium*

Lucas Hutchins & Ethan Cheng

Essay: *Biodiversity - Antarctic*

Wilson Ma

Essay: *Gunpowder*



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Envisioning Beyond the Horizon

CESASC-BNUAA Seminar Series

In the seminar series "Envisioning Beyond the Horizon," we gaze into the future, setting our sights 50 years ahead, with the objective of discussing a range of visionary topics. Our aim, through these dialogues, is to provide updates that offer not only an understanding of current trends in science and technology but also a profound insight into the potential developments over the next five decades. Each seminar will feature seasoned experts who possess extensive knowledge in their fields, sharing their research, insights, and forecasts about future possibilities. Join us in this journey to envisage the future collectively, as we seek to uncover the challenges and opportunities that may arise in the coming 50 years.

Envisioning Beyond the Horizon

CESASC-BNUAA 2023-2024 Seminar Series



The Quantum Internet, capable of transmitting quantum information, promises to redefine technological boundaries, empowering unprecedented applications. Central to this vision is the challenge of establishing efficient, large-scale quantum networks. The hurdles of fiber attenuation and reduced communication rates in existing quantum communication methods are being addressed with innovative solutions like quantum repeaters and quantum satellites. This seminar will explore these cutting-edge technologies and their potential to shape the global quantum networks of the future. We will also highlight key research directions and the exciting prospects of quantum internet applications and distributed quantum computing, providing a forward-looking glimpse into the thrilling future of quantum communication and computation.

Quantum Frontiers:

The Dawn of Global Quantum Networks and Computing

Professor Liang Jiang,
University of Chicago

6:00 pm PDT
August 12, 2023







Meeting ID: 762 222 0889
Passcode: STEM-0518

Co-Sponsored by
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Envisioning Beyond the Horizon

CESASC-BNUAA 2023-2024 Seminar Series




Around a hundred years ago, Albert Einstein formulated the general theory of relativity, describing gravity as a curvature in the "fabric of space-time." At about the same time, Niels Bohr proposed a model of atoms that led to quantum mechanics, a theory of microscopic motion that differed dramatically from Newton's laws. In the century that followed, applications of quantum mechanics to atomic and solid-state systems led to marvelous technological innovations like lasers and integrated circuits. Advancements in technology also allowed us to discover new families of sub-atomic particles, many confined to moving within tiny scales. Observations deep into the universe allowed us to uncover its expansion, explain how chemical elements had formed throughout the ages, witness the births of galaxies and the deaths of stars, and detect gravitational waves emitted as black holes collide. Despite such dramatic success, physicists are still puzzled by the nature of some of the basic building materials of the universe, as well as how the theories of quantum mechanics and general relativity should fit with each other.

A Journey through Physics in the Past Hundred Years

Dr. Yanbei Chen
Caltech Prof. of Physics

6:00 pm PDT
September 30, 2023



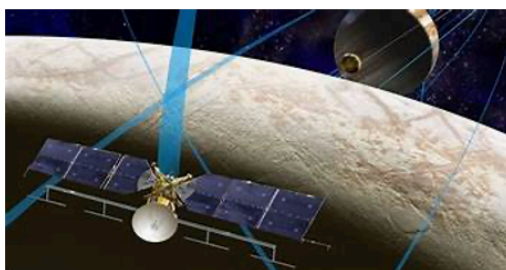




Meeting ID: 762 222 0889
Passcode: STEM-0518

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Envisioning Beyond the Horizon: Journey to Jupiter's Mysteries



Dr. Margaret G. Kivelson,
Distinguished Professor of Space Physics, Emerita; Department of Earth, Planetary, and Space Science, University of California, Los Angeles

2:00 pm PST, February 3, 2024

Abstract: Embark on an epic journey with Distinguished Professor Margaret Galland Kivelson, as she leads us into the heart of cosmic exploration and discovery. In this inspiring seminar, we transcend time and space, from Galileo's historic gaze through his telescope to the groundbreaking Europa Clipper and JUICE missions. These voyages, poised on the frontier of human knowledge, aim to unravel the profound mysteries of Jupiter's icy moons, Europa and Ganymede. Professor Kivelson will illuminate how these celestial bodies, once distant and enigmatic, have become beacons of hope in our quest for understanding the universe. With the imminent launch of Europa Clipper and the JUICE spacecraft cutting through the cosmic expanse, we stand on the brink of potentially uncovering extraterrestrial oceans and life forms, challenging our understanding of life in the cosmos. This seminar is more than a presentation; it's a call to imagine, explore, and dream about our future in the stars, as we seek answers to one of the most enduring questions: What lies beyond the confines of our Earth? Join us for a journey that promises to be as boundless as the universe itself, fueling our passion for discovery and igniting the imagination of generations to come.



CESASC 2023-2024 New Era Talk Series

The CESASC New Era Talks are STEM seminars by high school students, which are an excellent opportunity for young minds to showcase their skills and knowledge in science, technology, engineering, and mathematics. These seminars provide a platform for students to report on their science and engineering work, including their research, experiments, and projects. By participating in STEM seminars, students can share their findings and discoveries with their peers, educators, and the broader community.

CESASC 2023-2024 NEW ERA TALK #1

GLOBAL WARMING AND TIPPING POINTS: Counting Down to Catastrophe

Speaker: **Nicole Ma**

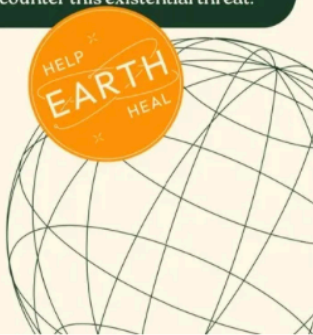
Sage Hill School, Newport Coast
Recipient of the JHJ Prize in Physics



- 2022 Caltech intern
- 1st author of paper published in *Earth and Space Science*

- President of the AEC Foundation - EJGA Club
- Research centered around analyzing the acceleration of global and regional warming and estimating the timing of tipping points in various regions

Our world faces an unprecedented emergency: a climate crisis unfolding with terrifying speed. Tipping points, thresholds that if crossed will trigger irreversible, catastrophic changes to our planet, loom on the horizon. The extreme events that have flooded the news this summer are an early warning sign -- a flicker of what lies on the other side of a tipping point. Global warming stands as the principal catalyst behind the unfolding climate crisis. As global citizens, we must ensure accountability for the main contributors and wield science to counter this existential threat.



New Era Talk 2

Exoplanets Around Red Giants: A New Perspective



Ms. Ruixuan Ellie Chen
Arcadia High School, California

Abstract: Based on an in-depth analysis of NASA's Exoplanet Archive, high school student Ruixuan E. Chen delves into the distribution and characteristics of planets orbiting aging stars, known as Red Giants, in this lecture. She focuses on planets within the Red Giants' habitable zones and the complex relations between planet mass, orbital semi-major axis, and the evolutionary stages of their host stars. Although some planets may be engulfed as Red Giants expand, the research interestingly finds that many exoplanets still exist within habitable zones. Notably, most of these habitable zone planets orbit stars that are in their early evolutionary stages as Red Giants. Chen's research offers a forward-looking perspective for humanity: as our Sun ages and Earth potentially becomes uninhabitable, moons orbiting gas giants like Jupiter or Saturn could become future sanctuaries for humanity.

基于NASA系外行星档案库的深入分析，高中生陈芮萱将在本讲座中探索衰老恒星—红巨星周围的行星分布和特性。她着重研究了红巨星的宜居带内所存在的行星，以及红巨星周围行星质量、轨道半长轴与其宿主星演化阶段之间的复杂关系。随着红巨星的膨胀，尽管一些行星可能被吞噬，但研究发现多颗系外行星仍然存在于红巨星的宜居带内。特别值得关注的是，这些宜居带内的行星大多环绕着处于演化早期阶段的红巨星。陈的研究为人类未来提供了前瞻性的视角：当我们的太阳进入衰老阶段，地球将可能变得不再适宜居住。在这种情况下，环绕像木星或土星这样的外行星运行的卫星可能成为人类未来的避难所。

Biography

How to Join

Date: September 2, 2023
Time: 6:00pm PST, 9:00pm EST

Join Zoom Meeting
<https://us02web.zoom.us/j/7622220889?pwd=ME1UZTFZRmp2MG0vOFBtcU-VuV2kvQT09>

Meeting ID: 762 222 0889
Passcode: STEM-0518



Ruixuan Ellie Chen is currently a senior at Arcadia High School. She has been working with Dr. Jonathan H. Jiang of NASA's Jet Propulsion Laboratory since 2021 on investigating exoplanets around Red Giant Stars.

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舞蹈: **The Spring Ballets 春天的芭蕾 / The Horizon 天边 / 小城雨巷**

单位: **Liyuan Dance Team 丽媛舞蹈团**

演员: **Pauline Jiang , Rose Liu, Dan Shan, Sandy Shan, Lily Li, Weihong Cui, Jane Wang, Fang Huang.**



Pauline Jiang 蒋伊萍



Rose Liu 刘玫



Dan Shan 覃丹



Sandy Shan 覃玉



Lily Li 李莉



Jane Wang 王简



Weihong Cui 崔伟红



Fang Huang 黄芳

女声独唱: **The Spring Ballets 春天的芭蕾**

演员: **Soprano, Bin Wang 王彬**

伴舞: **Liyuan Dance Team 丽媛舞蹈团**

男女声二重唱: **Reed Catkins 芦花**

演员: **Bin Wang 王彬, Xu BaiSheng 徐百生**

男声独唱: **Climb Every Mountain**

演员: **James Chiao 乔欣**



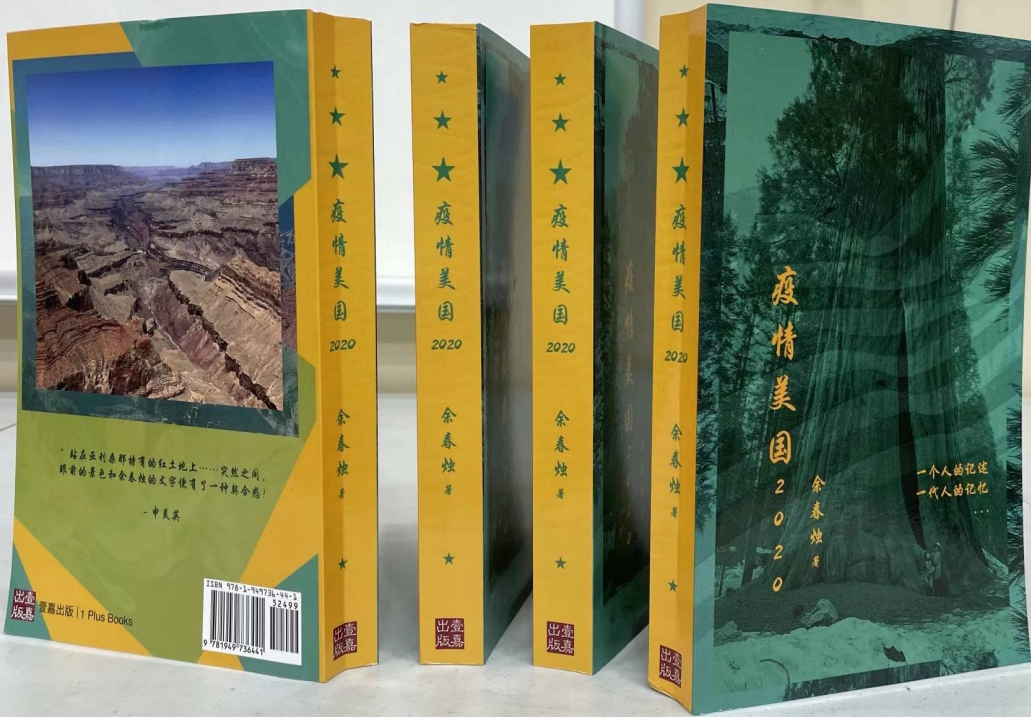
王彬



徐百生



乔欣



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Company profile

Headquartered in Irvine, California, and founded by a successful Silicon Valley serial entrepreneur, Dr. Cliff Ma, MentorX Corporation provides a mission-critical solution for the Generation Z to address the career planning challenges in the 4th industrial revolution era.



