



南加州中華科工學會

Chinese-American Engineers and Scientists Association of Southern California


Since 1962 In USA

# 57<sup>th</sup> Annual Convention Journal

2019:  
Towards a  
Sustainable  
Tomorrow

Lunch Keynote | Technical Symposium | Career Panel | Scholarship | STEM Workshop | Business Forum | Award Ceremony | Evening Gala





Our investment approach:  
Slow thinking by man,  
Fast thinking by machine.

# Lighthouse Asset Management

*Alpha<sup>+</sup>*



Email: [ir@lighthouseam.com](mailto:ir@lighthouseam.com)





## WELCOME MESSAGE

From CESASC President 2018-2019

April 14, 2019



Dear CESASC Members and Friends:

Welcome to the 57<sup>th</sup> CESASC Annual Convention at San Gabriel Hilton, CA. CESASC's annual convention provides a platform for the engineering and science industry to broaden its exposure and network both locally and internationally. This year's convention theme is "*Towards a Sustainable Tomorrow*", featuring innovative technologies for better sustainability.

During the day-long extravaganza, world-class experts in academia and industry will disseminate cutting-edge technologies that shape the present and the future. Established leaders will share their success stories with early-career professionals. Don't miss out this rare opportunity to be informed and inspired. At the evening award ceremony, we are proud to honor Dr. Carter Tseng, Chairman and CEO of Little Dragon Foundation for Lifetime Achievement Award in Social Impacts, and Dr. Jason Cong, Distinguished Chancellor's Professor of Computer Science of UCLA, Mr. Erik Takayesu, Vice President of Transmission, Substations and Operations of Southern California Edison, and Dr. Yitang Zhang, Distinguished Professor of Mathematics of UCSB for Achievement Awards. CESASC Scholarship recipients, winners of the STEM essay contest and Arts-Tech poster contest will be recognized. Congratulations to all the award recipients and contest winners!

Founded in 1962, CESASC is one of the largest and longest standing Chinese-American professional organizations in Southern California. CESASC's dedication in promoting engineering and science has inspired multiple generations in career advancement and business expansion. CESASC is committed to further this mission in the years to come.

We would like to thank our sponsors whose generosity made it possible to share this exciting day with all of you. We would also like to thank all the volunteers who have worked tirelessly to make this event successful year after year.

It has been a great honor and privilege to serve you. Hope you enjoy this wonderful day and see you next year!

Sincerely,

Hui Su  
President of CESASC





**CESASC**  
南加州中華科學會

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

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WAYS AND MEANS**  
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**WASHINGTON OFFICE:**

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(202) 225-5467 (Fax)

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

April 14, 2019

CESASC  
4810 Deelane Place  
Torrance, CA 90503

Dear Friends,

It is with great pleasure that I congratulate the Chinese-American Engineers and Scientists Association of Southern California for its celebration of the professional excellence of Chinese American engineers and scientists at the 57<sup>th</sup> Annual Convention – Towards a Sustainable Tomorrow.



The Chinese-American Engineers and Scientists Association of Southern California has been positively impacting the fields of Science, Technology, Engineering, and Mathematics. The 57<sup>th</sup> Annual Convention – Towards a Sustainable Tomorrow, featuring innovative technologies for better sustainability, provides a platform for engineering and science professionals to network and broaden exposure. These individuals are making history, and through recognition and unrelenting support, the Chinese-American Engineers and Scientists Association of Southern California will continue to push for innovation and discovery.

I commend the 57<sup>th</sup> Annual Convention's attendees and would like to encourage the researchers to continue protecting the interests and rights of scientists and engineers through organizational efforts. I also support the Association's work in building cross-cultural relationships through global and local networking.

On behalf of the United States House of Representatives and the people of the 27<sup>th</sup> Congressional District, I offer my congratulations and best wishes for the continued success of the Chinese-American Engineers and Scientists Association of Southern California and our science and engineering leaders.

Sincerely,

*Judy Chu*

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





Assembly  
California Legislature

**ED CHAU**  
周本立, 加州眾議員

ASSEMBLYMEMBER, FORTY-NINTH DISTRICT

**STATE CAPITOL**

P.O. BOX 942849  
SACRAMENTO, CA 94249-0049  
(916) 319-2049  
FAX (916) 319-2149

**DISTRICT OFFICE**

1255 CORPORATE CENTER DR., SUITE 306  
MONTEREY PARK, CA 91754  
(323) 264-4949  
FAX (323) 264-4916

**E-MAIL**

Assemblymember.Chau@assembly.ca.gov

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TECHNOLOGIES AND INNOVATION

April 14, 2019

Hui Su, President  
CESASC  
4810 Deelane Place  
Torrance, CA 90503

Dear Friends:



It is with great pleasure that I congratulate the Chinese-American Engineers and Scientists Association of Southern California (CESASC) on hosting their 57<sup>th</sup> Anniversary Annual Convention, "Towards a Sustainable Tomorrow", at the Hilton Los Angeles/San Gabriel Hotel.

Since their establishment in 1962, as the Chinese Engineers' Club of Southern California, CESASC has grown into one of the largest Chinese-American professional organizations in Southern California. CESASC has diligently striven to enrich the experience of their members, while helping to connect them with both local and global networks. I applaud CESASC's board on their unwavering dedication in helping to inspire and mentor the next generation of Science, Technology, Engineering, and Mathematics (STEM) leaders.

On behalf of the California State Assembly's 49<sup>th</sup> District, I commend CESASC for their efforts in supporting the STEM field. Congratulations and best wishes for your continued success.

Warm Regards,

**Ed Chau**  
Assemblymember, District 49





**CESASC**  
南加州中華科學會



# BOARD OF SUPERVISORS COUNTY OF LOS ANGELES

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**KATHRYN BARGER**  
SUPERVISOR, FIFTH DISTRICT

April 14, 2019

Chinese-American Engineers and Scientists  
Association of Southern California  
4810 Deelane Place  
Torrance, CA 90503



Dear Friends,

你好! Nǐ hǎo! Greetings to you, your guests, and supporters gathered for the Chinese-American Engineers and Scientists Association of Southern California's 57<sup>th</sup> Annual Convention.

Los Angeles County appreciates CESASC's work to provide a platform for engineering and science professionals to network, share ideas, develop leadership skills, and create a strong programs for Science, Technology, Engineering, and Mathematics to broaden students' talents and knowledge. I commend CESASC's continued dedication to advocate for unique and powerful opportunities for young professionals, future scientists, and engineers in their formative years.

I look forward to our continued partnership.

Best wishes,

KATHRYN BARGER  
Supervisor, Fifth District

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Tom Beck  
*Council Member*

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*Council Member*

April 14, 2019

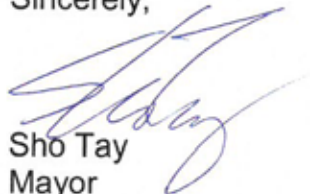
To the Chinese – American Engineers and Scientists Association of  
Southern California,

I would like to take this opportunity to extend my congratulations to  
you on your 57<sup>th</sup> Annual Convention Dinner Gala. It is a pleasure to  
honor your great organization.

Thank you for your continued efforts to promote and advocate the  
best interest, aspirations, and professional excellence of Chinese-  
American engineers and scientists; and for providing career and  
educational enhancement opportunities, fellowship, and community  
service.

Best wishes for a memorable evening and event.

