



南加州中華科學會

Chinese-American Engineers and Scientists Association of Southern California

Since 1962 in USA



56TH

2018:

WE ARE CONNECTED

CESASC
Anniversary Journal

Lunch Keynote

Technical Symposium

Scholarship

STEM Workshop

Business Contest

Award Ceremony

Evening Gala

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Since 1962

南加州中華科工學會

Chinese-American Engineers
and Scientists Association of
Southern California

CESASC
www.cesasc.org

WELCOME MESSAGE

From CESASC President 2017-2018
April 14, 2018

Dear Friends and Colleagues:

Welcome to the 56th CESASC Annual Convention at Pacific Palms Resort, City of Industry, 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 our theme is "**We Are Connected**", featuring communications, social networking, and entertainment.

Today's program features executives from Qualcomm, Firefly Games, JPL, IBM, scholars from UC Riverside, USC, UCLA, and many more. They are presenting rich content that inspires all. This year again we have received numerous outstanding applications for scholarship, STEM essay contest, and business innovation competition. Thanks to our judging committees who spent a lot of time and efforts to accomplish the challenging task of choosing the winners. We have selected Dr. Xuemei Chen, Distinguished Professor of Plant Cell and Molecular Biology of UC Riverside, and Dr. Fuk Li, Director for the Mars Exploration Directorate of NASA Jet Propulsion Laboratory, as our prestigious Achievement Awardees as they have exemplified excellence in the engineering and science fields. Mr. Shan Lee, Chairman of Board of CESASC Foundation is the Service Awardee for his years of volunteering service at CESASC. The very special Trailblazer Award is presented to California State Treasurer John Chiang for his outstanding community service and continuous support to CESASC. Congratulations to all the winners and awardees!

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.

Welcome to join us! Hope you enjoy this wonderful day and wish you all the best!

Sincerely,

Dongmei Huang
President of CESASC



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

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(626) 304-0132 (Fax)

April 14, 2018

CESASC
1277 Hillside St.
Monterey Park, California 91754

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 56th Annual Convention.



The Chinese-American Engineers and Scientists Association of Southern California (CESASC) has been positively impacting the fields of Science, Technology, Engineering, and Mathematics. The 56th Annual Convention, with its focus on recognizing the leading science and engineering professionals, is a platform to provide career and educational enhancement opportunities, technical exchange, and fellowship of community service. These individuals are making history, and through recognition and unrelenting support, the CESASC and the Science and Engineering community will continue to push for innovation and discovery.

I commend the 56th Annual Convention attendees, and would like to encourage the researchers to continue protecting the interests and rights of scientists and engineers through organizational efforts, as well as continuing to gain knowledge through global and local networking.

On behalf of the United States House of Representatives and the people of the 27th 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, Ph.D.
Member of Congress, 27th District



JOHN CHIANG
TREASURER
STATE OF CALIFORNIA

April 14, 2018



Ms. Dongmei Huang
President
Chinese-American Engineers and Scientists Association
Of Southern California
1277 Hillside Street
Monterey Park, CA 91754

Dear Friends:

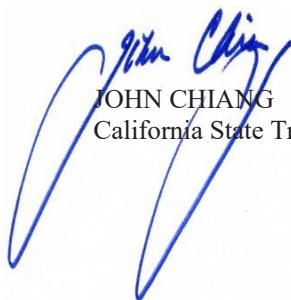
I am pleased to congratulate the Chinese-American Engineers and Scientists Association (CESASC) on the 56th Anniversary Annual Convention, "We Are Connected."

For over five decades, CESASC has served as a platform from which engineering and science professionals can broaden their careers. Known for bringing together industry leaders, corporate executives, Nobel Laureates, and scholars to promote growth and opportunities in the areas of engineering and science, CESASC drives innovation and investments. CESASC, through its programs, inspires students to further their academic studies in the science, technology, engineering and mathematics (STEM) fields.

Congratulations to the honorees: Professor Xuemei Chen and Dr. Fuk Li, Achievement Awardees, and Shan Lee, Service Awardee. Your collective achievements have contributed to our community's progress. I am deeply humbled to join this distinguished group of leaders as the recipient of this year's Trailblazer Award. Thank you for this honor.

To the leadership, members and friends of CESASC, congratulations again on your accomplishments. I extend my best wishes for a most successful and productive future.

Very truly yours,


JOHN CHIANG
California State Treasurer



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April 14, 2018

Dongmei Huang, President
CESASC
1277 Hillside Street,
Monterey Park, CA 91754

Dear Friends:

It is with great pleasure that I congratulate the Chinese-American Engineers and Scientists Association of Southern California (CESASC) on hosting their 56th Anniversary Annual Convention, "We Are Connected", at the Pacific Palms Resort.



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 49th 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



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KATHRYN BARGER
SUPERVISOR, FIFTH DISTRICT

April 14, 2018



Chinese-American Engineers and Scientists Association

Dear Friends,

Greetings to you, your guests, and your supporters gathered for the Chinese-American Engineers and Scientists Association of Southern California's 56th Anniversary Annual Convention.

Los Angeles County appreciates CESASC's work to provide a platform for engineering and science professionals to network, share ideas, and develop leadership skills. The county further commends CESAC's efforts to create a strong Science, Technology, Engineering and Mathematics (STEM) program to broaden students' skills and knowledge.

Congratulations to all of the award recipients.

Best wishes,

KATHRYN BARGER
Supervisor, Fifth District

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2018 CESASC Convention Daytime Program
南加州中華科工學會第 56 屆年會科技研討會
11:00 am – 5:00 pm, April 14, 2018, Pacific Palms Resort
We Are Connected (連結你我)