MentorX Education Los Angeles Headquarters



MentorX Education Beijing Headquarters

Introduction to the Founder

- Judge on China national talents selection committees and US fund-raising competitions
- Expert in electronic design automation EDA and manufacturing in Silicon Valley
- Held Sr. director positions in engineering, sales and marketing at industry leading companies in Silicon Valley such as SDL, SNPS, MGC, KLAC etc
- Leading pioneer in education technology industry
- Industry advisor for PhD students at University of Washington and Arizona State University
- **Serial Entrepreneur**
- Founded VoiceOn Technology in 2008 and provided an online interactive English-speaking chatbot to 230M Chinese students, sold in 2015
- Cofounded 2 EDA companies in Silicon Valley, both successfully exited



Cliff Ma

– MentorX is dedicated to cultivating and training professionals, offering specialized services aimed at recommending top-tier talent to businesses. Our focus is on guiding university students through their transition into the professional world, emphasizing career planning and the development of essential skills for entry-level positions and internships.
– Our talent pool comprises graduates and students from the nation's top 50 universities, spanning various disciplines such as finance, accounting, computer science, economics, engineering, and business.

MentorX Mentor Professional Specialization Requirements

In accordance with the current demands of international students, we urgently seek professionals in the following fields from renowned enterprises, prestigious universities, and research institutions:

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| 9.Luxury Brand Management | 10.Law | 11.Industrial Design | 12.Mechanical and Materials Engineering |
| 13.Chemical Engineering | 14.Civil Engineering | 15.Marketing | 16. Petroleum Engineering |
| 17. Supply Chain Management | 18.Finance | 19.Art and Design | 20. Environmental Science |

We warmly welcome all mentors to join us and guide the next generation of international

If you are interested in becoming a professional mentor with us, please contact Jennifer:
Jennifer
E-mail: Jennifer@mentorex.net





GRADUATING HIGH SCHOOL SENIOR

2024 University Application Results Announcement Draws to a Close. Junze "Jenny" Zhang, a dedicated student focusing on STEM/Aerospace Engineering and AI, has been awarded the prestigious Edison Scholarship. Alongside, she has received acceptance letters from over a dozen universities: reaching the pinnacles of STEM and technology -- Caltech, two ivy league -- Columbia and Cornell, Harvey Mudd, several UC campuses, Georgia Tech, Michigan, among others. After a decade of diligent study, Jenny extends her gratitude to all her mentors and friends for their invaluable guidance and support. As summer fades into autumn, she resets her journey from zero, ready to embark once more, fortified for the challenges ahead.



2024大学申请开榜录取尾声。专注STEM/航空航天和AI的Jenny张君泽同学收到了爱迪生奖学金 Edison scholarship，同时陆续收到了十几个大学录取通知书：STEM理工界的天花板Caltech加州理工，两个老藤哥伦比亚和康奈尔，Harvey Mudd，UC系列几个学校，佐治亚理工、密歇根等。十年寒窗，一路走来，Jenny感谢所有的良师益友给予的帮助、指导和支持。岁毕秋至日，过往清零时；望征程再起，必砥砺前行。



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In Loving Memory of Past CESASC Presidents

In Loving Memory of 1967 CESASC President - Dr. Theodore Y. Wu (吳耀祖)

March 20, 1924 – December 16, 2023

By Dr. Liping Yan (顏利平), 2013 CESASC President



Professor Theodore Y. Wu assumed the presidency of the Chinese-American Engineers and Scientists Association of Southern California (CESASC) in 1967, marking a pivotal chapter in his longstanding involvement with the organization since its inception in 1962. His tenure as the president of CESASC was characterized by an unwavering dedication to excellence, collaboration, and the advancement of Chinese-American professionals in the fields of engineering and science, not confined solely to Southern California but resonating across broader landscapes. His visionary leadership significantly elevated the profile and influence of our association, laying the cornerstone for the vibrant community it embodies today. In acknowledgment of his exceptional contributions to engineering science and his profound impact on the Chinese-American community, CESASC bestowed upon Professor Wu the esteemed Achievement Award in 1971.

Professor Wu's active engagement in CESASC's initiatives and services left a lasting and transformative impact. Serving as a mentor to many individuals within CESASC, he enriched and shaped their lives immeasurably. My own encounter with Professor Wu dates back to October 1986, shortly after my arrival at Caltech as a graduate student. Over the years, I frequently sought his advices on academic and personal matters. Since our offices were in the same building, we could maintain regular interactions. His humility and kindness were very moving and impressive. His radiant smile and infectious laughter exuded warmth, while his words of wisdom provided solace and encouragement. Beyond being a great scholar, Professor Wu embodied the epitome of a true gentleman. He had been an exemplary role model to me.

His legacy transcends mere academic laurels; it resides in the lives he influenced, the careers he nurtured, and the cohesive Chinese-American community he helped foster. Professor Wu's wholehearted commitment to mentorship and his fervent dedication to bridging cultural and interdisciplinary divides have left an indelible mark on history. Through his profound influence, he contributed significantly to the betterment of our world. His extraordinary life and enduring legacy will continue to inspire countless generations to come.

Professor Wu will be deeply missed by all of us within CESASC.



I got to know Prof. Wu the first day I arrived at Caltech in the fall of 1964 as a new student from Taiwan. He was already well known in Taiwan at that time. I visited his office and introduced myself to him. Prof. Wu kindly told me what to expect while studying at Caltech. Later, through CESASC and Phi Tau Phi Scholastic Society, we regularly met in meetings or dinners several times a year. I was impressed by Prof. Wu's research on how the fish moves in water, learning how nature teaches us the fundamentals of fluid mechanics. That interest led me to study metal fatigue from the micromechanics point of view.

Sincere sympathy and prayers are extended to his family.

S.R. Lin (林勝榮/2000 CESASC President) and Lilien Lin

What a profound loss to hear of Dr. Theodore Yao Tsu Wu's passing!

Since Chih-Ming became an academican of the Academia Sinica in 1998, I've had the privilege of meeting Dr. and Mrs. Wu at the biennial academicians' convocations. Upon joining CESASC, I began to acquaint myself more deeply with Dr. Wu, who served as the CESASC President in 1967.

In 2012, I was appointed as the Convention Chair of CESASC's 50th Anniversary Gala. Despite Dr. Wu's hearing impairment at the time, he patiently contributed an article titled "One Giant Step: 1962-1971" for the 50th Milestone Journal. The article received high commendation from all CESASC members.

Dr. Wu was greatly esteemed in the academic research field, and his sudden passing is deeply mourned. My heartfelt condolences to Fonda and his family. Dr. Wu, may you rest in peace!

Shirley Ho (何張翠姝/2004 CESASC President)

My deepest condolences on the passing of Professor Wu. I first had the privilege of meeting Prof. Wu in 1983 at Caltech, and saw him many times thereafter. He attended CESASC 50th Anniversary Celebration Gala in 2012. Last time we were together at his 90 years birthday symposium in 2014. He will be remembered with his kindness, decency and generosity.

Jason Wen (溫俊山/2011 CESASC President)

I'm very sorry to hear about the passing of Prof. Wu. I got to know his significant CESASC contributions and legacy through working with his son Fonda during my tenure at CESASC.

My sincere sympathy and prayers go to his family. May Prof. Wu rest in peace. He will be missed.

Yutao He (何宇滔/2012 CESASC President)

Prof. Wu was not only a distinguished scholar, a lifetime achievement awardee of Chiao-Tung alumni, a former CESASC President, he was simply a lighthouse to many Chinese-Americans like me. I met Prof. Wu and his wife more than 20 years ago not far away from the time when I came to US for my PhD study in 2001. Later I realized that he and I were not only alumni of the same college but high school as well. We both graduated from Shanghai High and Chiao-Tung University. In my memory, my last person-to-person interaction with him has to trace back to March of 2012. To kick off the celebration of the 70th anniversary of CTUAA-SC (交通大學南加州校友會), I invited Prof. Wu to deliver a speech commemorating his PhD advisor, Dr. Hsue-shen Tsien (錢學森), in Guggenheim Hall at Caltech, since Tsien is the founding President of CTUAA-SC. Thanks to all the achievements by people like Prof. Wu, we, Chinese-Americans should have no doubt for our bright future.

Ping Zhou (周平/2019 CESASC President)



Our hearts are heavy to hear this sad news. Uncle Ted was a great friend to my parents Lois and Henry, and to our family. Our deepest condolences go to the entire CESASC Family.

Joycelyn Chi Fawaz (Daughter of Henry and Lois Chi, Founders of CESASC)

1971 Convention: (l. to r.) Wellington Loh, Van Ho, Ted Wu, T.H.Lin, Jim Gee, Fred Liu, Paul Yeh, Mrs. Au, Lewis Au, Kam Wong.



Dr. Wu (third from left) among Early CESASC Presidents at 1971 Convention



Dr. Wu Giving the Memorial Speech of Dr. Hsue-shen Tsien



Pictures from Dr. Wu's Family



Dr. Wu Working with Colleagues at Caltech



Dr. Wu at CESASC 40th Convention



Dr. Wu at CESASC 40th Convention



Remembrance of Dr. Wei Kao (高為雄)

September 2, 1944 – November 2, 2023

By Dr. and Mrs. Chih-Ming and Shirley Ho (何志明/張翠妹)

CESASC 1988 and 2004 Presidents

為績卓著名揚航太 雄才得展惠我科工

Time flies, it will soon be over six months since Dr. Kao left us! From Chinese school to CESASC, and from acquaintance to jointly organizing technology events, the deep friendship between Wei and us has already surpassed forty years in a flash.

As a distinguished leader in the aerospace industry, Dr. Kao joined the Chinese-American Engineers and Scientists Association of Southern California (CESASC) in mid-1980s. Since then, he has devoted himself to enhancing the Association's youth programs. In order to foster the youth's interest in research and develop their abilities in independent study, Dr. Kao organized the first *Youth Engineering and Science Project Contest* for students in Grades 7-12. Under his guidance, the contest was highly acclaimed by both students and the community.

Since joining CESASC, Dr. Kao has also observed the rapid growth of aerospace and other industries in Southern California. Wei's broad vision and keen observation skills enabled him to quickly stand out in CESASC. Under his outstanding leadership, Dr. Kao chaired the *1987 Technical Conference and Industrial Exhibition*. With over 800 attendees and over 30 companies sponsoring exhibition booths, this Technical Conference held on March 21, 1987, marked a breakthrough and dramatic expansion of the scope and depth of CESASC's technical programs in many aspects. In addition to US speakers, the technical sessions featured speakers from Taiwan, China, and Hong Kong, all holding active high-ranking Science & Technology positions. In 1989, he was elected to President of CESASC. In recognition of his exemplary contributions, Dr. Kao was honored with the *CESASC 1988 Service Award*.