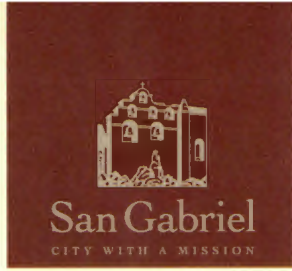
Sincerely,



Sho Tay  
Mayor

240 West Huntington Drive  
Post Office Box 60021  
Arcadia, CA 91066-6021  
(626) 574-5403 City Hall  
(626) 446-5729 Fax  
[www.ArcadiaCA.gov](http://www.ArcadiaCA.gov)





**Phone:** 626.308.2800

**Fax:** 626.458.2830

**City Hall:** 425 South Mission Drive, San Gabriel, California

**Mail:** P.O. Box 130, San Gabriel, California 91778-0130

**Web:** SanGabrielCity.com

Hui Su, Ph.D.  
President  
Chinese-American Engineers and Scientists  
Association of Southern California  
1277 Hillside Street  
Monterey Park, CA 91754

It is my pleasure to congratulate the Chinese-American Engineers and Scientists Association of Southern California (CESASC) on their 57<sup>th</sup> Anniversary Annual Convention.

I commend and appreciate CESASC for their exemplary job in providing career and educational advancement opportunities to assist and empower the Chinese-American engineers and scientists.

My best wishes to you and your organization for continued success.

Very truly yours,

Chin Ho Liao  
Councilmember  
City of San Gabriel





**2019 CESASC Convention Daytime Program**  
**南加州中華科工學會第 57 屆年會科技研討會**  
11:00 am – 5:00 pm, April 14, 2019, San Gabriel Hilton  
**Towards a Sustainable Tomorrow (可持續的明天)**

TIME	TOPIC AND LOCATION			
11:00 am	Check-in and Social			
	Welcome & Lunch Keynote Session (Ballroom C)			
11:30 am ~ 1:00 pm	<p><b>Moderator:</b> Dankai Liu, Keynote Speaker Committee Chair</p> <p><b>11:30 am – 12:00 pm</b></p> <p><b>Ms. Tsai-Yi Iris Wu (吳采頤)</b>, Founder of Ambidio</p> <p><b>“To Influence or Be Influenced: The Future of Content When the Audience and Technology Call the Shots”</b></p> <p><b>12:00 pm – 12:30 pm</b></p> <p><b>Dr. Hsian-Rong Tseng (曾憲榮)</b>, Professor, Department of Molecular and Medical Pharmacology, UCLA</p> <p><b>“Nanotechnology-Enabled Non-Invasive Diagnostics for Cancer and Pregnancy”</b></p> <p><b>12:30 pm – 1:00 pm</b></p> <p><b>Dr. Carter Tseng (曾憲章)</b>, Chairman &amp; CEO of Little Dragon Foundation</p> <p><b>“From Entrepreneur to Philanthropist - A Personal Journey”</b></p>			
1:00 ~ 1:30 pm	Networking Break w/Exhibitors (Lobby)			
	Ballroom C	San Francisco (2:00 – 4:15 PM)	Santa Barbara	San Diego (1:30 – 3:00 PM)
1:30 ~ 2:00 pm	<p><u>Technical Symposium</u></p> <p><b>Moderator:</b> Charley Lu, Technical Symposium Chair</p> <p><b>Mark Gold</b>, Ph.D., Associate Vice Chancellor for Environment and Sustainability, UCLA</p> <p><b>“Can a megacity become sustainable?: The Sustainable LA Grand Challenge”</b></p>	<p><u>Business Innovation Forum</u></p> <p><b>Moderator:</b> Bruce Liu and Ying Zhan, Business Committee Co-Chairs</p> <p><b>Dr. Gary Gao</b>, Chairman/Co-Founder of Singlera Genomics</p>	<p><u>STEM Workshop</u></p> <p><b>Moderator:</b> Yiu Man So, STEM Committee Chair</p> <p><b>"Future Technologies that Help Human Lives"</b></p>	<p><u>Scholarship Panel</u></p> <p><b>Moderator:</b> Ping Zhou, Scholarship Committee Chair</p> <p><b>Dr. Jinxing Li</b></p> <p><b>Dr. Yiwen Fang</b></p> <p><b>Dr. LipingYan</b></p>
2:00 ~ 2:30 pm	<p><b>Guoping Fan (范國平)</b>, Ph.D., Professor, Department of Human Genetics, UCLA</p> <p><b>“Genetic Engineering, Cell and Gene Therapy: The Application of CRISPR Technology”</b></p>	<p><b>Dr. Wendy Hua</b>, Managing Partner of Cybernaut US Venture Capital Funds</p>		<p><b>" Success in U.S. Scoring System"</b></p>
2:30 ~ 3:00pm	<p><b>S. Babu Kaza</b>, J.D., Senior Associate, Squire Patton Boggs, Former Attorney of the US Department of Justice</p> <p><b>“From the Legal Perspective: What to do if you are the target of an investigation?”</b></p>	<p><b>Dr. Yongchun Tang</b>, President of Power, Environmental and Energy Research (PEER) Institute</p> <p><b>Mr. Nate Xiao</b>, Director of Daddy’s Choice North America</p>		
3:00 ~ 3:15 pm	Coffee Break	Coffee Break	Coffee Break	
3:15 ~ 4:15 pm	<p><u>Career and Leadership Development Panel</u></p> <p><b>Moderator:</b> Yutao He, Career Committee Chair</p> <p><b>Panelists:</b> Mimi Aung, Project Manager of Mars 2020 Helicopter Project, JPL/Caltech</p> <p><b>Yue Rong</b>, Ph.D., Program Manager, CA Environmental Protection Agency</p> <p><b>Jonathan Yang</b>, Edison STEM Scholar, UC Berkeley</p>	<p><u>Business Panel Discussion</u></p> <p><b>Dr. Dongping Lin</b>, Founding Partner, Guoqin Venture Capital</p> <p><b>Dr. Gary Gao</b></p> <p><b>Dr. Yongchun Tang</b></p> <p><b>Dr. Wendy Hua</b></p>		
4:15 ~ 4:30 pm	Coffee Break			
4:30 ~ 5:00 pm	Press Conference (Ballroom C)			

Floor Manager: Janice Tsae-pyn Shen

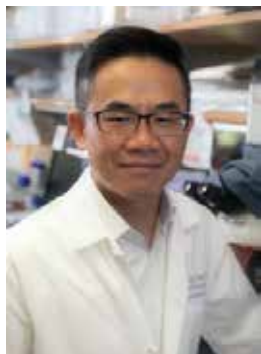


## 2019 Technical Symposium

### Luncheon Keynote Speakers



*Ms. Tsai-Yi (Iris) Wu*, 吳采頤, is the founder and idea generator of Ambidio. She studied medical technology at Taipei Medical University and has a Master's Degree in Music Technology from New York University. Iris was listed on 40 Under 40 by Prestige, Asia's Top 50 Rising Tech Stars by Tatler, and a TEDx speaker. She continues to believe in the relentless pursuit of creating different ways to experience sound.



*Dr. Hsian-Rong Tseng* (曾憲榮) was trained as a synthetic organic chemist at National Taiwan University and is currently a Professor in Department of Molecular and Medical Pharmacology in David Geffen School Medicine at UCLA. For almost two decades, his research team has been working on the development of biomimetic nanomaterials for clinical applications in the field of circulating biomarkers. To facilitate the commercial transition of these diagnostic technologies, Dr. Tseng founded CytoLumina Technologies Corp. that has licensed the related intellectual properties from UCLA. CytoLumina's circulating tumor cells (CTC) enumeration assay is currently undergoing an FDA 510(k) medical device clearance for prognostic utility in prostate cancer.



*Dr. Carter Tseng* (曾憲章), Chairman & CEO of Little Dragon Foundation, Co-Founder of Microtek (IPO 1988). He worked for USA based companies including Lockheed and Xerox where he held increasingly responsible positions in such areas as system design, technical marketing and Hi-Tech enterprise management. He held seats on the boards of several Hi-Tech technology enterprises, and educational organizations. Dr. Tseng is a Director of the USA-based "Committee of 100", Board of Trustee of Give2Asia Foundation, and is Co-founder of ECO Foundation for environment. He is the special advisor to Tsinghua University President, and EMBA & CEO Training Professor. He also serves as Business Advisory Council (BAC) member for the University of Alberta, Canada. He is also a Co-founder of Monte Jade Science & Technology Association (USA). Dr. Tseng received the "2004 Distinguished Achievement Award" from CIE (Chinese Institute of Engineers, USA) in recognition of his "pioneering work and leadership in high-tech industry" and "contribution in education on industrial management"; was invited by USA give2Asia Foundation as Board of Trustee. In 2008, Dr. Tseng received the National Friendship Award, the highest recognition granted to foreign experts in China.