| TIME | TOPIC AND LOCATION | | |
|--------------------|--|---|---|
| 11:00 am | Check-in and Social | | |
| | Lunch Keynote Speeches (Cherry Hill Room) | | |
| 11:45 am ~ 1:15 pm | <p>Moderator: Eric Wu, Daytime Symposium Co-Chair</p> <ul style="list-style-type: none"> • 11:45 am – 12:25 pm <p>Mr. Michael Zhang (張宇慶), Founder & CEO, Firefly Games: VR-Gaming-Blockchain: <i>The Future of Digital Entertainment</i> (Including Q&A)</p> <ul style="list-style-type: none"> • 12:25 pm – 12:50 pm <p>Dr. Xuemei Chen (陳雪梅), Professor, UC Riverside: <i>Small RNAs: Small but Powerful</i></p> <ul style="list-style-type: none"> • 12:50 pm – 1:15 pm <p>Dr. Joe Qin (秦泗釗), Professor, USC: <i>You Can Choose Your Career</i> (你的事業你做主)</p> | | |
| 1:15 ~ 1:30 pm | Networking Break w/Exhibitors (Torrey Pines Room) | | |
| | Pebble Beach Room | Cherry Hill Room | Hazelton Room |
| 1:30 ~ 3:00 pm | <p><u>Technical Symposium</u></p> <p>Moderator: Jill Long, Technical Symposium Chair</p> <p>Dr. Eric Chiou, UCLA <i>Light: An Amazing Form of Energy for Biomedical Applications</i></p> <p>Dr. May-Chen Martin-Kuo, Deep Force <i>Deep Learning Applications on Embedded System</i></p> <p>Dr. S. C. Lee, Retired Tech Executive, Newegg <i>Retailing in a Connected World</i></p> <p>Dr. Alex Liu*, IBM <i>Our Future Career and Life in the Era of Blockchain and AI</i></p> <p>* Subject to final confirmation</p> | <p><u>Business Contest</u></p> <p>Moderator: Richard Ren, Business Innovation Contest Committee Chair</p> <p>Teams</p> <p>(To be announced on April 14, 2018)</p> | <p><u>STEM Workshop</u></p> <p>Moderator: Yiu Man So, STEM Essay Contest Committee Chair</p> <p>"Future Technologies that help Human Lives"</p> <p>High School (9-12) Stanley Liu, 1st Place A Microfluidic Device for Plasma Separation from Whole Blood Samples, Using Acoustic MicroVortex</p> <p>Jennifer Lee, 2nd Place Biochip Repair for Immune System Defects</p> |
| 3:00 ~ 3:15 pm | Networking Break w/Exhibitors | | |
| 3:15 ~ 4:15 pm | <p><u>Career and Leadership Development</u></p> <p>Moderator: Jill Long, Technical Symposium Chair</p> <p>Panelists</p> <p>Dr. Xuemei Chen</p> <p>Dr. Eric Chiou</p> <p>Dr. May-chen Martin-Kuo</p> <p>Dr. S. C. Lee</p> <p>Dr. Joe Qin</p> | | <p>Major Yang, Honorable Mention</p> <p>Building Color Coded 3D printing Model from 2D MRI Scans to Enhance Precise Tumor Removal Surgery</p> <p>Jr. High School (6-8) EmmaZong, 2nd Place, Ocean Water Filter Technology: Help Clean Polluted Ocean Water</p> <p>Exhibits – Poster & Experiment</p> |
| 4:30 ~ 5:00 pm | Press Conference (Cherry Hill Room) | | |

Floor Manager: T. Janice Shen

2018 CESASC Technical Symposium Luncheon Keynote Speakers



Michael Zhang (張宇慶) is the Founder and CEO of Firefly Games, the Co-founder and CEO of Mobia Entertainment, also the former CEO of ZQGame Inc. (U.S. Subsidiary) and President (Overseas) of ShenZhen ZQGame (a publicly traded online gaming company with 3000 employees and 30+ studios worldwide). He is a serial entrepreneur in online/mobile gaming, E-commerce and social network businesses with 21 years working (15+ years management) experience. In January 2015, he founded Firefly Games Inc., a global publisher and developer of mobile games for iOS and Android with offices in Los Angeles and Shanghai. The company's valuation has become \$100M in 2016 and it was selected as the top 50 LA startups to watch in 2017. In 2008 he co-founded and became CEO of Ray Flame Entertainment Inc., a MMO-browser/SNS game publisher/developer in Los Angeles. Prior to Ray Flame, Michael was the General Manager of THS International Inc., the world largest MMORPG virtual currency provider. Also he served the U.S. General Manager position of an Online Game Publisher – VestGame Entertainment. He received MS of Computer Science in the U.S. and MBA in Korea.



Xuemei Chen (陳雪梅) graduated with her B.S. degree from Peking University in 1988, and was selected to participate in the CUSBEA (China-US Biology Examinations and Admissions) program that provided opportunities for Chinese students to pursue Ph.D. studies in US institutions. She received a doctorate from Cornell University in 1995. After postdoctoral training from 1995 to 1998 at California Institute of Technology, she started her assistant professor position in 1999 at the Waksman Institute at Rutgers University. She was promoted to associate professor in 2005 and won the Board of Trustees Research Fellowship for Scholarly Excellence at Rutgers University. She moved to University of California, Riverside in 2005 as an associate professor and was promoted to full professor in 2009 and distinguished professor in 2013. In 2006, she received the prestigious Charles Albert Shull award from American Society of Plant Biologists. In 2011, she was elected an AAAS Fellow. In the same year, she was selected to be an HHMI-GBMF investigator. In 2013, she was elected into the US National Academy of Sciences.



S. Joe Qin (秦泗釗) is the Professor at the Viterbi School of Engineering of the University of Southern California. He obtained his B.S. and M.S. degrees in Automatic Control from Tsinghua University in Beijing, China, in 1984 and 1987, respectively, and his Ph.D. degree in Chemical Engineering from University of Maryland at College Park in 1992. He is a recipient of the National Science Foundation CAREER Award, the 2011 Northrop Grumman Best Teaching award at Viterbi School of Engineering, the DuPont Young Professor Award, Halliburton/Brown & Root Young Faculty Excellence Award, NSF-China Outstanding Young Investigator Award, Chang Jiang Professor of Tsinghua University, National “Thousand Talent” Professor of China, and recipient of the IFAC Best Paper Prize for a model predictive control survey paper published in Control Engineering Practice. He has published over 140 papers in SCI journals or book chapters, with over 10,000 Web of Science citations and an associated h-index of 49. He has given over 40 invited plenary or keynote speeches and over 100 invited technical seminars worldwide.



2018 Technical Symposium Speakers



Dr. Eric Pei-Yu Chiou
邱培鈺博士

Dr. Eric Pei-Yu Chiou received his Ph.D. degree in the Electrical Engineering and Computer Sciences Department from the University of California at Berkeley in 2005. He received his M.S. degree in the Electrical Engineering Department from UCLA and B.S. degree in the Mechanical Engineering Department from National Taiwan University in 1998. He was an assistant professor in the Mechanical and Aerospace Engineering Department at the University of California at Los Angeles (UCLA) between 2006~2011, associate professor between 2011~2015, and full professor since then. He is also a full professor in the Bioengineering Department in UCLA. His research interests focus on photonics, microfluidics, and flexible electronic and mechanical devices for biomedical applications. He received the NSF CAREER award in 2008, UCLA MAE Teaching Award in 2014, JALA TOP TEN innovation award in 2015. He is Fellow of American Institute for Medical and Biological Engineering (AIMBE) and Fellow of The Royal Society of Chemistry (RSC).



Dr. May-Chen Martin-Kuo
郭美辰博士

Dr. May-Chen Martin-Kuo is an expert in optimizing computationally demanding algorithms. She is the founder and the current CTO of Deep Force, Inc., empowering on-device Deep Learning AI.

Dr. May-Chen Martin-Kuo has 14 years of experience in developing and optimizing computationally demanding algorithms with computer architecture designs in mind. She is familiar with data compression, signal processing, queuing theory, multi-core system modeling, heterogeneous computing and system performance projection and verification. She founded Deep Force Inc. in 2017 to provide Deep Learning AI solutions on devices to businesses in mobile, education and health sectors. Deep Force was recognized at CES 2018.