In 2012, which was the 50th Anniversary Gala of CESASC, preparations began two years in advance. In 2009, Dr. Kao, who was serving as the Chairman of the Board at the time, provided special guidance in establishing the Honorary Advisory Committee, several ad hoc committees, and working groups. Sincere thanks to Dr. Kao's foresight, CESASC's 50th Anniversary Celebration was very well planned and further concluded in a thorough and successful manner.

After retiring, Dr. Kao moved to Temple City shortly thereafter. Apart from enjoying the pleasures of life with his grandsons, he continued to serve on the CESASC Advisory Board, drawing upon his rich knowledge for many years.

We would like to express our sincere sympathy to Marina, Brian, and their family for the loss of Wei, a role model for all of us. As a longtime CESASC leader, Dr. Kao will be remembered for his leadership, enthusiasm, and love of family, friends, and community. May his family find comfort in the cherished memories and strength in the companionship of good friends.



CESASC President 1989



Dr. Wei Kao and Dr. Chih-Ming Ho at an aviation industry



Transition of the gavel between the Presidents of 2009 and 2010.



An Interview with a reporter from the World Journal.



At a Christmas meeting with CESASC board members.



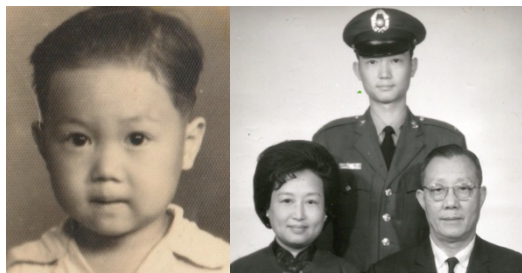
Wei with his son Brian



In Loving Memory of Dr. Wei Hsiung Kao (高為雄)

By Brian Y Kao, son of Wei Kao

In remembrance of my dad Dr. Wei H. Kao, I would like to celebrate the life of my hero. My dad was a remarkable man and lived an amazing life. He strived for a life of excellence, both professionally and personally. Wei H Kao was a natural leader, with a strong moral compass and innate ability to influence. Family and friends remember him for how nurturing and caring he was, but also how he was always young at heart. CESASC was an important outlet for my dad to exhibit these qualities. He was proud to have been your leader, peer, and friend. My family and I are thankful to share this remembrance of my dad with CESASC.



Wei was born on 9/2/1944 in Sichuan, China. His father was a General for the KMT during the Communist Revolution, which resulted in them relocating to Taiwan when he was 5 years old. He attended Taiwan College and also served in the ROC Army. Growing up, Wei was nick named “smiling tiger” by family. This was due to his likeable nature, combined with his drive to achieve. Wei never forgot his roots, as he was extremely proud of

both his Chinese and Taiwanese heritage. His heritage was a big influence in his career interests throughout his career.

After graduating from Taiwan College, Wei moved to the US for graduate studies at Notre Dame and Michigan State. He would meet my mother Marina while attending Michigan State. They would marry in 1973, and together strive to build a better life in the US.



After completing his PHD at Michigan State, he worked at several companies in the mid-west, including Good Year. In 1980 they would move to San Diego, where Wei found a job at General Dynamics. This is also when his first and only son was born, Brian.

In 1981 Wei began working at the Aerospace Corporation in Los Angeles, where he would spend 25+ years. He also moved his family to Rancho Palos Verdes, where he and his family spent over 30+ years enjoying suburban life. As the Director of Material Science at the Aerospace Corporation, he led a sizable team of PHDs, Rocket Scientists, and Technicians. He has numerous patents filed and worked on numerous classified programs for the Government. He also led advanced research programs funded by State and National Agencies (Air Force Space Command,



Navy, Army, DoD and NASA to name a few). Apart from his day job, Wei also found time to be a Professor at Cal State University and President of a semi-conductor startup. In all his roles, Wei always moved up to become a leader, Manager, and/or Director. This was notable given the discrimination that he and other Chinese Engineer's faced during that time. Like many of his fellow immigrant CESASC members, I am proud that my dad made meaningful contributions to society.



My dad had a strong moral compass and sincerely enjoyed helping others. This drove his work as a crime investigation specialist designated by the National Law Enforcement Technology Center for the Department of Justice. His expertise was called upon various times to be an expert witness for high profile criminal cases. His expert testimony helped put away a prominent Intel Executive for murdering his wife. He also helped families get reparations by proving that the infamous Los Angeles Downtown Toy Factory Fire was based on negligence. He's also travelled the world giving lectures. Notably, he gave a keynote speech in Washington D.C. to thousands of FBI, Air Force, and Fireman about his work in material science. He also was the Chairman of the annual Manufacturing Problem Prevention Conference (MP3) sponsored by US Air Force Space Command for over a decade.



Retiring from Aerospace, he took on a role at the UCLA Institute of Technology Advancement in 2007. The role brought him great joy and pride during the twilight of his career. In 2012 he was a founding member of the UCLA Institute for Technology Advancement of the UCLA School of Engineering in Suzhou China. As the Deputy Director, he obtained millions in funding and conducted research. During his time at UCLA, Wei also became a grandpa for the first time in 2009.

Wei's two grandsons, Kyle and Anderson, were born in 2009 and 2011 respectively. This was perhaps his proudest moment, and what brought him the most happiness over the years. He was an amazing grandpa, spending any time he could to enrich their lives with fun, learning, and unconditional love. In 2016 he and Marina moved to Temple City, to be close to his grandsons in Arcadia. He spent his final years striving for excellence, but this time it involved being the best grandpa he could be. My kids love and miss their grandpa so much, and we are glad that we were able to spend some the precious and formidable years with him.



Thank you CESASC for being such an important part of my dad's life. It is an honor for our family to establish the **Wei Kao Scholarship Fund for future STEM students.**



In Loving Memory of 1989 CESASC President - Dr. Wei Kao (高為雄)

September 2, 1945 – November 2, 2023

高为雄老友仙逝，非常疼惜！1987年我们南加州中华科工学会25周年年会中请他担任全日科技研讨会，首次把两岸三地科工界精英请到洛城，盛况空前。记得在洛城威西登大酒店宴会时席开一百桌！Cathy Kuan主持下，两岸领事及科工大员正式出场，加上华裔在美三军中将领多人，开中/美/台三地千人交流之先河，高为雄博士热心筹划，功在史册！

Shui-Lin Chao (趙瑞麟/1986 CESASC President)

Dr. Wei Kao was a visionary leader whose presence among us was a beacon of inspiration, propelling us to new heights and pushing the boundaries of innovation. He possessed a rare gift for seeing beyond the horizon and envisioning futures that others could only dare to imagine. As a mentor, guide, and unwavering source of support, he left an indelible mark on all who had the privilege of walking alongside him. His legacy will endure as we continue to push the boundaries of what is possible, striving to build a brighter future for generations to come.



Jenn-Ming Yang (1987 CESASC SF Board Member)

Dr. Wei Kao at CESASC's first Youth Project Contest

Since 1987, Dr. Wei Kao served CESASC as President, Chairman of Board, and played his outstanding leadership role in many major programs in CESASC history. Wei was one of the initiators helping CESASC launching outreaching program for Pacific Rim countries and started a first mini program for scientific and technical exchanges between the two sides of the Taiwan Strait. It was turned out very successful, even with financial difficulties during world economic recession era.

Wei with 1992 Convention committee, also spared no effort to invite the George Brown, Chairman of the Defense and Weapons System Committee of the US House of Congress, to attend the CESASC Annual Convention. He also worked very hard and quietly to support many CESASC's special projects and made great contribution and consistency, in many other areas, and led the CESASC in fulfilling its historical tasks which was making CESASC highly recognized by the United States and the international community.

After Wei and I both retired, almost last two decades, we always met and chatted each other on the phone, we talked about politics, we shared the health prevention information, hanging out for enjoying good food, shared to watching Chinese classic videos and socialized in continuously to support CESASC activities together over the past decades. Wei was such a gentleman that he always with a sense of humor. He was a loving, caring and dedicated husband, father and grandfather in family. He was always understanding, generous, kind and loyal to his friends.

Wei! May You Rest in Peace. We all miss you.

Edward Liu (劉漢忠/1990 CESASC President)



I am truly saddened to hear about Dr. Wei Kao's passing. I met Wei in the 1980's when I started my involvement in CESASC activities. Wei distinguished himself as a dedicated and capable member of CESASC. Although he was a few years younger than I, his seniority and rich experiences in CESASC activities made him one of my mentors in carrying out my duties as CESASC officers. Wei was an innovative and seasoned research leader at The Aerospace Corporation where I worked. He led a department in the Aerospace Laboratory for many years and had significant contributions in his field of expertise. I am proud of his achievements both at Aerospace and CESASC.

George Chao (趙家鈞/1992 CESASC President)

Dr. Wei Kao's presidency at CESASC demonstrated exceptional leadership marked by visionary strategies and unwavering commitment. His influence was pivotal in establishing elevated standards for technical conferences, fostering innovation, and encouraging collaboration within the community. Serving as a mentor and role model, Dr. Kao generously shared knowledge, guided numerous young engineers and scientists, instilling values of excellence, integrity, and perseverance in the new generation. Many CESASC members and friends have benefited from his wisdom and kindness, and his legacy will remain a lasting source of inspiration. Dr. Kao's absence will be deeply felt, but his spirit will endure in the ongoing pursuit of excellence within CESASC.

Chun-I P. Chen (陳君儀/1995 CESASC Secretary)

悼 高为雄兄:

同岁与君成大人，君学矿冶我机电，
共办科工研讨会，同来洛邑谋发展，
年相等若道相似，君逝亦同我终年，
致哀同悼兄与弟，也共天堂共世间！

John Chen (陳治宏/1996 CESASC Vice President)



Dr. Wei Kao at 1990 CESASC Annual Convention

It was a shock to us to hear of Dr. Kao's unexpected passing. Suellen and I extend our deepest condolences to Marina and the family.

As I reflected upon it, Wei and I had known each other easily more than 40 years. We were colleagues at the Aerospace Corporation in Laboratory Operations, first as acquaintances and then as friends. In the earliest days there were few Chinese Americans in the corporation, and fewer in management. He was head of a department on materials for over two decades, successfully leading a large elite group of scientists with Ph.D.'s and advanced degrees. He was one of the industry's authorities in his specialty areas, and so the corporation deployed him as a leading expert and problem solver, particularly in times of crisis or engineering failure. After retirement, he continued researching at UCLA and other institutions.

Some years ago, a group of us finally convinced him to bring to CESASC his talents and vision and he stayed with us ever since, giving of his volunteer time to serve as President, then three times as Chair, continuing to help guide our organization and shape its current goals and activities. I'll miss him.

Munson and Suellen Kwok (郭民生/1998 CESASC President) and 鄭舒蘭

We are deeply saddened to have lost a dear friend, Dr. Wei Kao.
Wei is truly passionate - 超熱心腸 and 做事義無反顧.



孔老夫子的益者三友，友直，友諒，友多聞。為雄兄兼有之。

Wei is forever in our memory.

Yu-Chong (戴聿昌/1999 CESASC Achievement Award Recipient) and Judy Tai

Dr. Wei Kao has been a wise mentor, a caring friend, a sharp scientist and engineer, a close colleague, and most importantly, he was a true gentleman and had been a long-time faithful CESASC leader and contributor.