## 2019 Technical Symposium Speakers



Dr. Mark Gold is the UCLA Associate Vice-Chancellor for Environment and Sustainability. In his current position, he works to increase interdisciplinary environmental research, and he is leading UCLA's Sustainable LA Grand Challenge - with goals of achieving 100% local water supply and 100% renewable energy in Los Angeles County while enhancing biodiversity and human health and wellbeing by 2050. To date, over 45 research projects involving over 75 faculty have been initiated. He was previously the Acting Director of the UCLA Institute of the Environment and Sustainability. Also, he was the long-time President of the environmental group, Heal the Bay. Mark received his Bachelors and Masters in Biology and his doctorate in Environmental Science and Engineering from UCLA. He has worked extensively over the last 30 years in the field of coastal protection, water management, and urban sustainability; he created Heal the Bay's Beach Report Card for the west coast of the U.S., and he has helped write numerous water quality, coastal protection, urban sustainability and environmental education laws and policies. Currently, he is a member of the Metropolitan Water District Board of Directors for the city of Los Angeles and Mayor Garcetti's Water Cabinet. Also, he serves on the California Clean Energy Jobs Act (Proposition 39) – Citizens Oversight Board.



Dr. Guoping Fan (范國平) is a professor in the Department of Human Genetics at the David Geffen School of Medicine, University California Los Angeles (UCLA) since 2001. He earned his bachelor's degree in Biochemistry from Nanjing University in China and his doctorate degree in Neuroscience from Case Western Reserve University. Dr. Fan pursued his postdoctoral training in molecular genetics and stem cells at the Whitehead Institute for Biomedical Research, Massachusetts Institute of Technology. His current research focuses on cell and gene therapy of eye diseases, animal models of human genetic disorders, and gene regulation in development. Dr. Fan has published original papers in the premier journals including *Nature*, *Science*, *Cell*, *Cell Stem Cell*, *Nature Neuroscience* and *PNAS*. His academic awards include Basil O'Connor Scholar, Carol Spivak Scholar in Neuroscience, and 2014 Royan International Research Award in Embryology and Biotechnology. Among the many professional activities, Dr. Fan has served as charted grant reviewer for US National Institute of Health, Maryland Stem Cell Research Program, Connecticut State Stem Cell Program, as well as National Natural Science Foundation of China.



Mr. Babu Kaza is a Senior Associate at Squire Patton Boggs. He received A.B. degree from Brown University and obtained his J.D. (cum laude) from Notre Dame Law School. Mr. Kaza focuses on investigations and white-collar criminal defense. He is a former attorney with the US Department of Justice (DOJ) National Security Division, Office of Intelligence. He worked closely with the Federal Bureau of Investigation and other government agencies to collect intelligence on suspected spies and terrorists, while ensuring compliance with all constitutional, statutory and court-ordered requirements. Before joining the DOJ, Mr. Kaza served on active-duty in the US Marine Corps, and is presently a Lieutenant Colonel in the Marine Corps Reserve. Mr. Kaza has served as a prosecutor, defense counsel, supervisory attorney and commander, and taught law as an adjunct professor at the Naval Academy. While deployed to Iraq, he was assigned to conduct critical investigations into allegations of friendly fire, detainee abuse and potential war crimes. Among his high-profile cases, Mr. Kaza prosecuted a senior officer for crimes related to the suicide of a Muslim recruit during basic training, and prosecuted a Naval Academy professor who engaged in sexual misconduct with students. As a defense counsel, he handled appellate litigation for the purported ringleaders of the Haditha and Hamdania killings, two of the most significant war crimes cases from the Iraq war, winning a full reversal in the Hamdania case of all convictions, including murder, and securing his client's release from prison.





## 2019 Business Innovation Forum Panelists



Dr. Yuan Gao is an innovator of translational technologies for next generation sequencing, non-invasive prenatal testing (NIPT), DNA methylation sequencing, and digital information storage in DNA. He is also a founder and President of Med Data Quest, Inc., developing clinical natural language processing and machine learning tools to aid precision medicine. He has a Bachelor of Bioscience from Beijing University, a Ph.D. in Computer Science from the Memphis University, completed his post-doctoral training with George Church at Harvard University, and most recently was an Associate Professor at Johns Hopkins University.



Dr. Wendy Hua is managing partner of Cybernaut US venture capital funds, with over 40 portfolio companies. Dr. Hua has more than 10 years of entrepreneurial and investment experiences with focus on finance, technology and healthcare industries.



Dr. Dongping Lin is Founding Partner, Guoqin Venture Capital. Dr. Lin has more than 20 years of experience in managing medical device companies and in designing medical technologies and devices and 5 years of experience in investment. He has extensive experience in corporation management, product development, intellectual properties, and regulatory affairs. Before co-founding a VC firm, Dr. Lin serviced as Chief Scientist, Deputy General Manager, Vice President, and Chief Engineer of Mindray Bio-Medical Electronics, Co., Ltd.; and Chief Intellectual Property Officer, Chief Software Architecture, and Chief Technical Officer of Cardiac Science, which he helped to build from his garage to NASDAQ national market. He helped many startups to become public companies and/or to be acquired. He led the development of many innovative and award-winning medical devices; and led and completed a major national scientific project. He published over 20 articles in the biomedical field; and obtained over ten patents. He made contribution to some national and international standards. Dr. Lin received his Ph.D. and Master degrees from the University of Michigan and Bachelor degree from Beijing Normal University.



Dr. Yongchun Tang is the director of the Power, Environmental and Energy Research Institute, formerly known as the Power, Environmental and Energy Research (PEER) Center at the California Institute of Technology. He was co-founder of the PEER Center at Caltech, which became an independent research institute in 2009. Dr. Tang has published over 100 papers. He served as consultant for many energy firms including Chevron, Shell, Exxon, BP, Conocophillips, Petrobras (Brazil), Saudi Aramco, ENI-Agip (Italy), Total (France), Devon, PetroChina, and China Petroleum Corporation (Taiwan). He was cofounder for several startup companies in USA and abroad.



Mr. Jin (Nate) Xiao, Director of Daddy's Choice in North America. Jin Xiao was born in Shanghai in 1986, is focusing on international business between North America and China, culture exchange of health, fitness and performance. He was an online host of "We the Shanghainess", "Powerful Trio", with Shanghai Media Group, 2004-2008; He was a project director of Shanghai Zhangjiang ZKJI Berkeley Engineering Center from 2011-2013, Co-founder of New York China Forum from 2014-Present. He is the Director of North America Daddy's Choice, LLC since 2017.