Dr. Martin-Kuo received her Ph. D. degree in Electrical Engineering from University of Southern California in 2010 and her B.S. degree in Computer Science from National Taiwan University in Taiwan, Republic of China in 2003.



Dr. S. C. Lee
李士驥博士

Dr. S. C. Lee is a retired tech executive dabbling in business consulting and entrepreneur coaching.

Prior to retiring, Dr. Lee has held positions at online retailer Newegg, including stint as vice chairman and CEO of its North America operations. Previously, he was a venture partner of the Taiwan-based Global Strategic Investment Fund. Before that he spent 14 years with Microtek, managing its US and European operations; and 8 years at Dynamics Technology as a principal research scientist.

Dr. Lee graduated from National Taiwan University in 1970. He holds a Ph.D. degree and an M.A. degree in Mathematics from Brandeis University. He also taught mathematics at the University of Washington from 1975 to 1977.



Dr. Alex Liu*
刘永川博士

Dr. Alex Liu is a Chief Data Scientist at IBM Analytics, and a managing director of the Global Association for Research Methods and Data Science. Before joined IBM in 2013, he worked as a chief data scientist for a few corporations including TRG and YapStone. Before that, Dr. Liu taught advanced analytics to Ph.D. candidates in the University of Southern California and the University of California at Irvine as an adjunct professor, while consulted for the United Nations, US Government plus many cross-national corporations such as Ingram Micro and SinoPec. His most recent publication is a book titled Apache Spark Machine Learning Blueprints by Packt Publishing 2016, with its Chinese version published by China Machine Press in Beijing 2017.

Dr. Alex Liu received his Ph.D. degree in Quantitative Sociology and Statistical Computing from Stanford University, and his B.S. degree in Mechanical Engineering from the Northwestern Polytechnical University in Xian, China.



2018 CESASC Convention Dinner Gala & Awards Presentation

南加州中華科工學會第 56 屆年會晚宴

5:30 pm – 9:00 pm, April 14, 2018, Pacific Palms Resort

We Are Connected (連結你我)

| | | |
|---------|---|---|
| 5:30 pm | Check-in and Social | |
| 6:00 pm | Begin Banquet | MC: Ms. Lan Saadatnejadi & Dr. Dankai Liu |
| 6:05 pm | Welcome Remarks by CESASC President | Ms. Dongmei Huang |
| 6:08 pm | Remarks by Convention Chair | Dr. Hui Su |
| 6:10 pm | Dinner Served | |
| 6:25 pm | Remarks by Congresswoman Judy Chu | Congresswoman Judy Chu |
| 6:28 pm | Presentation of Certificate from Congresswoman Judy Chu | Congresswoman Judy Chu |
| 6:30 pm | Remarks by Assemblymember Ed Chau | Assemblymember Ed Chau |
| 6:33 pm | Presentation of Certificate from Assemblymember Ed Chau | Assemblymember Ed Chau |
| 6:35 pm | Remarks by Rancho Palos Verdes Mayor Susan Brooks | Mayor Susan Brooks |
| 6:38 pm | Presentation of Certificate from Mayor Susan Brooks | Mayor Susan Brooks |
| 6:40 pm | Keynote Speech (Introduced by Dr. Liping Yan) “5G -- What Comes Next” | Dr. Mingxi Fan (范明熙), Qualcomm |
| 7:00 pm | 2018 CESASC Trailblazer Award Presentation • Honorable John Chiang (江俊輝), CA State Treasurer | Mr. Mike Eng |
| 7:20 pm | Daytime Symposium Summary | Ms. Jill Long |
| 7:25 pm | Student Award Presentations <u>2018 CESASC Student STEM Essay Awards</u> • Group 1 (Grade 6~8): Emma Zong • Group 2 (Grade 9-12): Stanley Liu, Jennifer Lee, Major Yang | Mr. YiuMan So & Dr. Yutao He |
| | <u>2018 CESASC Scholarship Awards</u> Yinwen Cao (曹寅文), Yang Deng (鄧楊), Yuanlong Huang (黃元龍), Wei-Cheng Hung (洪偉程), Tianhao Le (樂天昊), Xurong Li (李緒榮), Yen-Ju Lin (林彥如), Yusi Xu (許宇司), Jiacheng Yang (楊嘉誠), Yuan Zhu (祝媛) | Dr. Yu Gu |
| | <u>2018 CESASC Business Innovation Competition Awards</u> | Mr. Richard Ren |
| 8:00 pm | Solo Chinese Korean Dance – ‘Spring Drumming’ | Ms. Ying He |
| 8:05 pm | 2018 CESASC Achievement Award Presentations • Prof. Xuemei Chen (陳雪梅), UC Riverside • Dr. Fuk K. Li (李復國), JPL | Dr. Charles Wu |
| 8:15 pm | 2018 CESASC Service Award Presentation • Mr. Shan Lee (李珊), Kander Pacific | Dr. Munson A. Kwok |
| 8:20 pm | 2018/19 CESASC Board Installation | Councilmember Samuel Kang, Duarte |
| 8:30 pm | Certification Presentation to Outgoing Board Members • Dr. Yue Rong & Mr. Manwai Szeto | Ms. Lan Saadatnejadi |
| 8:35 pm | Group Hip Hop Dance – ‘Problems’ | THUAASC Dance Group |
| 8:40 pm | 2018/19 CESASC President Speech | Dr. Hui Su |
| 8:50 pm | Closing Remarks | Ms. Dongmei Huang |

Floor Managers: Dr. Jason Wen and Dr. Jonathan H. Jiang



The 56th CESASC Convention Keynote Speaker



5G -- What Comes Next

Dr. Mingxi Fan

范明熙 博士

**Vice President of Engineering
Qualcomm**

Dr. Mingxi Fan is currently Vice President of Engineering in Qualcomm focusing on advanced technology strategy development and driving key eco-system technical partnership projects in areas of wireless, multimedia and artificial intelligence on mobile platform. Prior to this role he was with Qualcomm research driving radio and spectrum sharing innovation for LTE and 5G as a corporate-wide initiative. He joined Qualcomm R&D in 2002 as a system engineer on cdma2000 EV-DO project. Since then, he has been driving key technology initiatives on cdma2000, UMTS, LTE and now 5G from concept to realization to commercialization. His responsibilities in company over the years span across system design, prototype, standardization, technology evangelization, and commercial product development and verification. He established Qualcomm Research China operation in 2008 in Beijing as the first overseas research division for the company, where the division now is an advanced technology power house in China for Qualcomm on 5G, robotics IoT, and machine learning. Dr. Fan holds over 30 granted US patents, and he has received top contributor awards in Qualcomm Research in 2004 and 2011.