It is very hard to accept the fact that Dr. Wei Kao left us and CESASC friends forever. Wei had all traditional Chinese virtues and he was an almost perfect gentleman from west point of view. Wei loved his family so much and was always very proud of them. He cared for his grandkids so much that I still remember that he said that he would like to take them to China and let them learn Chinese, it was a great regret that it would not happen anymore.

Dr. Wei Kao was always very wise and worked diligently. He was my role model while I served as the President of CESASC in 2009, and Wei was the Chairman of the Board. Wei was always very caring, considerate and he was always there ready to offer help instead of taking credits. Dr. Wei has been very talented in many aspects, and had been very energetic.

Wei left us and this world too early and too rushed, but he will be deeply missed by his family, friends, colleagues, and CESASC communities and many more whom he helped and inspired.

Wensheng Zhou (周文生/2009 CESASC President) and 馮文飛

Dr. Wei Kao was a prominent figure and one of our most esteemed members of CESASC. He is a beloved mentor and friend to myself and many within our community. His wisdom, generosity, and unwavering support enriched the lives of all who had the privilege of knowing him.

Dr. Wei Kao is one of the main pillars for CESASC organization and its development. He served as President 35 years ago in 1989, and continued his contribution since, served as Board Chairman THREE times (1991, 1999, and 2009) when CESASC needs his leadership. He exemplified the values of CESASC through his commitment to excellence and his dedication to mentorship. His legacy will be missed and remembered.

Jason Wen (溫俊山/2011 CESASC President)

I got to know Dr. Wei Kao in my early days of involvement with CESASC, and he became my respected mentor and role model who nurtured me greatly and constantly during my presidency in 2012-2013. Dr. Kao is a true gentleman with a kind and caring heart, and was always a source of support and guidance, especially during challenging times. Our friendship transcended my tenure at CESASC, evolving into a lasting friendship that I cherished deeply. Dr. Kao's legacy as a compassionate gentleman and a visionary leader will endure. May Dr. Kao Rest In Peace, his spirit forever remembered and honored.

Yutao He (何宇滔/2012 CESASC President)

I had the pleasure of meeting Dr. Wei Kao shortly after joining CESASC in March 1987. Throughout my tenure as vice president and president of CESASC, Dr. Kao offered me invaluable advice and unwavering encouragement. His readiness to assist or support whenever needed left a lasting impression on me. His warm smile and kind demeanor were truly remarkable. Dr. Kao's dedication to serving our community remains a source of inspiration for me, and he will be dearly missed.

Liping Yan (顏利平/2013 CESASC President)



Dr. Kao was a renowned aerospace leader, and a dedicated educator. He was passionate about his work and touched the lives of many students and colleagues over the years. He was also a kind and caring person, and he will be deeply missed by all who knew him.

Dankai Liu (劉登凱/2014 CESASC President)

Dr. Wei Kao is not only an outstanding scholar and professional, but also a true gentleman. His demeanor reflects in his professional life and impacts other people around him. Dr. Kao has been very generous to me. I was fortunate enough to be invited to UCLA/Suzhou Institute for a visit under his oversight. His support to CESASC will always transmit to all of us in CESASC family. Wish Dr. Wei Kao rest in peace.

Yue Rong (容躍/2015 CESASC President)

Dr. Wei Kao was one of the role models in our CESASC community. He will be fondly remembered.

Dongmei Huang (黃冬梅/2017 CESASC President)

Dr. Wei Kao was a true gentleman, visionary leader and mentor to many of us. His legacy will continue to inspire and guide us in our personal and professional lives.

Hui Su (蘇慧/2018 CESASC President)

My deepest condolences go to Dr. Wei Kao's family. May Dr. Kao rest in peace. While we are mourning the loss of you, others are rejoicing to meet you at the gates of Heaven.

Bruce Liu (劉玉發/2021 CESASC President)

My deepest condolences go to Dr. Wei Kao's family. I had the honor to work with him when preparing for the annual convention in 2023, and it's amazing to see his grandkids, Kyle and Anderson Kao, winning the CESASC STEAM Essay Competition that year. His legacy will carry on with CESASC forever!

Chenxi Guo (郭辰曦/2022 CESASC President)



Dr. Kao at 2023 Lantern Festival CESASC Gathering



Wei's grandkids, Kyle and Anderson Kao won 2023 CESASC STEAM Essay Competition



A Heartfelt Tribute to Mrs. Elizabeth Kay-Im (郭怡珊), 1996 CESASC President

September 12, 1966 – April 3, 2024

By Dr. Yutao He (何宇滔), 2012 CESASC President



In the vast expanse of the cosmos, where stars whisper their timeless tales, there exists a constellation of memories, each a radiant homage to a brilliant mind whose luminance graced our earthly journey.

Elizabeth Kay-Im, fondly known as Liz, peacefully departed this world on April 3, 2024. Her passing left a void that echoed through my heart. She was not only my long-time colleague at JPL but also a role model, a wise mentor, a cherished friend, and a beacon of support in both my professional and personal realms.

Our paths crossed two decades ago, shortly after I joined JPL, forging a lasting bond that extended into the areas of volunteerism, friendship, and shared aspirations.

Liz's 34-year tenure at JPL was nothing short of stellar. Starting as a fresh graduate from college, she climbed up the professional ladder with remarkable pace, progressing from Group Supervisor and Section Manager to ultimately helming JPL's largest division as Manager. Leading over 1100 talented individuals, she blazed a trail as the highest-ranked Chinese American female in JPL's history, shattering the bamboo ceiling with grace, determination, and wisdom. Liz's outstanding leadership, coupled with her magnetic charisma, amazing elegance, warmth, empathy, and unwavering integrity, left an eternal legacy on the fabric of NASA/JPL's space exploration endeavors, inspiring all fortunate enough to cross her path, and earned her the admiration and respect from the broad JPL community. One of my gracious personal accounts at JPL recalls that Liz served as the Strategic Initiative Lead and oversaw a 3-year R&TD project that I led as the Principal Investigator. Her invaluable advice during the entire project span was instrumental in helping me navigate complex challenges of leadership and shape the project's triumphant trajectory.

Beyond her exceptional professional achievements, Liz epitomized a spirit to make the world a better place and was deeply committed to serving the community through volunteering and non-profit organizations. As a pivotal figure at CESASC, she served as the 1996 President and the 1998 Board Chairwoman, making an unfading mark on the organization and its members. Her contributions continued even after her retirement from the CESASC Board, as she remained a steadfast supporter of causes close to her heart. Additionally, she served as the JPL AAC (Asian American Council) Chair, showcasing her dedication to fostering diversity and inclusion in the workplace. She became a lifetime advisor after she stepped down, regularly offering mentorship and monetary support on demand.

In the corridors of friendship, Liz was a treasure beyond measure. Her laughter echoed in our shared moments, her kindness a soothing balm in times of trial, and her wisdom a guiding light through life's complexities. It was her encouragement that motivated me to step up to assume leading roles of the CESASC President in 2012 and the CESASC Board Chairman in 2013, as well as JPL AAC Chair for five years. Her belief in my capabilities and her mentorship throughout my tenure paved the way for my transformative leadership experiences, and her sustained support were a blessing: Out of her hectic schedule she served as an executive panelist at 2014 Annual Conference of LEAP Career Development Forum at my invitation; She helped me organize a 2016 IEEE conference with her impressive organizational prowess and incredible resourcefulness; She was affectionately known as "Aunt Liz" to my elder daughter Angela since her first grade at



Valentine Elementary School in San Marino, where her daughter Alexandra also attended. Liz always inquired about Angela and shared with me the joys and challenges of parenting during our conversations, a habit that persisted as both embarked on their Ph.D. programs.

Liz's deep devotion extended to her family, embodying love, support, and responsibility as a loving wife and caring mother. The personal anecdotes she shared with us, from orchestrating single-handedly her wedding ceremony with Dr. Eastwood Im (the 1994 CESASC President) single-handedly to tackling Eastwood's medical emergency during his business trip in Alaska, illustrated her resilience and compassion, portraying her as a pillar of strength for her family.

Liz's thoughtfulness radiated in every aspect of her life. One of my fondest memories is to receive a custom-designed Christmas postcard containing the Im family picture via surface mail during every Christmas season - a heartwarming tradition that reflected her deep love for those in her life.

The last conversation we had was in December 2023, when she emailed me to commend my tribute in memory of Dr. Wei Kao's (the 1988 and 2004 CESASC President) passing. I replied to wish her best and express my hope to meet with her soon. Regrettably, tears streamed down my face when I received the news of her passing, and even more tears welled up as I read her essay "If This Is It" shared by Eastwood: What beautiful words from a beautiful mind! It's a testament to her gratitude and the profound love she has for those in her life. It reminded me of poignant lines from the Sci-Fi film, "Passengers", which is about what has happened when a starship Avalon is traveling to a colony planet 120 light years away from Earth, resonating with our shared journey: "You can't get so hung up on where you'd rather be that you forget to make the most of where you are. We got lost along the way. But we found each other, and we made a life, a beautiful life, together."

I am deeply honored and fortunate to have trekked alongside Liz as a fellow passenger for two decades. Looking back, we are all reminded of the immense beauty she brought into the world - a beauty that was woven not only through her remarkable accomplishments but also through the countless hearts she touched. Liz continues to be a comforting angel and a guiding star for us all, shining prominently through "the Liz wavelength".

Rest in peace, dear Liz. Your light illuminates the vast cosmos of our collective memories, forever!



Liz with 2 Lifetime Achievement Awardees, Prof. Alice Huang of Caltech, Prof. Andrew Lo of MIT, and other Award Committee members at the 2013 CESASC Annual Convention.



Liz with other distinguished speakers at the LEAP 3.0 Annual Conference at USC in 2014 as an invited executive panelist.



If This Is It

By Elizabeth Kay-Im

Inspired by Jack Thomas, a Journalist for the Boston Globe "I just learned I only have months to live. This is what I want to say" (Jack was 83)

I have never been a good writer. It's not like I don't want to be one, just lack of confidence and afraid of criticism. But I have nothing to lose now.

It has been a year (the night of Halloween in 2021) when I got the news which turned my almost perfect life upside down. I went through the phases of grief and went forward like a brave soldier to the war. Chemo sessions were not easy, but I made it manageable because I was hoping that I would be the one beating the odds. Then came those "chemo vacations" which were supposed to be wonderful and free. I just didn't feel that way. But I'm still grateful that I was able to do a lot more during the 6-month break, spending more memorable time with Eastwood and the kids, carrying on work with colleagues and playing with Kuro... just some normalcy like before.



I have always been strong mentally that I believe I can overcome any physical discomfort. But now, my body is slowly deteriorating. It is very scary to feel that I don't have the control anymore and I have been left behind. Ever since I have become ill, I've had many random thoughts. I'm quite aware, tomorrow is not guaranteed, for anyone. If I get to pick, would I prefer knowing when and how or not knowing and just gone in a split second? No doubt, I would choose more time with my loved ones, more time to see the sun, more time to work, and more time to appreciate what I might have missed or took for granted before, even I must go through some pain and suffering at the end. I have no shame to seek for mental wellness support during this journey. This disease can take over my body, but I refuse to let it control my mind. I really hope that I will still look ok when I'm done. I wish the image and memory of me stayed as if I didn't get sick.