## 2019 CESASC Convention Dinner Gala & Awards Presentation

南加州中華科學學會第 57 屆年會晚宴

5:00 pm – 9:00 pm, April 14, 2019, San Gabriel Hilton

**Towards a Sustainable Tomorrow (南加州可持續的明天)**

5:00 pm	<b>Check-in and Social</b>	
6:00 pm	<b>Begin Banquet</b>	MCs: Ms. Theresa Lin/Mr. Vincent Fan
6:05 pm	<b>Welcome Remarks by CESASC President</b>	Dr. Hui Su
6:08 pm	<b>Remarks by Convention Chair</b>	Dr. Yu Gu
6:25 pm	<b>Remarks and Certificate Presentation by State Assembly Member Ed Chau</b>	
6:28 pm	<b>Remarks and Certificate Presentation by LA County Supervisor Kathryn Barger</b>	
6:31 pm	<b>Remarks and Certificate Presentation by Arcadia Mayor Sho Tay</b>	
6:34 pm	<b>Remarks and Certificate Presentation by San Gabriel Council Member Chin-Ho Liao</b>	
6:37 pm	<b>Remarks by San Gabriel Council Member and SG Hilton Director of Sales Juli Costanzo</b>	
6:40 pm	<b>Keynote Speech:</b> Project Manager of Mars 2020 Helicopter Project, JPL/Caltech <i>"Mars Helicopter Project"</i>	Ms. Mimi Aung
7:00 pm	<b>Keynote Speech:</b> Vice president of Transmission, Substations and Operations, SCE <i>"The Future of Energy"</i>	Mr. Erik Takayesu
7:20 pm	<b>Technical Symposium Summary</b>	Dr. Charley Lu
7:25 pm	<b>Business Innovation Forum Summary</b>	Dr. Bruce Liu
7:30 pm	<b>Guzheng: Croatian Rhapsody (古箏: 克罗地亚狂想曲)</b>	Ms. Laura Wang
7:35 pm	<b>Student Award Presentations</b>	
	<u>2019 CESASC Student STEM Essay Awards</u>	Mr. YiuMan So
	Stanley Liu, Peter Cheng, August Wetterau, Thomas Rife, Charles Liu, Henry Lin	
	<u>2019 Arts-Tech Poster Awards</u>	Dr. Ping Zhou
	Jason Liu, Carmen Liang, Irene Xue, Charlie Li, Jason Lin	
	<u>2019 CESASC Scholarship Awards</u>	Dr. Ping Zhou
	Tienshu Chang (張天澍), Jui Yi Chen (陳睿怡), Ruxi Dai (戴汝熙), Joseph Ong (王義居), Yongkui Tang (唐永燾), Peter Wang (王文佑), Jingyang Wu (吳婧洋), Zhuyun Xiao (肖竹韻), Jian Xu (徐鑑), Jonathan Yang (楊捷)	
8:00 pm	<b>Magic Show</b>	Mr. Zeyou Zhou
8:05 pm	<b>2019 CESASC Achievement Award Presentations</b>	Ms. Jill Long
	• Dr. Jason Cong, Mr. Erik Takayesu, Dr. Yitang Zhang, Dr. Carter Tseng*(lifetime in social impacts)	
8:35 pm	<b>Remarks and Certificate Presentation by Congresswoman Judy Chu</b>	
8:38 pm	<b>2019/20 CESASC Board Installation</b>	Congresswoman Judy Chu
8:43 pm	<b>Certification Presentation to Outgoing Board Members</b>	Ms. Dongmei Huang
	• Ms. Lan Saadantnejadi, Dr. Yutao He, Ms. Jill Long, Mr. Charles Wu	
8:47pm	<b>Matouqin: Reminiscence (馬頭琴: 回想曲)</b>	Ms. Laura Wang
8:51pm	<b>Game</b>	
8:54 pm	<b>2019/20 CESASC President Speech</b>	Dr. Ping Zhou
8:57 pm	<b>Closing Remarks</b>	Dr. Hui Su

*Floor Managers: Drs. Kenny Wang, Jonathan H. Jiang, Jason Wen*



## The 57<sup>th</sup> CESASC Convention Keynote Speakers



### **Mars Helicopter Project**

**Ms. Mimi Aung**  
Project Manager for Mars 2020 Helicopter Project  
Jet Propulsion Laboratory  
California Institute of Technology

Ms. Mimi Aung is the Project Manager for Mars Helicopter at the NASA Jet Propulsion Laboratory (JPL), California Institute of Technology. She has led the multi-disciplinary team that developed the small autonomous rotorcraft to perform the first time ever demonstration of aerial flight in the very thin atmosphere at Mars. Mars Helicopter is planned for launch onboard NASA's Mars 2020 Rover in July of 2020. Ms. Aung has B.S. and M.S. degrees in Electrical Engineering from University of Illinois at Urbana-Champaign. At JPL, she has engaged in multiple areas of space exploration, including space flight projects, Deep Space Network, technology development for autonomous systems, and technical line management.



### **The Future of Energy**

**Mr. Erik Takayasu**  
Vice President for Transmission, Substations and Operations  
Southern California Edison

Mr. Erik Takayasu is Southern California Edison's Vice President for Transmission, Substations and Operations. He's responsible for all substation and transmission construction, maintenance, and grid operations. He's been with SCE for more than 26 years and has held multiple leadership positions at SCE including Distribution Engineering, Electric System Planning and Grid Operations. He is a member of the IEEE Advisory Board of the Power and Engineering Society, a Board member for Leadership Education for Asian Pacific, and serves on multiple technical advisory committees.



## 2019 CESASC Lifetime Achievement in Social Impacts Award Recipient

### Dr. Carter Tseng



Dr. Carter Tseng has over 36 years of valuable experience in the high-tech industry. He was a co-founder of Microtek in 1980, the world class leader in the Image Scanner industry, one of the first and most successful IPO companies based in the prestigious Taiwan Science Park. Since retiring from active corporate management in 1998, Dr. Tseng has drawn on his rich experience and turned his attention to coaching and mentoring the CEO's of tomorrow, as well as serving on the advisory boards of many enterprises.

Prior to returning to Taiwan in 1980, Dr. Tseng worked for USA based companies such as Lockheed and Xerox where he held increasingly responsible positions in such areas as system design, technical marketing and Hi-Tech enterprise management. As a skillful negotiator, Dr. Tseng used his skills and entrepreneurial talents to secure many highly lucrative OEM, ODM, and distribution contracts with large globally recognized companies such as Siemens, Philips, Hitachi, GEC, Panasonic, Rockwell, and NEC.

Dr. Tseng has been founder & CEO of the Little Dragon Foundation, whose mission is to guide entrepreneurs of tomorrow. At the same time, he has also held seats on the boards of several Hi-Tech technology enterprises, and educational organizations. He continues to serve as Independent Director of TCL, Overseas Director of Canada National Institute of Nano-Technology, and Board of Director of China National Academy of Nano-Technology & Engineering.

Dr. Tseng is a Director of the USA-based "Committee of 100", Board of Trustee of Give2Asia Foundation, and is Co-founder of ECO Foundation for environment. He is the special advisor to Tsinghua University President, and EMBA & CEO Training Professor. He also serves as Business Advisory Council (BAC) member for the University of Alberta, Canada. His academic posts have included Adjunct Professorships at City University of Hong Kong, University of Alberta (Canada). He is also a Co-founder of Monte Jade Science & Technology Association (USA).

Dr. Tseng received the "2004 Distinguished Achievement Award" from Chinese Institute of Engineers (CIE) - USA in recognition of his "pioneering work and leadership in high-tech industry" and "contribution in education on industrial management"; was invited by USA give2Asia Foundation as Board of Trustee. In 2008, Dr Tseng received the National Friendship Award, the highest recognition granted to foreign experts in China.



## 2019 CESASC Achievement Award Recipient

### Dr. Jason Cong



Dr. Jason Cong received his B.S. degree in computer science from Peking University in 1985, his M.S. and Ph. D. degrees in computer science from the University of Illinois at Urbana-Champaign in 1987 and 1990, respectively. Currently, he is a Chancellor's Professor at the Computer Science Department of University of California, Los Angeles, the Director of Center for Domain-Specific Computing (funded by NSF Expeditions in Computing Award), and the Director of VLSI Architecture, Synthesis, and Technology (VAST) Laboratory. He served as the chair of the UCLA Computer Science Department from 2005 to 2008.

Dr. Cong has published close to 500 research papers in areas of electronic design automation, energy-efficient computing, customized computing for big-data applications, and highly scalable algorithms. He has been elected to IEEE Fellow in 2000 for “for seminal contributions in computer-aided design of integrated circuits, especially in physical design automation, interconnect optimization, and synthesis of FPGAs”, ACM Fellow in 2008 “for contributions to electronic design automation”, Member of National Academy of Engineering in 2017 “for pioneering contributions to application-specific programmable logic via innovations in field programmable gate array (FPGA) synthesis.”