Mingxi Fan received his Bachelor, Master and Ph.D. degrees in Electrical Engineering in 1999 and 2002, respectively, from the Massachusetts Institute of Technology, Cambridge, MA, where he also received the Ernst A. Guillemin EE Master's thesis award from MIT in June, 1999. He has been volunteering as an MIT educational counselor since 2007 for high school students in Beijing and San Diego. He is also a baptized Christian serving as deacon for the Chinese Bible Church Central Campus in San Diego, where he is actively contributing on faith-based career and family ministries. His present ministry services include Sorrento Valley Career Fellowship that meets weekly to enable technology professionals in the area to support each other and grow together in different disciplines, a family-based Christian fellowship, as well as supporting youth and children ministries on demand.



2018 CESASC Trailblazer Award



Honorable John Chiang

江俊輝先生

Treasurer

State of California

Mr. John Chiang was elected on November 4, 2014, as California's 33rd State Treasurer. As the state's banker, he oversees trillions of dollars in annual transactions, manages a \$75 billion investment portfolio, and is the nation's largest issuer of municipal bonds.

In addition, he chairs financing authorities that help provide good-paying jobs, better schools, improved transportation, quality health care, more affordable housing and a cleaner environment. He handles those duties while sitting on the governing boards of the nation's two largest public pension funds with combined assets exceeding \$496 billion.

Upon assuming office, John Chiang developed a financial blueprint for the state – sixteen ideas designed to help workers, businesses, and communities. These initiatives are detailed in “Building California’s Future Begins Today.” A whole chapter of the plan focuses on new approaches to maintaining and building bridges, roads, schools and other critical public infrastructure. To date, 14 of the 16 objectives in the original blueprint have either been accomplished or are near completion.

Mr. Chiang has made transparency a top priority, believing that sharing information with taxpayers enables them to hold government officials accountable. In November 2015, he unveiled DebtWatch, a powerful new website that offers the public user-friendly access to three decades of data related to debt issued by state and local governments. DebtWatch was named “Best Application Serving the Public” at the 2016 California Technology Forum.

Prior to being elected Treasurer, John Chiang served from 2007 through 2014 as State Controller. During the Great Recession he took steps to preserve cash to meet obligations to education and bond holders. His cash management decisions – which included delaying payments and issuing IOUs -- were instrumental in keeping the state’s credit rating from plunging into junk status. Chiang’s actions saved taxpayers millions of dollars.

He aggressively used his audit programs to identify more than \$9.5 billion of fraud, waste and abuse in government programs, the most by any Controller in California’s history.

John Chiang was first elected to the Board of Equalization in 1998 where he served two terms, including three years as chair. He began his career as a tax law specialist with the Internal Revenue Service and previously served as an attorney in the State Controller’s Office.

The son of immigrant parents, John Chiang graduated with honors from the University of South Florida with a degree in finance. He received his law degree from the Georgetown University Law Center.



2018 CESASC Achievement Award Recipient



Dr. Xuemei Chen

陳雪梅 博士

Professor and

**HHMI-GBMF (Howard Hughes Medical
Institute - Gordon and Betty Moore
Foundation) Investigator**

University of California, Riverside

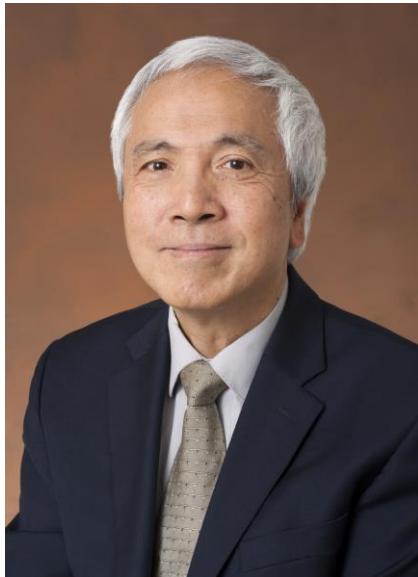
Xuemei Chen graduated with her B.S. degree from Peking University in 1988, and was selected to participate in the CUSBEA (China-US Biology Examinations and Admissions) program that provided opportunities for Chinese students to pursue Ph.D. studies in US institutions. She studied the gene expression of chloroplasts and received a doctorate from Cornell University in 1995.

After postdoctoral training (studying the genetics of floral patterning) from 1995 to 1998 at California Institute of Technology, she started her assistant professor position in 1999 at the Waksman Institute at Rutgers University. She was promoted to associate professor in 2005 and won the Board of Trustees Research Fellowship for Scholarly Excellence at Rutgers University. She moved to University of California, Riverside in 2005 as an associate professor and was promoted to full professor in 2009 and distinguished professor in 2013.

At University of California, Riverside, Dr. Chen has been engaged in research in two major directions: (1) studying the biogenesis, degradation, modes of action, and biological functions of noncoding RNAs, and (2) dissecting the mechanisms underlying stem cell maintenance and/or termination.

In 2006, she received the prestigious Charles Albert Shull award from American Society of Plant Biologists. In 2011, she was elected a fellow of the American Association for the Advancement of Science for "pioneering discoveries in the field of plant biology in small RNA metabolism and plant development." In 2013, she was elected into the US National Academy of Sciences.

2018 CESASC Achievement Award Recipient



Dr. Fuk K. Li

李復國 博士

**Director of Mars Exploration Directorate
Jet Propulsion Laboratory**

NASA

Dr. Fuk K. Li is Director for the Mars Exploration Directorate at NASA's Jet Propulsion Laboratory. He received his bachelor's degree and doctorate in physics from the Massachusetts Institute of Technology. He joined JPL in 1979 and has been involved in radar remote sensing activities. He has developed a number of system analysis tools for spaceborne synthetic aperture radar system design, and participated in the development of and applications for interferometric synthetic aperture radar.

From 1983 to 1988, he was the project engineer for the NASA Scatterometer. He was principal investigator for an airborne rain mapping radar, an airborne cloud mapping radar, an experiment using spaceborne imaging radar to study rainfall effects on ocean roughness, and the development of an airborne active/passive microwave system for ocean salinity and soil moisture sensing. From 1997 to 2001, he managed the New Millennium Program, designed to flight-validate key technologies that bring significant benefits to future science missions.

He became deputy director of JPL's Solar System Exploration Program Directorate in 2001 and deputy director for the Mars Exploration Directorate in 2004. He is currently also the Mars Exploration Program Manager.



2018 CESASC Service Award Recipient



Mr. Shan Lee
李珊先生
Principal, Kander Pacific
Chairman, CESASC Scholarship Foundation

Mr. Shan Lee majored in Electronics Engineering at Chiao Tung University in Hsinchu, Taiwan and received a Bachelor of Science Degree in 1974.

He came to the U.S. in 1978 to study at the University of Texas and received Master Degree of Electrical Engineering in 1980. He had worked for various technical companies.

Since he received his second Master Degree from USC in Engineering Management in 1986, he started thinking about a career change. His first attempt was becoming a stock broker by getting a Series 7 license and working part time at a local brokerage firm. The stock market crash in 1987 crushed the retail business and he got a real estate broker license in 1987. He started out with property management work in real estate and decided to get into the industrial real estate business.