It's easy for people to say, "stay positive," "don't think too much," or "be strong." Believe me, I have tried very hard every day. Knowing my time is limited, I still hold my tears back and have the courage to get up every morning trying to accomplish something, to live the moment, to love and to be loved. However, there are still times I have felt so weak and wondered...

Will this be the last time I feel Eastwood's sweet kiss?

Will this be the last time I see Ally's beautiful smile?

Will this be the last time I hear Aaron's kind voice and listen to his Podcast?

Will this be the last time I feel the sun through the tree leaves in my backyard?

Will this be the last image I will see from Mars?

Will this be the last trip I take to the beach, to Chicago, to Seattle?

Will this be the last nightly walk with Eastwood and looking at the moon and the stars?

Will this be the last gathering with friends?



Will this be the last inspiring message, beautiful photo of flowers, ocean and sunset, and funny jokes sent by friends and colleagues?

Will I make it to see another birthday, Thanksgiving, or Christmas?

Will I make it to watch the Jeopardy Tournament of Championships 2022? I wonder who will take the trophy home? Amy, Matt, or Mattea (Amy, Andrew, or Sam)?

As my life nears the finish line, the list of things I'll miss grows.

I'll miss Eastwood's forever love.

I'll miss being the mother of my 2 babies (they will always be my babies).

I'll miss the fragrance of my favorite perfume.

I'll miss the delicious and make me feel good food (not from the expensive dining; I appreciate the simple homy meals).

I'll miss playing Mahjong on the phone with Eastwood trying to beat the score little by little.

I'll miss playing piano, enjoying classical music, and pretending I was the one playing so perfectly.

I'll miss listening to the songs on Eastwood's and kids' playlists.

I'll miss the conversations with friends and colleagues.

I'll miss the crisis, chaos, and excitement working at JPL.



I have been a planner; always 3 steps ahead. Now, it is no longer necessary, but I still wonder...



How will JPL be like the day we get the Mars samples returned to Earth in 2030?

What will the moment be like when Ally receives her PhD degree?

What will the day be like when Aaron gets married?

Will Kuro (my beloved dog) miss my "brush, brush, brush" before her bedtime?

Will Eastwood and the kids take good care of my pig figurine and nutcracker collections?

Will all the trees and flowers continue to grow beautifully in the garden?

I was raised as a Christian but have not been a regular church goer. I do believe in God. He is the One gave me strength throughout my life, while I put others first instead of myself. That was how I powered through Mom and Dad's health scares and Eastwood's life-threatening incident 10 years ago... and many more. I hope He will take me in and give me a pair of beautiful wings (assuming I will be no longer Ornithophobic) and I want to believe there is an afterlife...

I wonder if both of my grandmothers will be there waiting for me so I can tell them what they have missed the last 20 years.

I wonder if the Golden Girls will be there carrying on conversations and laughter. I hope they will let me join in.

I wonder if Alex Trebek will be there hosting the heaven version of Jeopardy. I hope I can get more questions right.

I wonder my childhood dog, Takio will be there waiting for me to play fetch with him.





I wonder if there will be a lot of fresh sushi, abalones, variety of chocolates, and Taiwanese street food for me to enjoy without worrying about gaining weight.

But most importantly, I hope there will be a special wavelength for me to connect to whom I have left behind so they know how much I love and miss them every day.

I really don't like when people say "moving on" or "letting it go" when talking about coping with loss. I feel like it's encouraging people to be forgotten and eventually to be replaced. I prefer continuing life with me in your hearts- "what would Liz think, say or do if she was here?"

Although I still try to comprehend why my journey is much shorter than others, I still feel very fortunate to have a pretty good life after all. My childhood was fun, adventurous; seeing the world and meeting so many people. My career with Caltech/JPL, the only company I've ever worked for where I have the privilege to be part of the world class space exploration program. And all of the friends and family members- so many memorable gatherings, events, vacations... I'm just so lucky! Most of all, the opportunity to be a mother of the two most beautiful children in the world and a wife and lifelong partner to my dear Eastwood. But...

I just wish I could stay a little longer.



In Loving Memory of Elizabeth Kay-Im (郭怡珊)

September 12, 1966 – April 3, 2024

By Dr. Chih-Ming & Shirley Ho (何志明&張翠姝), 1988/2004 CESASC President

怡恩長存澤廣被 珊容宛在念巾幗

We share in the sadness and shock caused by the untimely passing of Elizabeth Kay-Im at a young age.

Liz was a rising star in CESASC. She served as President in 1996 and as Board Chair in 1998. She was known for her sharpness and decisiveness, which earned her much praise.

Liz and Munson Kwok have served as Co-Masters of Ceremonies for many years, and their hosting skills have always been highly commended.

In 2004, Shirley was named the President of CESASC, and she truly appreciated Liz's enthusiastic support. Since taking office, Shirley has launched eight silent auctions, and the "Triple Wine Ensemble" donated by Liz and Eastwood for several consecutive years has always been the most popular auction item.

The preparations for "CESASC 50," held on April 22, 2012, began in 2010, and Liz's designs for the invitation and the milestone journal cover were very well received as well.

We extend our deepest condolences to Eastwood and his family as they mourn the passing of Liz who served as an inspiration to us all. May his family draw solace from treasured memories and support from close companions during this difficult time.



Liz with the CESASC Silent Auction Team at the 2010 Convention



Liz at 2012 Torrance Memorial Holiday Fashion Show with Suellen and Shirley



Liz and Eastwood were the 1992 CESASC convention co-chairs when I was president. The two wonderful young people, regarded as CESASC's 金童玉女, were deeply in love then, and their joint effort made the evening convention banquet one of the best with attendance well over 500! Soon after that, we celebrated their wedding.

Liz was a bright, capable, and beautiful woman with a distinguished career. She started as an engineer at JPL and moved up to the position of the manager of the largest division at JPL with more than 1000 employees! It must take a lot of hard work, vision, and strong leadership for a Chinese woman (double minority) to achieve such a high position. I believe Liz was the first Chinese to hold such an important position in JPL history, except Dr. H S. Chien who was one of the founders of JPL. We all should be proud of her great achievement!

George Chao (趙家鈞/1992 CESASC President)

We were deeply saddened to hear the sad news that Liz has left us. She was brilliant, beautiful, successful in everything she did in her life. A good wife and a good mother at home, and a high achiever and well respected at work. She will be forever missed.

Kung Yao (姚琨/1995 CESASC President) and Mary Yao

We are so sorry to hear this terrible news! Elizabeth was beautiful and talented. We will miss her forever!

Tientsai Yang (楊添才/1997 CESASC President) and Jane Yang

We share the pain of the loss. We lost a shining and precious jewel in the sea of 8 billion people. She will always live in our hearts.

Shan Lee (李珊/2005 CESASC President, CESASC Scholarship Foundation Chairman)

It is such a shock and saddened news that we have lost one of CESASC's long time leader and friend. In my memory, Liz was a beautiful and elegant lady and a very successful professional at JPL. I remember that I first met Liz in 2004 when I helped at this year's convention, she had been always very caring for people around her but quietly (潤物細無聲).

Liz's essay is very moving, touching and inspiring too. Life is not only measured by length but also by depth. Liz had lived her life in full capacity and had influenced people around her so much. We will always miss her.

Wensheng Zhou (周文生/2009 CESASC President)

Although Liz left this world so young, she will be deeply remembered for her bountiful and beautiful life with her leadership, dedication, and friendship.

Jason Wen (溫俊山/2011 CESASC President)

I was deeply saddened to hear about Liz's passing. I had the privilege of working alongside her at CESASC, and I was continually struck by her compassion for our community and her unwavering kindness towards others. Liz's presence will be sorely missed, and her spirit will undoubtedly live on, continuing to inspire us all.

Liping Yan (顏利平/2013 CESASC President)



I miss Liz.

I am writing to express my deep sadness at the loss of Liz. Her passing has left my daughter Gloria and me feeling heartbroken and unable to focus on anything else this morning.

Liz was a guiding light in my life. Thanks to her, I became part of the CESASC community, which brought me much joy and valuable connections. Her kindness and generosity extended beyond our shared organizations, and she played a pivotal role in my daughter's career by offering guidance during her internship at JPL.

Liz had a welcoming spirit and an ability to unite people, qualities I always admired. Even though I was not part of the team during the MSL (Mars Science Lab) landing, she made me feel included, which meant the world to me. Her invitation to serve as a board member of CESASC was an honor and I will always be grateful for the opportunities she provided.

The news of her passing on Wednesday was a devastating shock, and I will always cherish her memory.

Dankai Liu (劉登凱/2014 CESASC President)

My condolences go to the Im family. Hope you feel the condolences from the CESASC family as well.

Liz and Shirley helped me in silent auction that year when we had our annual meeting at UCLA (2016). I always remember that. Wish Liz rest in peace.

Yue Rong (容躍/2015 CESASC President)

Liz's letter is really touching. Her "Will this be the last time", "I'll miss", and "I wonder"s brought me to tears. My deepest condolences to the Im family. You will be in our thoughts and prayers.

Lan Saadatnejadi (茹蘭/2016 CESASC President)

I am so sorry to hear about the loss of Liz. She was a beautiful lady, a strong leader, and a thoughtful mentor. She was my role model at JPL. Her kindness, intelligence, and grace will always be remembered by those who had the privilege of knowing her. My husband Chengxing Zhai was in her Section/Division. He said Liz was extremely considerate and helped him advance his career in many ways.

I cannot imagine the pain and sadness that you must be feeling right now. Losing someone so special is never easy, and I want you to know that you are not alone in this difficult time. Please know that our thoughts and prayers are with you and your family.

I hope that you can take comfort in the memories you shared with Liz. She will always be remembered for the beautiful person she was and the positive impact she had on so many lives.

Hui Su (蘇慧/2018 CESASC President)

Liz's essay was beautiful and powerful. I wish I had a chance to work with Liz and know more about her. Reading her essay with tears in my eyes, I feel like she is a close friend talking to me. Liz is entering eternal life now and will live in our heart forever. Hope the fond memories will comfort the Im family. My thoughts and prayers are with you. Take care!

Dongmei Huang (黃冬梅/2017 CESASC President)



Liz's essay was so beautiful, touching, and powerful. I hope the cherished memories bring comfort to the Im family during this time. We are forever thankful for her generosity and kindness. My thoughts and prayers are with you.

Charley Lu (盧春雨/2020 CESASC President)

I never got the privilege to meet Elizabeth myself, but her letter touched me so much. She was so brave and powerful, and at the same time so gentle and considerate in there. Tears filled my eyes as I read it. I felt a part of me was healed when reading this letter, and I feel that Elizabeth is continuing to impact people around her, though we never got the chance to meet her, and her legacy will go on forever.

Chenxi Guo (郭辰曦/2022 CESASC President)

As I sit to write to you, my heart is heavy with sorrow, yet also brimming with gratitude for having known Liz—your beloved wife, our cherished former CESASC President, and a luminous presence in the lives of all she touched. In these moments of profound loss, we seek solace and find a glimmer of it in Liz's own reflections from her essay, "If This is It," which resonate with deep love and poignant longing.

I read the essay many times this morning, with tears in my eyes. Liz wrote with such heartfelt sincerity, "As my life nears the finish line, the list of things I'll miss grows; I'll miss Eastwood's forever love; I'll miss being the mother of my 2 babies; I'll miss the conversations with friends and colleagues, the crisis, chaos, and excitement working at JPL... I just wish I could stay a little longer." These words, so vulnerably and so beautifully shared, touch the core of our being, reminding us of the fragility and preciousness of life and the deep bonds that tie us to those we love.