Dr. Cong is a successful serial entrepreneur, Founder of Aplus Design Technologies (1999 – 2003), a co-founder and the chief technology advisor of AutoESL Design Technologies (2006-2011), a co-founder and the chief scientist of Neptune Design Automation (2011-2013). All were acquired by leading public companies in his field. He has also served on the Technical Advisory Board of a number of EDA and silicon IP companies, including Atrenta (acquired by Synopsys in 2015), eASIC, Get2Chip (acquired by Cadence in 2003), Magma Design Automation (acquired by Synopsys in 2012), Microsoft Research Asia (MSRA), and currently as the founder and the chief scientific advisor for Falcon Computing Solutions.

Dr. Cong has graduated 36 PhD students over time; all have continued to successful careers in industry and academics (such as Cornell, Georgia Tech, Purdue, UCLA, UIUC, and UT Austin).



## **2019 CESASC Achievement Award Recipient**

### **Mr. Erik Takayesu**



Mr. Erik Takayesu is Vice president of Transmission, Substations and Operations in the Transmission and Distribution (T&D) organization at Southern California Edison (SCE). He is responsible for all substation and transmission construction and maintenance, as well as transmission and sub-transmission grid operations, including system performance, reliability, compliance, and emergency response and restoration.

Mr. Takayesu has worked at SCE for more than 26 years. Most recently, he served as managing director, Integrated Innovation & Modernization, responsible for developing the company's strategy and technical capabilities for the future electric system to meet the state's ambitious goals to reduce greenhouse gas emissions. Mr. Takayesu also has overseen SCE's grid technology research and development, leading to major investments and programs for the company's grid modernization efforts. He has also held multiple leadership positions during his career at SCE including Distribution Engineering, Electric System Planning and Grid Operations.

Mr. Takayesu is a member of the IEEE Advisory Board of the Power and Engineering Society, a Board member for Leadership Education for Asian Pacifics, and serves on multiple technical advisory committees.

Mr. Takayesu earned a bachelor's degree in electrical engineering at California State University, Long Beach, and master's degree in organizational leadership at Gonzaga University.



## 2019 CESASC Achievement Award Recipient

### Dr. Yitang (Tom) Zhang



Dr. Yitang Zhang received his B.S. and M.S. degrees in mathematics from Peking University, Ph. D. degree in mathematics in Purdue University. Currently, he is a professor at the Department of Mathematics, University of California, Santa Barbara. While working for the University of New Hampshire as a lecturer, Dr. Zhang submitted an article to the *Annals of Mathematics* in 2013 which established the first finite bound on the least gap between consecutive primes that is attained infinitely often. The proof was refereed by leading experts in analytic number theory. Dr. Zhang's result set off a flurry of activity in the field.

Dr. Zhang was awarded the 2013 Morningside Special Achievement Award in Mathematics, the 2013 Ostrowski Prize, the 2014 Frank Nelson Cole Prize in Number Theory, and the 2014 Rolf Schock Prize in Mathematics.

Dr. Zhang is a recipient of the 2014 MacArthur award, and was elected as an Academia Sinica Fellow during the same year. He was an invited speaker at the 2014 International Congress of Mathematicians.



## 2019 CESASC Banquet Gala Program Masters of Ceremony



Ms. Theresa Lin (林慧懿) is Catering Director of Manhattan Hotel Groups, Chairman of Chinese Restaurant Foundation, TV, Radio host/ Food Critic, and Food Stylist of Ang Lee's Movie "Eat, Drink, Man and Woman". She is also the Catering Director of movie "Life of PI" and Catering Director of Martin Scorsese's movie "SILENCE".

林慧懿女士是美國曼哈頓旅館集團餐飲總監, 美國中餐發展基金會首任會長, 電視廣播主持人/食評作者. 李安電影“飲食男女”美食設計總監(1994), 電影“少年PI 奇幻漂流記”餐飲總監 (2011), 電影“沉默”餐飲總監 (2015).



Mr. Vincent Fan (范守文) is from Taipei. He has been in media, as reporter, anchor, producer, marketing manager, and channel director, for over thirty years. Vincent has been with ETTV media group in Taiwan since 1995. He came to set up ETTV America in 2002, witnessed the rise and fall of traditional tv, and tried to survive from those shocking innovations of new media., But he never gives up his interest in radio, which he even loves more, and is still doing radio show as program host and producer. Vincent was in Shanghai for about two years during 2009-2010, not in media, but working for a jewelry group as branding/marketing manager. Having been living and working in Taipei, Shanghai,

and LA, Vincent always has an open heart in adapting to new environment and challenges. Now Vincent works mainly for Asian Americans Advancing Justice-LA, the largest non-profit organization in US, as the head Chinese media consultant. He loves to be the bridge for US main stream and Chinese community, via video, radio show, papers column, and many other possible means.

范守文先生是洛杉磯中文廣播電台製作人兼主持人, 洛杉磯華語電視台多元文化集團 MCG 台長 行政管理與業務行銷, 亞美公義促進中心(洛杉磯)華文媒體首席顧問.



## 2019 CESASC Convention Performers



Mr. Zeyou Zhou, famous Hollywood magician. In 1990, Mr. Zhou entered the American magic art world through hard work and self-study. 1996, he graduated from Magic Castle, a famous magic school in Hollywood, and participated in the filming of "Broadway 100". He was introduced to the "World Window" stage in Shenzhen, China, and performed with famous actors from all over the world. Mr. Zhou often travels to and from China and the United States, performing with the stars, such as Ma Ji (马季), Jiang Kun (姜昆), and other famous comic actors, and Fei Xiang 费翔, Chen Lin 陳琳, and other singers. Performed

at the "Genting" Casino in Malaysia in Southeast Asia, "Heaven and Earth" in Taipei, Taiwan, the "Bicycle" in the United States, "Casino" in Hawaii, and the Tsingtao Brewery in China. He also has a magic performance tour from Tibet to Hainan, and from Inner Mongolia to Xinjiang. So far, dedicated a lifetime to the magic cause, bringing unlimited happiness to the audience!

周澤友，著名好萊塢魔術師。周先生 1990 年通過努力自學，進入美國魔術藝術界。1996 畢業於好萊塢著名魔術學院 Magic Castle，同時參加《百老匯 100 號》電影拍攝，被邀請到中國深圳《世界之窗》大舞臺，與來自世界各地著名演員同臺演出。周先生經常往返於中美兩地，與明星們，如馬季、姜昆等著名相聲演員，費翔、陳琳等歌星同臺演出。他曾在東南亞的馬來西亞“雲頂”賭場、臺灣台北“天上人間”、美國“Bicycle”、夏威夷“Casino”賭場，中國青島啤酒節演出。他還在全國從西藏到海南，從內蒙到新疆巡迴演出。他把一生獻給魔術事業，給觀眾帶來無限的快樂！



Ms. Laura Wang (18-year-old) is in the 12th grade at the Bishop Montgomery High School in Los Angeles. Laura began to learn Guzheng from the age of five. She has participated in various large-scale Guzheng competitions and won numerous awards. She won the Guzheng Special Gold Award in the 2010 China Youth Art Special Finals. In 2011, she won the top 10 certificate of Guzheng. in Los Angeles In 2017, she performed at the Olympic evening gala at the Los Angeles Olympic Memorial Stadium. She has been participating in the performances at the nursing home the major communities, and the church for many years. She has been the most popular actor in the Spring Festival Evening of

every Chinese community. She started to learn Mongolian musical instruments Matouqin in 2011. After going through many Mongolian teachers' guidance and training, she finally became a student of 仟栢乙拉, a Chinese national level Matouqin master. Under the strict training of the top master, Laura experienced rapid advance in her Matouqin skill, and has reached a high level of performance. She participated in competitions and large-scale performances, which were well received and praised by the audience, and won the prize in the 2018 International Culture Angel Festival.