He quit his job at TTI in 1989 and became a full time real estate broker working for Daum Commercial Real Estate Services in its City of Industry office. He stayed with the firm for the next 28 years and rose through the ranks and became a partner and Executive Vice President. He left Daum and formed Kander Pacific Inc. in 2016 to become independent and to continue working in the commercial real estate industry with more freedom to pursue the type of businesses of my choice.

He participated in the formation of the Chinese American Association of Southern California East Chapter in 1990 and later became President of the Chapter. He was involved in many community activities and Presidential campaigns. He later served as the President of the Hacienda Heights Area Chinese American Association in 2005. He was elected President of the Chinese American Engineers and Scientists Association of Southern California (CESASC) in 2005 and Chairman in 2006 and 2007. He is still serving as the Chairman of the CESASC Scholarship Foundation.

He began his involvement with the political process in 1989 when he campaigned for someone in the community of Hacienda Heights who was running for State Assembly. That person did not succeed but Shan Lee was tapped by the winning candidate to become his field representative in the Assembly District. He was the very first Asian-American field representative in that District. Later in 1992, he was elected as a member of the Republican Central Committee in that District. He was involved in the Cityhood Drive in 2003 in Hacienda Heights and ran as a City Council candidate. He served on Hacienda Heights Improvements Association as its board member and zoning chair from 2008 to 2013. He later served on Los Angeles County Business License Commission from 2014 through 2016.

He is married to his wife, Sanne Lee, and they have raised two children.



2018 CESASC Convention Dance Performance

Solo Dance - Chinese Korean Dance "Spring Drumming" by Ms. Ying He 何盈

VP, Tsinghua University Alumni Association of Southern California (THUAASC)
President, THUAASC Performing Art Company

Ying He graduated from Dept. E.E, Tsinghua University. Currently she works in Southern California Edison Company as Principal of EHV Power System Planning in the area s of long term power system planning and renewable energy integration in Southern California. She also performs classical opera and various folk dances as well as accordion play. Ying strongly believes in the unity of Tsinghua alumni and influencing the glory of Chinese art and culture into communities.



Group Dance – Hip Hop “Problems” by Tsinghua University Alumni Association of Southern California Dance Group

The Dance of "Problems" is a hip hop dance characterized with jazz and lyrical elements, choreographed to 3 pieces of pop music songs.

THUAASC Dance Group was founded in Pasadena in April 2014 as a club under the alumni association. The group has since bloomed into a group with over 20 members that age 20 to 50.

The goal of this group consists training in dance fundamentals and cultivating self-confidence through abundant opportunities to perform on stage for dancers at all levels. Besides the two routine formal performances for the Tsinghua University Alumni Association events every year, this group actively engages in non-profit performances for local Chinese association activities.

Cynthia Zhou, professionally trained hip hop and contemporary dancer and choreographer, serves as a non-paid instructor and choreographer for the dance group, teaching steps and dance foundations and choreographing group dance routines. Julia Wang, leader of this dance group since 2015, is responsible for organizing training and performance, and fostering enthusiasm and harmony among the participants.





2018 CESASC Banquet Gala Program Masters of Ceremony



Lan Saadatnejadi has nearly 30 years of public and private-sector experience in infrastructure improvement program and project management. Her top specialties include implementing new initiatives, building new teams, and elevating team performance. She founded LRS Program Delivery, Inc. (LRS) and helps her client save millions through her innovative process improvement initiatives and at the same time increase performance output. Her clients include California Department of Transportation, Los Angeles World Airports, Los Angeles Metropolitan Transportation Authority, City of Rialto, Hyperloop Transportation Technologies, Orange County Transportation Authority, etc.

Fluent in both English and Chinese, Lan Saadatnejadi has been invited to speak at numerous seminars and events and delivered lectures to both U.S. and international audiences. She serves as a Planning Commissioner of the City of Rancho Palos Verdes, Advisor to the Transportation Select Committee of California Assembly, 2017-2018 Board Chair of the Chinese Engineers & Scientists Association of Southern California (CESASC), Senior Advisor to the Los Angeles Sustainability Coalition (LASC), and a member of the scholarship review committee at University of California, Los Angeles (UCLA). She is a licensed civil engineer in California and earned her bachelor's degree in civil engineering from UCLA and master's degree in business administration (MBA) from California State University, Long Beach (CSULB).



Dr. Dankai Liu is an aerospace engineer at NASA's Jet Propulsion Laboratory (JPL) of the California Institute of Technology.

Currently, he serves as Project System Engineer for the NASA-ISRO Synthetic Aperture Radar (NISAR) mission. The NISAR mission is a joint project between NASA and ISRO (Indian Space Research Organization) to co-develop and launch a synthetic aperture radar satellite to better understand natural processes of the Earth.

Dankai has held numerous critical positions for JPL's space exploration projects, including Project System Engineer and Chief Engineer for Orbiting Carbon Observatory 2 (OCO-2) which was NASA's first mission dedicated to studying atmospheric carbon dioxide measurements by the space technology, Chief Engineer of Aquarius mission which measured the sea surface salinity from space, Instrument Manager for Space Interferometry Mission, Deputy Flight System Manager and Deputy Chief engineer for NASA's Mars Science Laboratory (MSL), Flight System Manager for Mars Telecom Orbiter, Assistant Division Manager for Flight Projects of the Avionic Systems and Technology Division, Flight System Manager for the GALEX (Galaxy Evolution Explorer) Project, Avionics Manager for Deep Space One Mission of New Millennium Program, which was designed to flight-validate key technologies that bring significant benefits to future science missions, and the Attitude Control System Lead for the Mars Pathfinder Mission.

Among the numerous distinguished recognitions and awards presented to Dankai are The Engineer's Council Outstanding Engineering Achievement Merit Award, the NASA Exceptional Achievement Medals, JPL Leadership and Technical Excellence Awards, Distinguished Alumni Awards from Tatung University and Texas Tech University, and the Distinguished Immigrant Building America Award from the American Institute in Taiwan.