Her legacy transcends the remarkable milestones she achieved professionally and the leadership she exemplified within CESASC. It is found in the gentle echoes of her laughter, the warmth of her presence, the wisdom in her words, and in the enduring love she had for her family and friends. Liz's spirit—a beacon of strength, love, and unwavering dedication—leaves an indelible imprint on our hearts and lives.

As we gather in spirit and solidarity to mourn Liz's passing, we also celebrate the extraordinary life she lived, the people she loved, and the countless lives she enriched. The CESASC community stands with you, your children, and all who mourn Liz's departure from this world. Please know you are not alone; we are here to envelop you with support and compassion during this incredibly difficult time.

With heartfelt condolences and a shared sense of loss,

Jonathan H. Jiang (蔣紅濤/2023 CESASC President)

I was deeply saddened to hear about Liz's passing. But knowing that she can leave peacefully is also a kind of happiness. I believe in the cycle of life, and I believe she can embark on a new and beautiful life.

Ying Zhan (战颖/2023 CESASC Vice President)

Reflecting on the Life and Legacy of Mrs. Elizabeth Kay-Im

April 19, 2024

As we gather to remember Mrs. Elizabeth Kay-Im, affectionately known as Liz, we find ourselves enveloped in a deep sense of gratitude. It is with a privileged heart that I, as both her friend at CESASC and her colleague at JPL, have the honor to reflect on a life vibrantly lived, a spirit profoundly impactful, and a legacy that will eternally resonate in our memories.

Liz was far more than a past president of CESASC and a dedicated manager at JPL. She was a mentor, a pioneer, and, above all, a cherished friend whose influence extended well beyond the confines of her professional titles. Her leadership was defined not only by our successes but also by her unwavering compassion, integrity, and relentless drive to inspire and uplift everyone she encountered.

In her poignant essay, "If This is It," Liz articulated the essence of her being—her yearning for more cherished moments with loved ones, her delight in the splendor of nature, and her spirited engagement at JPL. These reflections paint a picture of a life brimming with love, beauty, and meaningful connections.

As we reflect on her extraordinary journey today, let us cherish the echoes of her laughter, the wisdom she imparted, and the formidable strength of her love—qualities she generously shared with us all. Liz's enduring legacy lies not only in her professional achievements and the challenges she gracefully overcame but in the everyday demonstrations of personal strength and kindness.

To Eastwood, her children, and all of us gathered here: Liz taught us that a life replete with love and caring connections is a life of profound purpose. This lesson, a gift from Liz, is something we carry forward in her honor.

Thank you, Liz, for every moment, every lesson, and every memory. Rest peacefully, dear friend, secure in the knowledge that your life was immensely meaningful and deeply cherished.

We are all better for having known her. Thank you, everyone, for joining us today to pay tribute to such a remarkable woman.

— Jonathan H. Jiang 蔣紅濤, CESASC President



CESASC Lifetime Members

Arlen, Michael	Chien, Raymond	Im, Elizabeth Kay	Long, Jill	Wang, Senlin
Bussel, Barak	Chin, Lester P.	Kao, Wei H.	Lou, Elizabeth	Wang, T. J.
Cao, Xiwu	Chu, Judy	Ko, Denny	Lou, Michael C.	Wen, Jason
Chan, Leo K. P.	Dai, Peter K.	Kwan, Catherine	Mak, Danton K.	Wong, Jimmy
Chan, oleven	Deng, Jun	Lan, Sikun	Mar, Nelson T.	Woo, Chai Wei
Chan, Thomas K.	Ding, Tony Y.	Lee, Alfred	Miao, David	Woo, Jer Kury
Chang, David D.	Fan, Jerry	Lee, Hugh	Qiu, James (Zhiyong)	Wu, C. H. Timothy
Chang, Milton	Gao, Youping	Lee, Hui-An	Rong, Yue	Wu, Marven Pan
Chang, Ning- Wu	He, Yutao	Lee, Jin-Jen	Saadatnejadi, Lan	Wu, Tim
Chang, William	Ho, Chih-Ming	Lee, Shan	So, Yiuman	Yan, Liping
Chao, George	Ho, Dean	Leung, Paul	Su, Hui	Yang, Tien Tsai
Chao, Pong	Ho, Shirley	Lim, Wah L.	Sun, Chieh	Yang, Wanwan
Chao, Shu-Kong	Hsiai, Tzung	Lin, Jimmy H.	Sun, George	Yang, Yang
Chen, Cheyang	Hsieh, Albert	Lin, Nancy	Szeto, Manwai	Yao, Kung
Chen, Donna	Hsu, Albert	Lin, Sheng-Rong	Tan, Hongjin	Yee, Henry
Chen, Jia Ming	Hsu, Alex	Lin, Trye-Lin	Tang, Yupai L.	Yen, Charles C.S.
Chen, Joseph	Hsu, Hui Pin	Lin, Tung-Po	Teng, Albert R. H.	Yeung, Derek
Chen, Peter W.	Huang, Alice	Liu, Bruce (Yufa)	Teng, Evelyn	Yin, Mingsong
Chen, Philip	Huang, Dongmei	Liu, Dankai	Teng, Ta-Liang	Yu, Pete
Chen, Shiuan	Huang, George Y.	Liu, Helen	Tsai, Mark F.	Yu, Sherman
Chen, Wendy H.D.	Huang, John	Liu, Edward	Tsai, Pin Fun	Yung, Yuk Ling
Chen, Y. Kenneth	Huang, Sheng-He	Liu, Paul I.	Tsiang, T. H.	Zhai, Endi
Chi, Henry W.S.	Hui, Angela	Liu, Robert W.	Tso, Jin (Sharon)	Zhan, Ying
Chi, Lois Wong	Hwang, Li-San	Liu, Wai-Min	Wang, Cun-Yu	Zhang, Peter
Chiang, Albert C.L.	Jiang, Jonathan H.	Lo, Andrew	Wang, Li-Jean	Zhang, Yitang
Chiang, Martin	Im, Eastwood	Loh, W.H.T.		Zhu, Raymong
				Zhu, Konrad S.



Chinese-American Engineers and Scientists Association of Southern California 南加州中華科工學會 (CESASC) www.cesasc.org

History and Mission

The Chinese-American Engineers and Scientists Association of Southern California (CESASC) was founded in 1962 as a non-profit professional organization. Its mission is to serve as a platform to enrich members' competence through technical conferences and workshops, to showcase their accomplishments through its annual Achievement Awards, to broaden their career perspectives through global and local networking, and to protect their interests and rights through organizational efforts. In 2011, CESASC was honored by Chinese American Museum (CAM) as the recipient of the *Excellence in Science and Engineering Leadership Award* in CAM's 15th Annual History maker's Awards Ceremony. In 2019, CESASC was recognized as the recipient of the *2019 Community Partner of the Year* by Chinese-American Elected Officials (CEO).

CESASC Achievement Awards

Since 1969, CESASC has been presenting Achievement Awards to recognize individuals who have made significant contributions in engineering and science or have a distinguished professional career. Our previous award recipients included Nobel Laureates, members of US National Academy of Sciences, National Academy of Engineering and Institute of Medicine, Corporate and university executives, members of Committee 100, and public officials.

Technical Symposiums

To promote technology advancement for its members, CESASC has sponsored annual Technical Symposiums pertaining to various technical areas since 1986. These conferences have provided a forum for top researchers around the world to exchange ideas and findings about the latest advancements in science and technology. In 2010, CESASC co-sponsored with UCLA an International Symposium on Materials for Enabling Nanodevices (ISMEN). In 2016, CESASC collaborated with UCLA Sustainable LA Grand Challenge to serve the Los Angeles community.

Programs (Scholarship, STEM, LEAP, Business Innovation Competition, Arts-Tech Poster Contest)

The enrichment of youth program has been one of our important goals for many years. The CESASC Scholarship Foundation was created as a companion charitable non-profit organization to CESASC for raising funds for scholarships and educational programs. The Foundation has enabled CESASC to award scholarships annually to undergraduate and graduate students. The scholarship recipients have also been invited to participate in and present their research work in Technical Symposiums. In 2012, the CESASC launched a STEM program for local middle and high school students to promote STEM education. In 2013, CESASC started a LEAP program working together with college student organizations to provide career-related guidance, education, mentorship and opportunities to help young generations for their professional development. In 2015, CESASC started Student Business Innovation Competition, which serves as a launch pad for innovative business ventures from aspiring student entrepreneurs by providing mentoring and exposure. In 2018-2019, CESASC and the Cultural Foundations of Zhendai He USA (CFZH) jointly launched an Arts-Tech Poster Contest to promote the fusion of arts and science/technology. In 2020, CESASC and UCA(United Chinese American) jointly launched "Creativity again COVID-19" Multimedia Art Contest. Starting in 2020, CESASC and Lisa Lu Foundation jointly launched CESASC Lisa Lu Scholarship for students in arts. Starting in 2021, CESASC Jonathan H. Jiang (JHJ) Prize for Fundamental Science was launched thanks to the generous donation by Dr. Jonathan H. Jiang. In 2022, CESASC- Zhendai He Scholarship was launched jointly by CESASC and the Cultural Foundations of Zhendai He USA (CFZH).

Industrial Relations

CESASC brings together all segments of engineering and science by reaching out to prominent industrial companies in Southern California. Through its technical symposiums, leadership programs, and seminars, CESASC has been able to broaden the base of its membership, expand networking platform, and provide added services to its members. The support and sponsorship from the industry have made CESASC as one of the most influential Chinese-American professional organizations in the USA.

International Advancement Cooperation Programs

Since the late 1980s, CESASC has organized numerous global cooperation activities to promote information exchange among professionals. During the past years, CESASC has accomplished mutual visits for government officials, university and industry leaders from the Pacific Rim countries or areas.