王中樂，今年 18 歲，就讀於洛杉磯 Bishop Montgomery High School 12 年級。Laura 從五歲開始學習古箏，多次參加各種大型古箏比賽並屢次獲獎，在 2010 年中國青少年藝術特長總決賽中榮獲古箏專業特金獎，2011 年考取古箏最高級別十級證書，2017 年在洛杉磯奧林匹克紀念體育館舉辦的“精彩奧運，唱響和平”大型晚會上表演。常年參加老人院，各大社區，教會義演，是每屆華人各大社區春晚最受歡迎的演員。從 2011 年開始學習蒙古樂器馬頭琴，歷經了多位蒙古老師的指導和培訓，最後拜師於中國國家一級馬頭琴大師仟栢乙拉，在頂級大師嚴格高壓訓導下琴藝突飛猛進，已達到較高的演奏水平，近幾年多次參加比賽和大型表演，深受觀眾喜愛和好評，在 2018 年國際文化天使節中獲獎。



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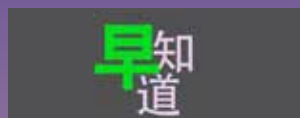
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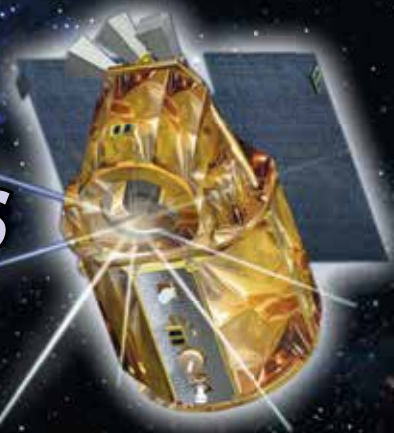
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# 好奇學生 大哉問 直播節目

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# Raytheon





CESASC Presidents' Reunion Luncheon, September 9, 2018 in Szechwan Restaurant, Lomita, CA

## **Congratulations on CESASC 57<sup>th</sup> Convention from CESASC Presidents (1962-2019)**

- |                             |                            |
|-----------------------------|----------------------------|
| 1962 Henry Chi (戚文祥)        | 2004 Shirley Ho (張翠姝)      |
| 1976 Peter Dai (戴廣勳)        | 2005 Shan Lee (李珊)         |
| 1987 Sherman Yu (于善元)       | 2006/07 Sikun Lan (藍思堃)    |
| 1988 Chih-Ming Ho (何志明)     | 2011 Jason Wen (溫俊山)       |
| 1989 Wei H. Kao (高為雄)       | 2012 Yutao He (何宇滔)        |
| 1991 Catherine Kwan (寧克嘉)   | 2013 Liping Yan (顏利平)      |
| 1992 George Chao (趙家鈞)      | 2014 Dankai Liu (劉登凱)      |
| 1994 Eastwood Im (嚴貴方)      | 2015 Yue Rong (容躍)         |
| 1995 Kung Yao (姚琨)          | 2016 Lan Saadatnejadi (茹蘭) |
| 1996 Elizabeth Kay-Im (郭怡珊) | 2017 Dongmei Huang (黃冬梅)   |
| 1998 Munson Kwok (郭民生)      | 2018 Hui Su (蘇慧)           |
| 1999 William Chang (張靖生)    | 2019 Ping Zhou (周平)        |



## **Congratulations on CESASC's 57<sup>th</sup> Convention**

We thank

**Dr. Carter Tseng**

for his informative keynote speech and his inspiration to all CESASC members.

We congratulate

**Dr. Jason Cong & Dr. Yitang Zhang**

for their extraordinary contributions to science & technology.

We congratulate

**Mr. Erik Takayesu**

for his excellence in corporate leadership and thank him for informative key speech.

CESASC Founding President

**Henry and Lois Chi**

**North America Career Express Association**

北美国际青年公益发展促进会

[www.careerexpressus.org](http://www.careerexpressus.org)



**Los Angeles, Irvine, San Diego, San Francisco, New York City, Philadelphia, Washington DC, Seattle**

**NACEA** 北美国际青年公益发展促进会（曾用名：北美职通车），2014 年成立于加州洛杉矶是美国联邦和加州政府注册的 501(c)3 非营利组织，专注于通过社区服务与公益慈善活动帮助青年移民和国际学生迈出职场第一步，分享师兄师姐的公益体验以及求职经验，并提供相应的法律援助。**NACEA** 自 2016 年设立了国际优秀青年公益奖学金，希望鼓励更多优秀的国际青年志愿者参与社区服务；并建立国际学生家庭关爱基金，为那些孩子在海外被刑事杀害的国际学生家庭提供援助以及心理康复领域的帮助。2018 年启动青年公益社区 SEL，致力于帮助更多青年志愿者成为国际社区的领袖人才。

North America Career Express Association (NACEA) has operated as an officially registered 501(C)3 non-profit organization since 2014. NACEA encourages multicultural young professionals and international students to volunteer for community service projects conducted by non-profit organizations. NACEA delivers the most up to date career and legal information for young professionals and international students. NACEA is proud to provide the "Outstanding International Volunteer Scholarship" for students who deeply engaged into community service and the "Love and Care Fund for International Students' Families," to support those families, who lost their children to criminal violence overseas. Beginning in 2018, NACEA launched "The Society of Emerging Lights," a community service leadership platform. NACEA's mission is to cultivate positive mindsets and lifestyles among young professionals and international students to empower them to better serve their local communities. NACEA's slogan is, "We love. We care."





**CESASC**  
南加州中華科學會



**CAL STATE LA  
CHINESE AMERICAN  
ORAL HISTORY PROJECT  
IN COLLABORATION WITH  
CESASC**



**Collecting and archiving the oral histories  
of Chinese American engineers and scientists  
in Los Angeles and the San Gabriel Valley**

**WWW.CALSTATELA.EDU/CAOHP**

By collecting the oral histories of Chinese Americans in the San Gabriel Valley, we aim to not only preserve their life stories, but use their experiences to examine the cultural shifts and formation of new ethnic enclaves in this multicultural region of Los Angeles.

*This collaborative project between the Asian/Asian American Studies, University's Special Collections & Archives, and the Chinese-American Engineers and Scientists Association of Southern California Scholarship Foundation serves to boost student success through civic engagement; to strengthen the ties between the campus and our community; and to designate Cal State LA as a distinctive site for documenting the contributions of Chinese American engineers and scientists in southern California.*



Oral History Program  
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## **CESASC Scholarship Foundation**

Annually, the CESASC Scholarship Foundation funds the CESASC scholarship program to encourage students to pursue science and engineering, including medicine and economics.

### ***Endowments***

**Mrs. Hsu Hwa Chao Memorial Scholarships**

**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**

**Dr. Jiin-Jen and Mrs. Sage Lee Scholarships**

**Tsai-Sun and Cho-Seng Chien Lee Memorial Scholarships**

**The Anna and John J. Sie Foundation Scholarships**

**Grace Yu Memorial Scholarships**

**Prof. June Chien Yu-Tsao Yu Memorial Scholarships**

**We thank all our Donors and Supporters.**

**Special Thanks to**

**Southern California Edison**

The CESASC Scholarship Foundation funds ten \$1,000 **CESASC Scholarships** being awarded on April 14, 2019.

**Our 2019 Scholarship Program is dedicated in loving memory to**

**Professor Lois Chi**

**CESASC Co-Founder and Foundation Endowment Sponsor**

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" and send to M. Kwok, 5474 West 76th Street, Los Angeles, CA 90045-3208. Further information may be obtained from Eastwood Im, president, or Munson Kwok, treasurer of CESASC Scholarship Foundation.

Officers of the CESASC Scholarship Foundation are: Shan Lee, Board Chair; Eastwood Im, President; Shirley Ho, Vice President; Jiin-Jen Lee, Secretary; Munson Kwok, Treasurer; Hui Su and Ping Zhou, Directors; Manwai Szeto, Assistant Treasurer.