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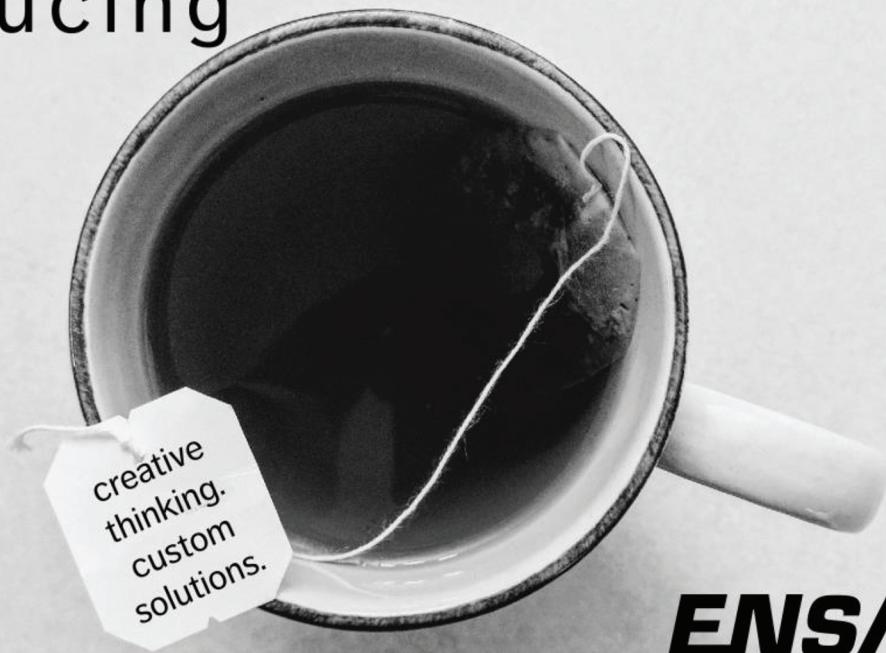
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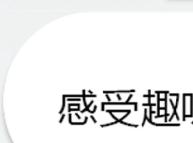
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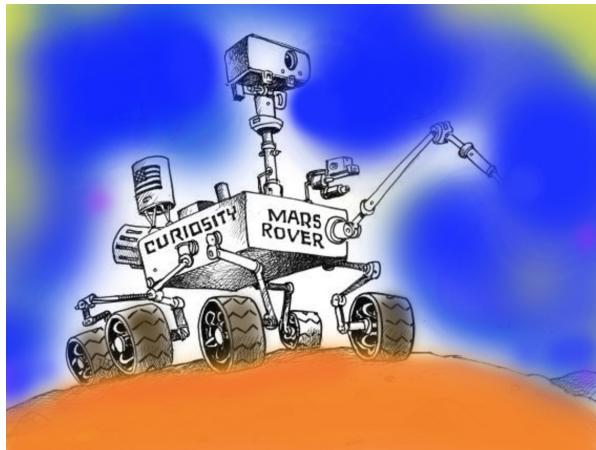
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We thank
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for his service to CESASC and CESASC Scholarship Foundation.

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This year, two CESASC past presidents passed on. Donations to the Paul P. Yeh and Charles P. Wang Memorial Fund totaled \$4,300, funding five 2018 CESASC Foundation Scholarships. Thanks to all.

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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; Dongmei Huang and Yu Gu, Directors.



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Yinwen Cao 曹寅文

Ph.D. student, Electrical Engineering, USC

Received both Bachelor and Master degrees from Beijing University of Posts and Telecommunications. Current research focus is ultra-fast digital/optical signal processing and channel (de)multiplexing for high-capacity data communication systems.

CESASC Foundation Scholarships, by the Paul Yeh and Charles Wang Memorial Fund



Yang Deng 邓杨

M.S. student, Civil Engineering, USC

Currently working at METRANS Transportation Center as a student assistant, concentrate on the first and last mile planning issues. He is also the Founder & CEO of FYPO (For Your Progress Only, a nonprofit organization) and USC international Academy Student Ambassador.

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



Yuanlong Huang 黄元龙

Ph.D. student, Environmental Science and Engineering, Caltech

Obtained both B.S. and M.S. degrees from Fudan University. In Caltech, he likes instrument development for aerosol size measurement, characterization of laboratory reactors to study secondary organic aerosol formation, and modeling heterogeneous reactions in the atmosphere.

Dr. Jiin-Jen and Mrs. Sage Lee Scholarship



Wei-Cheng Hung 洪偉程

Ph.D. student, Civil and Environmental Engineering, UCLA

Obtained a dual bachelor's degree in Chemical Engineering and Geography from National Taiwan University. His research interests include heavy metal pollution and its co-selection effect on the dissemination of antibiotic resistance genes in environmental compartments.

CESASC Foundation Scholarships, by the Paul Yeh and Charles Wang Memorial Fund



Tianhao Le 乐天昊

Ph.D. student, Environmental Science and Engineering, Caltech

Received bachelor's degrees in Physics and minor in Statistical Mathematics from Peking University. His principal research interests are the transmission of radiation through planetary atmospheres and what role clouds play in atmosphere

CESASC Foundation Scholarships, by the Paul Yeh and Charles Wang Memorial Fund



Xurong Li 李绪荣

Ph.D. student, Electrical Engineering, UCLA

Received his bachelor's degree in Microelectronics from Peking University in 2016. His research interests lie in photoconductive terahertz sources and terahertz applications in wireless communication, medical imaging, security screening and chemical identification.

CESASC Foundation Scholarships, by the Paul Yeh and Charles Wang Memorial Fund



Yen-Ju Lin 林彥如

Ph.D. student, Electrical Engineering, UCLA

Received both B.S and M.S. degrees in electrical engineering from National Taiwan University. She is currently working on a scanning terahertz nanoscopy system for label-free biological studies, which can accelerate progress in biophysics and nanomedicine.

Lois and Henry Chi Scholarship

2018 CESASC Scholarship Recipients



Yusi Xu 许宇司

Ph.D. student, Communication, USC

Received double B.A. with the highest honor in Journalism and in International Relations from Peking University. Her research focuses on the potential of social media in addressing health disparities and social change among marginalized population, especially ethnic minorities.

Anna and John Sie Foundation Scholarship



Jiacheng Yang 杨嘉诚

Ph.D. student, Chemical and Environmental Engineering, UCR

Received B.S. degree in Chemistry from East China Institute of Technology. His research focuses on advance fuel composition, after treatment technologies, and engine designs to reduce combustion emissions from small engines, vehicles, and large ocean-going vessels.

CESASC Foundation Scholarships, by the Paul Yeh and Charles Wang Memorial Fund



Yuan Zhu 祝媛

Ph.D. student, Chemical and Biomolecular Engineering, UCLA

Pursuing a bachelor's degree in Chemical and Biomolecular Engineering in UCLA. Undergraduate researcher in Professor Yang Yang's Lab. Research aims to improve the efficiency of solar cells by trying different materials.

Tsai/Lee and Yu Memorials Scholarships

2018 CESASC Scholarship Committee Members



Yu Gu, Ph.D. (Chair)

Researcher and Assistant Director in Joint Institute for Regional Earth System Science and Engineering, UCLA. Associate Editor of Journal of Meteorological Research. PI for NSF, DOE, and NASA projects.



John Chou, Ph.D.

President & Technical Director of Polymerica, Inc. during 1993-2015. Polymer Scientist with more than 20 years of experience in the design, synthesis, and full-scale production in plastic & rubber.



Bing Neris

Environmental Engineer. Chinese Institute of Engineers (CIE) SoCal president. Her profession and contribution in developing CIE STEM programs provide great educational and social impact to the community.



Richard Ren

Director of LA POST, founder and Chairman of "AACYF 30 under 30". Graduated from ULV with M.S. of Finance & Supply Chain Management and then Ph.D. of Public Administration.



Zhonghe Wu, Ph.D.