南加州中華科工學會簡介

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

南加州中華科工學會（CESASC，簡稱科工會）成立於1962年，為一非營利專業團體，是美國南加州地區歷史最悠久、組織最完善的華美科技專業學會之一。這個由任職於南加州大學、高科技企業公司、及政府管理部門的華裔專業人士組成的科技組織，多年來致力於會員間的專業互動、科技交流、會員及團體權益福祉的維護，就業與教育相關資訊分享，以及開展社區服務活動。2011年科工會榮獲洛杉磯華美博物館（Chinese American Museum）第十五屆歷史締造者傑出科學暨工程領導獎（Excellence in Science and Engineering Leadership Award）。2019年科工會榮獲美國華裔民選官員協會（Chinese-American Elected Officials）年度社區合作夥伴獎（Community Partner of the Year Award）。

年會是科工會的年度重要活動，會中的專題演講人及傑出成就獎得主均為一時之精選，包括諾貝爾獎得主楊振寧博士、李政道博士、丁肇中博士、李遠哲博士、高錕博士及朱棣文博士、美/中/台兩岸三地國家科學/工程/醫學學院及中科院和中央研究院院士吳健雄博士、吳耀祖博士、錢煦博士、朱經武博士、何志明博士、楊福家博士、王曉東博士、張懋中博士、翁玉林博士及廖俊智博士、以及美國前勞工部趙小蘭部長、加州大學伯克利分校校長田長霖博士、加州大學聖塔巴巴拉分校校長楊祖佑博士、《時代》周刊1996年年度人物何大一博士，著名導演李安等。此外，中/港/台科技界著名科學家及政要多人亦曾應邀出席科工會學術交流活動及在年會中發表專題演講。

科工會於1986年首度推出大型科技研討會，為日後成立的華美科技組織樹立了楷模。研討會囊括的範圍甚廣，從航空太空到資訊科技、從環保運輸到生物醫學、從光電、建築到電子商務、以及近來益受重視的管理科學、奈米科技等項目均令與會者受益良多。年度研討會中也常邀請主流公司以演說、座談、展覽等方式為參加者提供科技界的最新動態。為加強與美國學界的合作交流，近年來科工會更與加州大學洛杉磯分校聯合主辦“奈米材料和應用元件國際研討會”（International Symposium on Materials Enabling），深獲好評。

鼓勵青少年的參與是科工會成立至今的主要目標之一。1987年獎學金基金會（Scholarship Foundation）成立，在會員及社區熱心人士的慷慨捐助下，定期為大學部或研究所的在學學生頒發績優及清寒獎學金，得獎學子並應邀在科技研討會中就其科研成果展示或發表演說。此外，科工會亦多次舉辦青少年科工競賽，獲得學生及指導教師的大力支持。值得一提的是，許多獎學金獲得者成為學界翹楚或行業精英，有的更因其傑出表現榮獲科工會傑出成就獎，給予科工會及獎學金基金會莫大的激勵。

八十年代末，科工會曾致力於全球合作計畫，藉以推展科技交流。歷年來，屢為太平洋地區的中、港、台、星、泰及美國的產、官、學界專業人士組成科技互訪團。此外，為培育科技人才並發展科技教育，科工會亦曾協助吳家瑋校長籌集資金與網羅人才，創辦香港科技大学。美國前國會議員及國會科學技術委員會前主席 George E. Brown, Jr.，曾在科工會1994年科技研討會的專題演講中，特別表彰科工會對亞太地區科技交流所作出的貢獻。

科工會的活動歷年來獲得多個主流公司企業及基金會的大力贊助，方能在全體理事羣策羣力下，藉由科技研討會、獎學金計劃、領導才能培訓及專題討論會等活動，積極吸收新鮮血液，拓展交流平台，並逐步發展成為南加州甚具影響力的華美科技組織。

具有六十二年輝煌歷史的科工會，仍充滿青春活力，在服務社區中發揮著重要的作用。

2023-2024 CESASC Executive Team Members

(in alphabetical order)



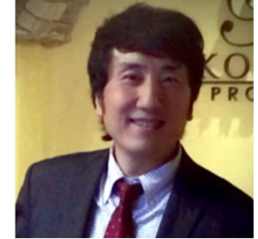
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Chair of IT



Jia Fan
Secretary & Media Relation Chair



Chenxi Guo
Chairman



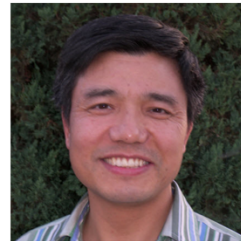
Dr. Jonathan Jiang
President



Dr. Jinxing Li
Chair of Scholarship
Co-chair of Convention



Dr. Charley Lu
Chair of Public Relations



Dr. Liping Yan
Chair of Technical Symposium



Dr. Kangshi Wang
Treasurer
Co-chair of Convention



Xuemei Wei
Co-chair of Innovation Forum



Dr. Lei Xu
Co-chair of Public Relations



Dr. Ying Zhan
VP & Co-Chair of Fundraising



Dr. Jiachen Zhang
Chair of Innovation Forum



CESASC: Empowering Innovation and Leadership for Tomorrow's Challenges in Science and Engineering



CESASC Officers and Directors (1962-2024)

Year	Chairman	President	Vice-President	Secretary	Treasurer	Directors
1962		Henry Chi		Sherwin Chan	Charles Yen	
1963		Norman Au		Yi-Jin Liu	James C. Liu	
1964		Tung-Hua Lin		Eugene Tsao	Lewis Au	
1965		Chung-Ming Wong		Frederick Liu	Wellington Loh	
1966		Fred Liu	V. H. Ho	Sherman Yu	David Huang	
1967		Theodore Wu	Tung Po Lin	Kam Wong	Sheng To Chu	
1968		Ju Chin Chu	Kam L. Wang	Chia Huan Lee	Sai Fu Lee	Theodore Wu, F. F. Liu, C.M. Wong
1969		Lewis L.T. Au	Tung Po Lin	Margaret Tan	Sui-An Fung	Ju-Chin Chu, Theodore Wu, Fred F. Liu
1970		Wellington Loh	Paul Yeh	C. P. Tung	Huang Chao	Lewis Au, Ju-Chin Chu, Theodore Wu
1971		Paul Yeh	Jim Gee	Ming Moy	C. W. Chien	Wellington Loh, Lewis Au, Ju Chin Chu
1972	Paul Leung	Paul Leung	Stu Y. Lee	K. C. Chiang	Paul Lem	Tung-Hua Lin, Henry Chi, Kam L. Wong
1973	Kam L. Wong	Tung-Po Lin	Raphael E. Ting	Wen Ling Kuo	Irving Chen	Henry Chi, Paul Leung
1974	Kam L. Wong	Steven Tang	Lois Chi	Wen Ling Kuo	Sam Gee	Paul Leung, Tung Po Lin
1975	Tung Po Lin	K. C. Chiang	John N. Chan	Peter K. Dai	David W. Kwan	Paul Leung, Steven S. Tang
1976	Tung Po Lin	Peter Dai	S.S. Kwong	Teresa Sun	David Liu	Steven S. Tang, K. C. Chiang
1977	Peter Dai	John Chan	Lily Wang	Charles Wang	Tenly Fong	Steven S. Tang, K. C. Chiang
1978	K. C. Chiang	S. S. Kwong	Louise Huang	Heeman Wong	Tenly Fong	Peter Dai, John Chan
1979	Peter Dai	Charles Wang	Catherine Kwan	Tennyson Wang	Sherman Yu	John Chan, S. S. Kwong
1980	Charles Wang	Tennyson Wang	Jay C. Chen	Roger Fan	Housen Lee	John Chan, S. S. Kwong
1981	Charles Wang	Han C. Leung	Munson Kwok	Jay C. Chen	Fleur W. Yano	S. S. Kwong, Tennyson Wang
1982	Tennyson Wang	Sui-An Fung	Timothy Kar Yu	William Chang	Fleur W. Yano	Han C. Leung, Charles Wang
1983	Tennyson Wang	Shih-Yuan Chen	Timothy Kar Yu	Grace Hu	Fleur W. Yano	Sui-An Fung, Han C. Leung
1984	Sui-An Fung	Frank Wang	Lois Chi	D. N. Yin	T. S. Fu	Shih-Yuan Chen, Han C. Leung
1985	Shih-Yuan Chen	Chieh Sun	Shui-Lin Chao	Sherman Yu	Daniel Wong	Sui-An Fung, Frank Wang
1986	Chieh Sun	Shui-Lin Chao	Sherman Yu	Chih-Ming Ho	Edward Liu	Sui-An Fung, Frank Wang
1987	Frank Wang	Sherman Yu	Chih-Ming Ho	Tom Sun	T. J. Wang	Shui-Lin Chao, Chieh Sun
1988	Chieh Sun	Chih-Ming Ho	Wei Kao	Pong Chao	Y. S. Wang	Shui-Lin Chao, Sherman Yu
1989	Sherman Yu	Wei Kao	Edward Liv	Wennie Wu	Richard Sheng	Shui-Lin Chao, Chih-Ming Ho
1990	Chih-Ming Ho	Edward Liu	Tom Sun	Wai-Min Liu	Richard Sheng	Wei Kao, Sherman Yu
1991	Wei Kao	Catherine Kwan	Kung Yao	T. C. Wang	Richard Sheng	Chih-Ming Ho, Edward Liu
1992	Edward Liu	George Chao	Philip Chen	Gan-Tai Tseng	Albert Hsieh	Wei Kao, Catherine Kwan
1993	Edward Liu	T. J. Wang	Eastwood Im	Elizabeth Kay	Albert Hsieh	George Chao, Chih-Ming Ho, S.R. Lin, Kung Yao
1994	George Chao	Eastwood Im	Kung Yao	Elizabeth Kay	Michael Chan	Wei Kao, S. R. Lin, T. J. Wang, T.T. Yang
1995	Sherman Yu	Kung Yao	Michael Chan	Philip Chen	Elizabeth Kay-Im	Eastwood Im, Munson Kwok, Jin-Jen Lee, S. R. Lin, T. J. Wang, T. T. Yang
1996	Kung Yao	Elizabeth Kay-Im	John Chen	T. J. Chou	Rosalind Lee	Eastwood Im, Munson Kwok Jiin-Jen Lee, Sherman Yu
1997	Eastwood Im	Tientsai Yang	Munson Kwok	C. Y. Chang	Pin Fun Tsai	Elizabeth Kay-Im, Jin-Jen Lee Sheng-Rong Lin, Kung Yao
1998	Elizabeth Kay-Im	Munson Kwok	Jin-Jen Lee	Shen Li	Tiffany Chiu-Mou	Michael Chen, S. R. Lin T.T. Yang, Kung Yao
1999	Wei Kao	William Chang		Shen Li	Tiffany Chiu	Munson Kwok, Michael Chan, T. T. Yang, Charles Sie, Elizabeth Kay-Im



CESASC Officers and Directors (1962-2024)