## 2019 CESASC Scholarship Recipients



**Tienshu Chang** 張天澍

Ph.D. student, Structural Mechanics, UCLA

Completed B.S. degree and M.S. degree in Civil Engineering at National Cheng Kung University. Research interests focus on the mechanics of structural materials, such as damage mechanics and micromechanics. Career plan is to find a faculty position in a university and contribute to the improvement of housing safety for people and disseminate useful technical information for design professionals.

***CESASC Foundation Scholarship***



**Jui Yi Chen** 陳睿怡

Ph.D. student, Biomedical Engineering, UC Irvine

Received master's degree from National Tsing-Hua University from Taiwan. Her research interest is microfluidic and cancer immunotherapy. She has a passion for education and nature, and want to pursue a faculty career in the future to dig deeper into research and to inspire more young students by the wonder of nature.

***Prof. Lois Chi Memorial Scholarship***



**Ruxi Dai** 戴汝熙

Ph.D. student, Chemistry and Biochemistry, UCLA

Ruxi's research is focused on the synthesis of organometallic catalysts for making better biodegradable plastic, as a potential solution to the worldwide "white pollution" issue. He would like to make efforts to solve environmental issues with his scientific background after obtaining his doctor's degree.

***CESASC Foundation Scholarship***



**Joseph Ong** 王義居

Ph.D. student, biochemistry and molecular biology, UCLA

Completed undergraduate studies in chemistry at the University of Notre Dame, conducting research in evolutionary biology, natural products isolation, and muscle stem cell biology. Currently studies how proteins regulate cell cycle progression and cell division with the goal of leading his own research team at a major university. In his free time, Joseph is a science writer for UCLA's newspaper and plays guitar.

***CESASC Foundation Scholarship***



**Yongkui Tang** 唐永堦

Ph.D. student, Electrical Engineering, USC

Obtained B.S. degree in Microelectronics from Peking University. His research is mainly focused on microfabricated focusing ultrasonic transducers and their applications in biomedical fields such as tumor treatment and neurostimulation. His career plan is to combine the power of micro/nanotechnology and ultrasound to improve current biomedical systems and explore new applications, methods and materials. In his spare time, he plays classical guitar and collects rock records (vinyl, CDs and cassettes), some of which are rare, out-of-print.

***CESASC Foundation Scholarship***





## 2019 CESASC Scholarship Recipients



**Peter Wang** 王文佑

Undergraduate student, Chemical Engineering, UCLA

Peter's research is with Dr. Chih-Ming Ho and Prof. Dean Ho which focuses on developing CURATE.AI, an artificial intelligence platform that optimizes combination therapy for oncology, and developing nanodiamond drug delivery system. He wants to be a professor in biomedical engineering and continue innovative research that solves biomedical challenges.

*Edison STEM Scholarship*



**Jingyang Wu** 吴婧洋

Undergraduate student, Aeronautics & Astronautics, University of Washington

She had studied abroad in Australia, Japan, and France in past years. Her academic interests are in space systems and exploration with a specific focus on CubeSat and satellite constellation. Her ultimate dream is to work on cutting-edge aerospace projects which enhance human's ability to explore the space, so she will continue working hard for master and PhD degrees after graduation. She is the co-founder and the outreach coordinator of UW Han Traditional Chinese Culture Club.

*CESASC Foundation Scholarship*

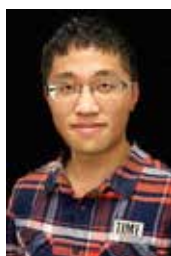


**Zhuyun Xiao** 肖竹韵

Ph.D. student, Electrical and Computer Engineering, UCLA

She is spending this academic year at the Lawrence Berkeley National Laboratory as an ALS Doctoral fellow in residence working with Senior Scientist Elke Arenholz. She graduated from UCLA with a Master's degree in ECE, and from Bryn Mawr College with a BA in Physics and minors in Computer Science and French. Her research work involves multiferroics materials and devices. In her spare time, she enjoys reading philosophy, playing ukulele and going on road trips.

*Anna and John Sie Foundation Scholarship*



**Jian Xu** 徐鉴

Ph.D. student, Electrical Engineering, Caltech

Graduated from Zhejiang University with a Bachelor degree in Optical Engineering. Currently he uses non-invasive optical methods, which have ultra-high sensitivity compared to conventional methods, to detect the activities of brains. His career dream is to finally turn the technologies he is developing into real products to benefit more people.

*CESASC Foundation Scholarship*



**Jonathan Yang** 楊捷

Undergraduate student, Chemistry, University of California, Berkeley

He joined John Hartwig's lab in 2018, where he is now investigating new transition metal catalyzed reactions to make fluorinated molecules; these new reactions have utility in the future design and synthesis of pharmaceuticals. He plans on continuing chemistry research in graduate school and pursuing a career in academia.

*Edison STEM Scholarship*



2019 CESASC

## STEM | ESSAY CONTEST WINNERS

Future Technology that Can Improve Human Life

Student

[Group 2 : Grade 9-12]



**First Place: Stanley Liu**

Title: *An Integrated Microfluidic Device for Blood Plasma Separation and Disease Diagnostics*

Grade: 10

Arcadia High School

Arcadia, California



**Second Place: Peter Cheng, August Wetterau, Thomas Rife**

Title: *Seeing Reality*

Grade: 9

Eleanor Roosevelt High School

Eastvale, California



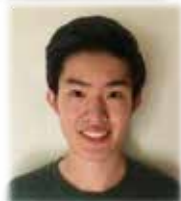
**Third Place: Charles Liu**

Title: *Location Reminder and Memory Helper*

Grade: 9

South Pasadena High School

South Pasadena, California



**Honorable Mention: Henry Lin**

Title: *Waste Heat Collector*

Grade: 11

San Marino High School

San Marino, California

### 2019 Essay Contest Support Team and Appreciation

My deepest appreciation to all the judges who volunteered their valuable time to evaluate and rank all the essay entries. The CESASC STEM Competition cannot be accomplished without their kind support. The judges are: Rita Chuang(Orthodontics), Jonathan Jiang (JPL), Jonathan So (Programmer), Mason Tam (Raytheon Principle Engineer).

My special appreciation goes to Perceiver Education for their earnest support our STEM workshops.

It is a great honor that the CESASC STEM team have the opportunity to nurture the youngsters through the CESASC STEM program over many years. These brightest youngsters are our future scientists, technologists and leaders in STEM and beyond. We will keep watch on their development with the greatest joy.

Yiu Man So  
Chief Engineer  
Epirus Systems,  
CESASC 2010-2011  
Elected President

Rita Chuang  
Board-Certified Orthodontist  
Breeze Orthodontics

Jonathan Jiang  
Principal Scientist  
Jet Propulsion Laboratory  
California Institute of Technology





## 2019 Arts-Tech Poster Contest



To promote the fusion of arts and science/technology, CESASC and Cultural Foundations of Zhendai He USA (CFZH) jointly launch the 1<sup>st</sup> Arts-Tech Poster Contest. The contest is open to all students and post-graduates within 2 years' highest degrees. Each contestant is required to create a poster of 18" (wide) x 24" (height) integrating innovative technologies for sustainability and cultural and arts elements related to the Palace Museum (北京故宫) or Mogao Caves (敦煌莫高窟).

### Cultural Foundations of Zhendai He USA (何振岱文化研究美国基金会)

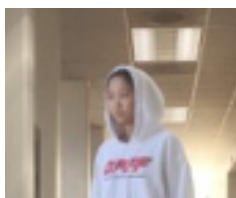
Established in 2016, The Cultural Foundations of Zhendai He USA is a 501(c)3 non-profit and non-political organization registered in California. The mission of the Foundation is to promote the traditional Chinese culture and art, to share Chinese cultural essence around the world, and to become a cultural bridge by blending the traditional legacies with modern innovations. "Chinese culture, World Express." Using the world's common expressions to spread the Chinese culture to the young generations, is the Foundation's way to attract more and more youth to appreciate their roots in Chinese culture and benefit them by incorporating the cultural elements into their daily lives. The Foundation aims to host major philanthropic events each year in different countries. These events will not only cultivate the roots of cultural sensitivities, but also contribute to nourish societal peace and prosperity.