Professor at National University. Involved in various publicly and privately funded research projects. Editor-in-Chief of Journal of Research in Innovative Teaching & Learning.



Lei Xu, Ph.D.

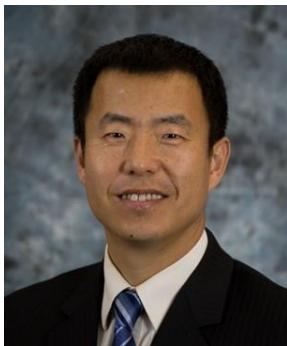
Associate Professor in the Department of Geography and Environment at California State University, Fullerton. President of Peking University Alumni Association of Southern California.



2018 Business Innovation Panel of Judges



Dr. Xiwu Cao is currently a senior technical specialist in the information and imaging research group of Canon USA, focusing on the automatic object detection using computer vision and deep learning techniques. He has eight patent application since he joined Canon last year. He is also an adjunct faculty at California State University at Fullerton. He has over 10 years of experience in the design and development of biomedical device, pattern recognition, and machine learning. He earned his Ph.D. in Biomedical Engineering from the University of Southern California (USC). His dissertation received the Grodins Graduate Award from the Biomedical Engineering department at USC, and the Graduate Research Award from the Biomedical Engineering Society (BMES). Later, he joined Arges Imaging and became a senior manager in software development focusing on 3D computer vision and system mathematical modeling. Dr. Cao was also a board member in CESASC committee, and successfully organized and hosted the CESASC Business Innovation Competition in 2017.



Dr. Charley Lu is Director of Biometrics Engineering at Gemalto, a global leader in digital security. Be responsible for Biometrics software system and hardware product R&D. Worked for Cogent (Chief Engineer), 3M Cogent (R&D lab manager), Gemalto Cogent in Los Angeles for 19 years. Focused on R&D in high performance computing, embedded system, pattern recognition and artificial intelligence. Received BA, MS, and Ph.D. in Pattern Recognition and Intelligent Signal Processing from Tsinghua University. 2017 Chairman of Chinese University Alumni Association Alliance of Southern California (CUAAASC). 2015 Chairman and 2014 President of Tsinghua University Alumni Association of Southern California (THUAASC).



Wensheng Zhou, Ph.D. is Managing Director of SIP-UCLA Institute for Technology Advancement (SIP-UCLA ITA). Dr. Zhou is the founding member and managing director of SIP-UCLA ITA, which hosts a XLAB incubator in Suzhou for start-ups since June 2014. The incubator has helped more than 150 projects to win funds from various VCs and government funding agencies. Prior to SIP-UCLA ITA, Dr. Zhou served as senior research manager of the MediaTek (USA) Inc. and a senior research staff member of HRL Laboratories, LLC. Dr. Zhou was also a board member in CESASC, and successfully participated with the CESASC Business Innovation Competition in 2017.



2018 CESASC

STEM | ESSAY CONTEST WINNERS

Future Technology That Can Improve Human Life

Student

[Group1: Grade 6-8]



Second Place: Emma Zong

Title: *Ocean Water Filter Technology: Help Clean Polluted Ocean Water*

Grade: 6

Richardson Middle School
Redondo Beach, California

Student

[Group 2 : Grade 9-12]



First Prize: Stanley Liu

Title: *A Microfluidic Device for Plasma Separation from Whole Blood Samples, Using Acoustic MicroVortex*

Grade: 10

Arcadia High School
Arcadia, California



Second Place: Jennifer Lee

Title: *Biochip Repair for Immune System Defects*

Grade: 11

Diamond Bar High School
Diamond Bar, California



Honorable Mention: Major Yang

Title: *Building Color Coded 3D printing Model from 2D MRI Scans to Enhance Precise Tumor Removal Surgery*

Grade: 9

Riverside STEM Academy
Moreno Valley, California

2018 Essay Contest Judges 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: Cathy Yan Jin (UCLA Researcher), Eric Griffin (Raytheon Sr Principle Engineer), Hui Su (JPL Sr Scientist), Jonathan So (Programmer), Mason Tam (Raytheon Principle Engineer).

My most special appreciation goes to Dr. Hui Su and Dr. Jonathan Jiang of JPL, for their unyielding dedication to our STEM program including the workshops. Their passion and knowledge have been a blessing and empowerment to all the youngsters who attended our workshops.

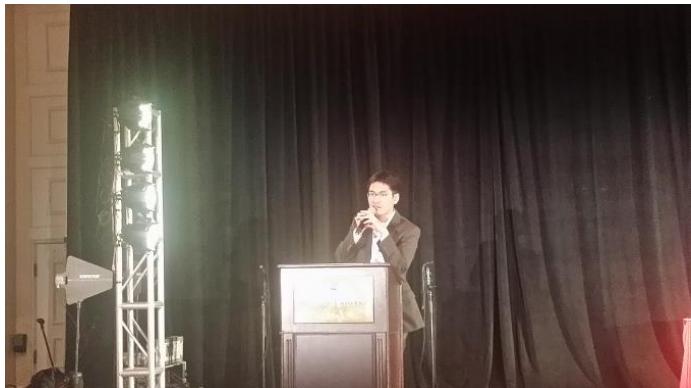
It is a great honor that I and the CESASC STEM team have the opportunity to nurture the youngsters through the CESASC STEM program over many years. These brightest youngsters are our future scientists, technologists and leaders in STEM and beyond. We will keep watch on their development with the greatest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

Yiu Man So
Raytheon Sr Principle Engineer/Project Chief Engineer
CESASC 2010-2011 Elected President



Photo Recaptures (I)

The 55th CESASC Convention & 2017 Technical Symposium (4/15/2017)



Technical Symposium Keynote Speaker Dr. Hao Zhou



Business Innovation Panel of Judges



Press Conference at End of Technical Symposium



Convention Keynote Speaker Mr. James Erickson (R2)



Presenting Business Innovation Competition Awards



Presenting Young Achievement Award to Dr. Yinuo Li (R2)



Presenting Achievement Award to Dr. Wilson Ho (R2)



CESASC Board Installation (L3 – Outgoing President Lan Saadatnejadi; R1 - New President Dongmei Huang)



Photo Recaptures (II) 2017 - 2018 CESASC Activities



CESASC Board Members Attending Bravo Olympics in Los Angeles Coliseum (7/30/2017)



Former CESASC President Gathering (8/27/2017)



Three CESASC Former Presidents (R1-3) Attending Memorial Service for Former President Charles P. Wang (9/6/2017)



CESASC Members Attending CAP Convention (11/4/2017)



CESASC Board Members Visiting Dr. Lois and Henry Chi (CESASC Founding President) (2/4/2018)



CESASC Members at SCAAE Convention (3/10/2018)



Videotaping for Dr. Fuk K. Li, Director for Mars Exploration, NASA JPL, 2018 CESASC Achievement Awardee (3/12/2018)



CESASC Press Conference at San Gabriel Hilton for the 56th Convention (Center – President Ms. Dongmei Huang, R5 – Incoming President Dr. Hui Su) (3/16/2018)



In Memory of Dr. Charles P. Wang (王正平, CESASC President 1979)

Henry & Lois Chi (戚文祥暨夫人王爾樂, President 1962)

I had the distinct pleasure of knowing Charles for more than 50 years. We were in Phi Tau Phi, and Lily, Lois, Charles and I worked together coordinating CESASC activities and attended many private events throughout the years. One of our personal highlights being in 1978 when we organized CESASC's first trip to mainland China with 26 members and their families in attendance. This was before the U.S. and China had established proper diplomatic relations. We traveled together for 2 weeks, bringing the spirit and purpose of CESASC to our motherland. It was a moving journey in so many ways, and we were honored to have shared it with Charles and Lily. We are deeply saddened that Charles is no longer with us. However, his smile, his lifetime achievements and his true friendship will always remain deep in our hearts.