Year	Chairman	President	Vice-President	Secretary	Treasurer	Directors
2000	Munson Kwok	S. R. Lin	Kang Wang	Barbara Nakamura	Shen Li	William Chang, Sam Feng, Wei Kao, Charles Sie
2001	Munson Kwok	Edward Liv	Liping Yan		Shen Li	William Chang, Henry Chi, Sam Feng, Wei Kao, S.R. Lin, Charles Sie
2002	William Chang	Charles Wang	Liping Yan	Muriel Ho	Shen Li	Amy Chen, Henry Chi, S. R. Lin, Charles Sie
2003	William Chang	Charles Wang	Shan Lee	Muriel Ho	Shen Li	Amy Chen, Henry Chi, Charles Sie
2004	Charles Wang	Shirley Ho	Liping Yan		Shen Li	William Chang, Elizabeth Kay-Im, Edward Liu, Charles Sie
2005	Shirley Ho	Shan Lee	Sikun Lan	Konrad S. H. Zhu	Linda Chen	Elizabeth Kay-Im, Charles Sie Charles Wang, Liping Yan
2006	Shan Lee	Sikun Lan	Christine Xu	David K. Lee	Linda Chen	Shiuan Chen, Shirley Ho, Elizabeth Kay-Im, Konrad Zhu
2007	Shan Lee	Sikun Lan	David K. Lee	Manwai Szeto	Jennifer Feng	Jia Ming Chen, Shiuan Chen, Will Chou Manwai Szeto. Wensheng Zhou, Konrad, S. H. Zhu
2008	Sikun Lan	David K. Lee	Wensheng Zhou	Manwai Szeto & Ying Zhang	Crystal Chen & Manwai Szeto	Jia Ming Chen, Katherine He, Wei Kao, Jason Wen, Fonda B. Wu
2009	Wei Kao	Wensheng Zhou	Yiu Man So	Ying Zhang	Manwai Szeto	Youping Gao, Katherine He, Sikun Lan, David K. Lee, Jason Wen, Fonda B. Wu
2010	Shirley Ho	Yiu Man So	Jason wen	Yutao He	Manwai Szeto	Joseph Chen, Youping Gao, David K. Lee, Allison Tong, Xu Yin, Wensheng
2011	Shirley Ho	Jason Wen	Yutao He	Youping Gao	Manwai Szeto	Joseph Chen, Shan Lee, Yiu Man So, Allison Tong, Mingsong Yin, Xu Yin, Wensheng Zhou
2012	Jason Wen	Yutao He	Liping Yan	Youping Gao	Manwai Szeto	Joseph Chen, Alex Hsu, Sheng-he Huang, Shan Lee, Nancy Lin, Dankai Liu, You Man So. Mingsong Yin
2013	Yutao He	Liping Yan	Yue Rong	Mingsong Yin	Manwai Szeto	Joseph Chen, Alex Hsu, Sheng-he Huang, Nancy Lin, Jason Wen, Peter Zhang
2014	Liping Yan	Dankai Liu	Lan Saadatnejadi	Alex Hsu	Manwai Szeto	Joseph Chen, Yutao He, Jerry Huang, Sheng-he Huang, Zhaofeng Huang, Yingdi Liu, Peter Zhang
2015	Dankai Liu	Yue Rong	Lan Saadatnejadi	Dongmei Huang	Manwai Szeto	Xiwu Cao, Joseph Chen. Yutao He, Jill Long, Hui Su, Liping Yan, Peter Zhang
2016	Yue Rong	Lan Saadatnejadi	Dongmei Huang	Hui Su	Manwai Szeto	Xiwu Cao, Ja Fan, Yutao He, Jill Long, Wanwan Yang, Yang Yang, Peter Zhang
2017	Lan Saadatnejadi	Dongmei Huang	Hui Su	Jia Fan	ManWai Szeto	Yu Gu, Yutao He, Jill Long, Yue Rong, Charles Wu, Wanwan Yang, Yang Yang
2018	Dongmei Huang	Hui Su	Ping Zhou	Jia Fan	Yu GU	Yutao He, Jill Long, Charley Lu, Lan Saadatnejadi, Charles Wu, Ying Zhan
2019	Hui Su	Ping Zhou	Charley Lu	Jia Fan	Yu Gu	Bruce Liu, Dongmei Huang. Nancy Huang, Xudong Jia, Kangshi Wang, Ying Zhan
2020	Ping Zhou	Charley Lu	Bruce Liu	Jia Fan	Yu Gu	Nancy Huang, Xudong Jia, Hui Su, Ying Zhan, Kangshi Wang, Mingsong Yin
2021	Charley Lu	Bruce Liu	Chenxi Guo	Kangshi Wang	Jingxing Li	Ping Zhou, Nancy Huang, Xudong Jia, Jiachen Zhang, Ying Zhan, Jingtan Su
2022	Bruce Liu	Chenxi Guo	Kangshi Wang	Jia Fan	Ying Zhan	Nancy Huang, Xudong Jia, Jiachen Zhang, Jonathan H. Jiang, Jingtan Su, Charley Lu, Bruce Liu
2023	Chenxi Guo	Jonathan Jiang	Ying Zhan	Jia Fan	Kangshi Wang	Chenxi Guo, Jinxing Li, Bruce Liu, Alex Ma, Jingtan Su, Lei Xu, Jiachen Zhang
2024		Ying Zhan	Lei Xu	Jia Fan	Alex Ma	Jonathan Jiang, Chenxi Guo, Jinxing Li, Kangshi Wang, Xuemei Wei, Jiachen Zhang, Yongping Zhang



ACKNOWLEDGEMENTS

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Vice President: Lei Xu (徐蕾)

Treasurer: Alex Ma (馬萬鈞)

Chairperson of the Board: *to be elected*

Board Members: Chenxi Guo (郭辰曦), Jonathan H. Jiang (蔣紅濤), Jinxing Li (李金星), Kangshi Wang (汪康熙), Xuemei Wei (魏雪梅), Jiachen Zhang (張佳辰), Yongping Zhang (張勇平)

2023-2024 Board Members and Officers

President: Jonathan H. Jiang (蔣紅濤)

Secretary: Jia Fan (范佳)

Vice President: Ying Zhan (戰穎)

Treasurer: Kangshi Wang (汪康熙)

Chairperson of the Board: Chenxi Guo (郭辰曦)

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Executive Committees:

CESASC Board Nomination Committee: Chenxi Guo (Chair), Yutao He, Jonathan H. Jiang, Bruce Liu, Charley Lu, Yue Rong, Liping Yan

Convention Committee: Jonathan H. Jiang (Chair), Chenxi Guo, Ying Zhan, Jinxing Li, Kangshi Wang

Fundraising Committee: Ying Zhan (Chair), Kangshi Wang (Co-Chair), Jonathan H. Jiang, Chenxi Guo, Lei Xu

Technical Symposium Committee: Liping Yan (Chair), Jonathan H. Jiang

Entrepreneurship and Innovation Forum Committee: Jiachen Zhang (Chair), Xuemei Wei, Jonathan H. Jiang

CESASC Lisa Lu Scholarship Committee/Judges: Jinxing Li (Chair), Yiwei Lu, Kay N. Zhang, Kangshi Wang

CESASC JHJ Prize and STEAM Essay Contest Committee /Judges: Jonathan H. Jiang (Chair), Jinxing Li (Co-Chair), Nancy Huang, Liping Yan, Chengxing Zhai, Ying Zhan

CESASC “New Era Talk” and “Envisioning Beyond the Horizon” STEM Seminar Committee: Jonathan H. Jiang (Chair), Jinxing Li, Chenxi Guo, Ying Zhan

CESASC Scholarship Award Selection Committee: Jinxing Li (Chair), Jonathan H. Jiang, Nancy Huang, Liping Yan, Chengxing Zhai, Ying Zhan

Public/Media Relation Committee: Jia Fan (Chair), Kangshi Wang (Co-chair), Chenxi Guo, Ying Zhan

IT/Web Management and Social Media: Wei-qun Chen (Chair), Jia Fan (Co-chair), Chenxi Guo, Jinxing Li

Anniversary Journal Committee: Jonathan H. Jiang (Chair), Jinxing Li, Chenxi Guo, Liping Yan, Ying Zhan

Anniversary Journal Cover Design and Convention Flyer Design: Jia Fan and Jonathan H. Jiang



Photo Recaptures of 2023 CESASC Convention



Keynote Speech by
Dr. Fan-Gang Zeng



Achievement Award
Presentation to Dr. Dean Ho



Entrepreneurship Panel
Speakers



2023-2024 Board Installation



Scholarship Award Ceremony



Former CESASC Presidents Group Photo



Dance Performance



Photo of CESASC members, awardees, convention performers and friends
(Convention event on 4/1/2023)



Photo Recaptures of 2023-2024 CESASC Activities



2023 STEAM Essay Competition Winners Visiting Jet Propulsion Laboratory (June-July, 2023)



Convention Celebration Party
(6/3/2023)



Beach BBQ Party
(10/14/2023)



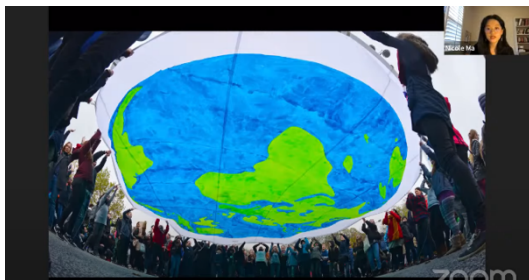
Holiday Party
(12/23/2023)



Dr. Jonathan H. Jiang at
CESASC STEM Seminar



Dr. Margaret Galland Kivelson
at CESASC STEM Seminar



2023 CESASC New Era
Talk EP 1 – Global Warming



Premiere Screening of *Techné:
Evidence in the Anthropocene*



Photo Recaptures of 2023-2024 Guest Activities



Dr. Jonathan H. Jiang giving a talk at USACSA Annual Symposium (9/17/2023)



CESASC members at CTUAASC 80th Anniversary (11/12/2023)



CESASC members at CAPA Annual Convention (11/18/2023)



CESASC members at PUAASC Annual Convention (11/19/2023)



CESASC members at CUAAASC Annual Convention (12/27/2023)



CESASC members at SCCAEPAA Annual Convention (3/17/2024)



Message from Incoming CESASC President

Dear CESASC Members and Friends:

It is a great honor for me to have this opportunity to serve CESASC. With great humility and gratitude, I thank you all for the trust you have placed in me. I believe that working with this CESASC executive team will be a unique experience and will also be an opportunity for growth in my life.

Over the past 62 years, CESASC has created a rich and fruitful history. All CESASC members and I are honored to continue carrying our legacy forward into a new era.

As the newly elected president, I will continue to give full devotion to my professional advantages, work with all CESASC members to face challenges together, and maximize the social role of CESASC based on the principles of cooperation, innovation, and inclusiveness.

CESASC members consist of outstanding scientists, engineers, entrepreneurs, and leaders. Each member plays an important role in their respective fields. I offer sincere thanks for your excellence and your contributions that have allowed CESASC to grow into an outstanding organization.

Our goal is to serve every member well and inherit and develop the historical mission of CESASC. We are always a unit, supporting each other and working together. To serve CESASC well and effectively, we continuously look forward and welcome every member's feedback, ideas, and suggestions. We are also willing to hear every member's concerns and resolve those concerns and issues quickly and efficiently.

With great humility, I look forward to serving and working for all CESASC members. Together, we can cultivate a brighter future for our community and the larger society.

Thank you!

Ying Zhan, Ph.D.

President, CESASC





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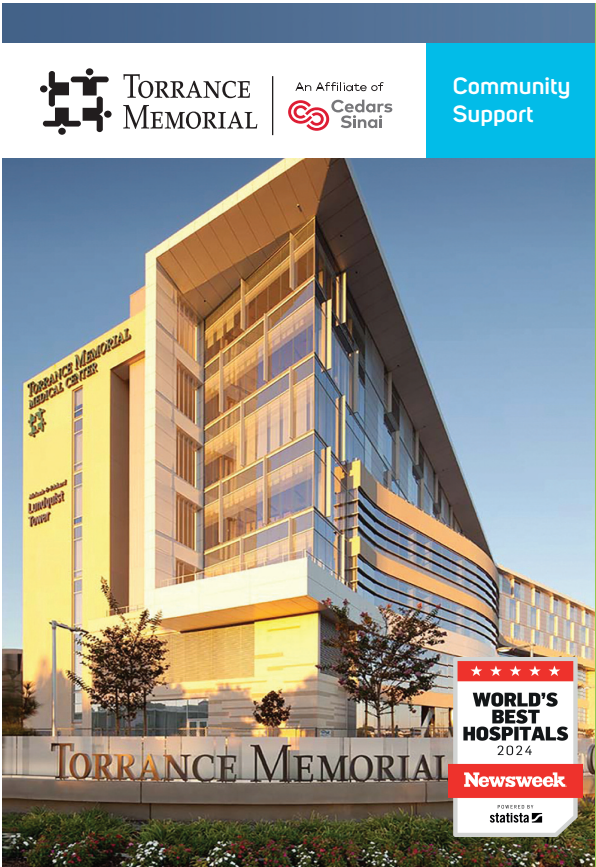
**Jason Wen
AQX Engineering Inc.**



CESASC
南加州中華科工學會

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