Zhendai He (1867 – 1952) was a renowned poet, modern scholar of classic literature, expert of local chronicles, and master of traditional Chinese poetry. He was the best exemplary of the old style of poetry, so called the Tong-Guang-Ti, a modern branch of Min (Hokkien). For generations, Mr. He's family motto—"hard-working will always be rewarded. Envy no one's luck, because everyone is blessed in a unique way," has inspired his descendants of four generations around the world. Ms. Xinyan He (何欣晏), a 4<sup>th</sup> generation descendant of Zhendai He, has been deeply influenced by the profound cultural essence revealed in her ancestor's work, established the Cultural Foundations of Zhendai He USA to promote the Chinese Culture and Art.

## WINNERS



1<sup>st</sup> Place: **Jason Liu**  
Grade: 8  
Arcadia Christian School



2<sup>nd</sup> Place: **Carmen Liang**  
Grade: 8  
Martha Baldwin School



2<sup>nd</sup> Place: **Irene Xue\***  
Grade: 5  
Clairbourn School



3<sup>rd</sup> Place: **Charlie Li\***  
Grade: 8  
Dana School



3<sup>rd</sup> Place: **Jason Lin\***  
Grade: 9  
Gabrielino School

\*Also students at West California Academy of Art and Design 汪老師美術學院

## PANEL OF JUDGES



**Xiaogang Wang**  
Art Director of  
Cultural Foundations  
of Zhendai He USA



**Xinyan He**  
Founder of Cultural  
Foundations of  
Zhendai He USA



**Ping Zhou**  
President-Elect of  
CESASC





The honorable John Chiang spoke at the CESASC annual convention (4/2018)



CESASC annual convention lunch speakers (4/2018)



CESASC Community Service Award presentation (4/2018)



CESASC Student Scholarship Award presentation (4/2018)



CESASC former presidents photo op (4/2018)



CESASC annual convention press conference (4/2018)



CESASC attending Joint Chinese U. Alumni Association 40 yr anniversary celebration (11/2018)



CESASC attending Los Angeles Environmental Forum (8/2018)





CESASC Exhibition at SoCal Innovation Forum (10/2018)



CESASC and PlusYoo co-hosted AI Salon (11/2018)



Dr. Jonathon Jiang enlightened STEM students (11/2018)



Former president Yiuman So spoke to middle school STEM students (3/2019)



Dr. Hui Su and Dr. Peter Zhang invited to speak at the American Professional Association (2/2019)



CESASC and SCCAEP participated in beach cleanup (10/2018)



Left: Former president Dr. Yue Rong in his book signing ceremony (8/2018)  
Right: Former president Dr. Dankai Liu spoke on Mars project (3/2019)



CESASC Holiday Party in Irvine (12/2018)



## Chinese-American Engineers and Scientists Association of Southern California

南加州中華科工學會 (CESASC)

[www.cesasc.org](http://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 Historymaker's Awards Ceremony.

### CESASC Achievement Awards

Since 1969, CESASC has presented Achievement Awards to recognize the individuals who have made significant contributions to engineering and science, or those with distinguished professional career in the United States. 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, as well as 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, 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.

### 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 including China, Hong Kong, Taiwan, Singapore and Thailand. In acknowledgement of the contributions to these international cooperation programs, CESASC was recognized by the late Congressman George E. Brown, Jr., former Chairman of the House Committee on Science and Technology of the US Congress, during his Keynote address at CESASC's Technical Symposium in 1994.





## CESASC Former Presidents

1962 Henry Chi (戚文祥)	1981 Han C. Leung (梁漢宗)	2000 Sheng-Rong Lin (林勝榮)	2018 Hui Su (蘇慧)
1963 Norman Au (區毅民)	1982 Sui-An Fung (馮綏安)	2001 Edward Liu (劉漢忠)	
1964 Tung-Hua Lin (林同驊)	1983 Shih Y. Chen (陳仕元)	2002 Edward Liu (劉漢忠)	
1965 C. M. Wong (王頌明)	1984 Frank Wang (王鴻恩)	2002 Charles Wang (王啟明)	
1966 Frederick Liu (劉繼福)	1985 Chieh Sun (孫黔)	2003 Charles Wang (王啟明)	
1967 Theodore Wu (吳耀祖)	1986 Shui-Lin Chao (趙瑞麟)	2004 Shirley Ho (張翠姝)	
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1969 Lewis Au (區鯉騰)	1988 Chih-Ming Ho (何志明)	2006 Sikun Lan (藍思堃)	
1970 Wellington Loh (陸孝同)	1989 Wei H. Kao (高為雄)	2007 Sikun Lan (藍思堃)	
1971 Paul Yeh (葉霽)	1990 Edward Liu (劉漢忠)	2008 David K. Lee (李嘉民)	
1972 Paul Leung (梁佩璐)	1991 Catherine Kwan (寧克嘉)	2009 Wensheng Zhou (周文生)	
1973 Tung Po Lin (林同坡)	1992 George Chao (趙家鈞)	2010 Yiu Man So (蘇耀民)	
1974 Steven Tang (唐紹曾)	1993 T. J. Wang (王泰傑)	2011 Jason Wen (溫俊山)	
1975 K. C. Chiang (蔣光祺)	1994 Eastwood Im (嚴貴方)	2012 Yutao He (何宇滔)	
1976 Peter Dai (戴廣勳)	1995 Kung Yao (姚琨)	2013 Liping Yan (顏利平)	
1977 John Chan (陳乃豪)	1996 Elizabeth Kay Im (郭怡珊)	2014 Dankai Liu (劉登凱)	
1978 Shou S. Kwong (鄭紹堃)	1997 Tientsai Yang (楊添才)	2015 Yue Rong (容躍)	
1979 Charles P. Wang (王正平)	1998 Munson Kwok (郭民生)	2016 Lan Saadatnejadi (茹蘭)	
1980 Tennyson Wang (王漢聲)	1999 William Chang (張靖生)	2017 Dongmei Huang (黃冬梅)	

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Chan, Steven	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, Jiin-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, Dankai	Teng, Evelyn	Yin, Mingsong
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Chen, Shiuuan	Huang, George Y.	Liu, Edward	Tsai, Mark F.	Yu, Sherman
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Chen, Y. Kenneth	Huang, Sheng-He	Liu, Robert W.	Tsiang, T. H.	Zhai, Endi
Chi, Henry W.S.	Hui, Angela	Liu, Wai-Min	Tso, Jin (Sharon)	Zhang, Peter
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Chiang, Albert C. L.	Im, Eastwood	Loh, W. H. T.	Wang, Li-Jean	Zhu, Konrad S.
Chiang, Martin				



## In Memory of Dr. Lois Wang Chi (戚王爾樂)

By CESASC Board of Directors  
April 14, 2019

Dr. Lois Wang Chi (戚王爾樂) passed away on April 6, 2019 at the age of 97. She is the wife of Henry W. S. Chi (戚文祥), Founding President of CESASC. Lois and Henry co-founded CESASC over 57 years ago.

Lois was an accomplished scientist, a devoted wife, a lovely mother, and a passionate community servant. She was a CESASC Achievement Award recipient in 1973. In her 97 years of life, she had demonstrated what a woman of noble character is like. She wrote a book entitled “Echoes of Voices Just Won’t Go Away” about her life. She had inspired and will continue to inspire all of us.

We are deeply saddened by the passing of Lois. We would like to extend our deepest condolences to Henry and all Lois’ family members. Lois’ great contributions to CESASC will be remembered forever. May our beloved Dr. Lois Wang Chi rest in peace!







## ACKNOWLEDGEMENTS

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