Wei H. Kao (高為雄, President 1989)

I had known Charles since early 1980's as a colleague at the Space Laboratory of the Aerospace Corp., just before his endeavors as a successful entrepreneur. He was an earlier pioneer in laser optics and his accomplishments were widely recognized in the technical community. Dr. Wang had a pleasant personality which gained him many good friends. We shall miss him!

Tien T. Yang (楊添才, President 1997)

Dr. Wang was one of the pioneers on the development of high power lasers, including Gasdynamic CO₂, HF/DF supersonic, electron pumped excimer, and Chemical-oxygen lasers, and other advanced laser concepts. He organized many high profile technical conferences or symposium. Based on AIAA 16th Fluid and Plasmadynamics Conference papers, he edited a proceeding on "LASERS in fluid mechanics and plasmadynamics," which was extensively distributed. In 1986 he organized the largest laser meeting ever in the Eighth International Conference 85 in Las Vegas. The central theme was Strategic Defense Initiative (SDI). The meeting was well received, and more than fifteen hundred people attended that meeting, including E. Teller, White House Science Council, G. A. Keyworth, Science adviser to the president. Dr. Wang was not only well known and highly respected scientist, but also was a great leader in technical communities.

Liping Yan (顏利平, President 2013)

Dr. Charles P. Wang was an accomplished scientist, a distinguished engineer, a successful entrepreneur, and an enthusiastic and tireless community servant. He was and will continue to be a role model for me!

Yue Rong (YR) (容躍, President 2015)

My deepest condolences to Dr. Charles Wang (王正平博士) family and CESASC family. CESASC carries a long tradition of excellence in science and technology. Dr. Wang is part of it. We shall carry on this tradition. Wish Dr. Charles Wang would rest in peace.



In Memory of Dr. Paul Yeh

1970 - 1971: The Difficult Years for Scientists and Engineers and Our Association

By Dr. Paul P. Yeh (葉雹), President (1970 and 1971)

I had the pleasure of serving as the Acting President of 1970 and the President of 1971. My dual presidency was due to the resignation of Dr. W.H.T. Loh, President-elect for 1970, who decided to resign for health reasons in March 1970.

At that time, the large scale lay-offs by the aerospace industries in Southern California greatly affected many CESASC members. We felt the needs to serve and consequently 17 committees were formed. We contacted AIAA, IEEE, local companies, The White House, Department of Defense, and even the Republic of China for employment information. Col. Duquesne Wolf, Assistant for R & D Manpower, Department of Defense and Grant L. Hansen, Assistant Secretary, R & D, Department of the Air Force agreed to help. Vice Premier Chiang Ching-Kuo of ROC also expressed his concern during his visit to Los Angeles and invited over 60 CESASC members to attend a reception.

The 1970 Youth Committee had many activities including beach party, dinner dance aboard the Carnival cruise ship, hay ride, and square dancing, and a Christmas Party. The Bimonthly Meeting Committee had many outstanding speakers to talk at five meetings with advanced technical topics.

The 1971 Annual Convention was held at the Sheraton Universal Hotel on February 20, 1971. Dr. Chieh Chu served as Convention Chairman. A technical symposium was conducted by Dr. Fred Liu. The keynote speaker, Mr. William Bergen, Group President of North American Rockwell, made a report on the Apollo 14 moon landing.

The 17 Operating Committees continued from 1970. Every committee chairman tried to help unemployed members to find jobs. We even created a corporation and arranged a visit to the Republic of China by four members of the association for a fact finding mission.

The status of CESASC as a non-political corporation was carefully observed. Contacts between visitors from other countries and association members were limited to an individual or corporation basis. Visitors from Singapore and the Republic of China were numerous. Members had opportunities to meet Prime Minister C.K. Yen, Vice-Premier Chiang Chin Kuo, Ministers Y.C. Sun, K.T. Li and Y.S. Tsiang at various bimonthly technical meetings and special occasions. They sent us a list of Urgently Needed Personnel in Taiwan,

The crisis of the engineering profession has come and gone. Engineers and scientists are again in great demand even in today's recession. Looking back to those difficult years, it is noted that we actually had as many activities as now and more young members participated in Youth Programs. For example, 600 people attended the annual picnic and hundreds of members and family went to the youth parties. It is hoped that all the former members will rejoin CESASC and help to attract new members.



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 their 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 the 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 Symposia

In an effort to promote technology advancement for its members, CESASC has sponsored annual Technical Symposia 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 further co-sponsored with UCLA to host an International Symposium on Materials for Enabling Nanodevices (ISMEN). In 2016, CESASC collaborated with UCLA Sustainable LA Grand Challenge to contribute and serve the Los Angeles community.

Scholarship, STEM, LEAP, and Youth Programs

The enrichment of youth program has been our important goal 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 Symposia. In 2012, the CESASC launched a STEM program for local middle and high school students to promote science and engineering education. In 2013, CESASC started a LEAP program working together with college student organization to provide career-related guidance, education, mentorship and opportunities to help young generations for their professional development.

Industrial Relations

CESASC brings together all segments of engineering and science by reaching out 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 needed 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 US.

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.



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 , 也簡稱科工會) 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及高科技企業公司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) 。

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 , 1986 年獎學金得主布朗大學二年級學生廖敏妃同學 (現為加州大學洛杉磯分校醫學院腦瘤項目的教授及主任) , 更於 2006 年以其在醫學界的傑出表現榮獲科工會傑出成就獎 , 紿予科工會及獎學金基金會莫大的鼓勵。

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璋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做的貢獻。

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 , 方能在全體理幹事羣策羣力下 , 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。

科工會在 2012-2013 年度推出了 LEAP (Leadership, Excellence, Aspiration, and Platform) 項目 , 對大學生和研究生熟悉和進入職場提供幫助 , 舉辦了多場職業發展研討會 , 受到了熱烈的歡迎。 2012-2013 年度啟動的另一個項目是為中學生舉辦的 STEM (Science, Technology, Engineering, Math) 科技徵文大賽 , 也引起了社區民眾的積極反響 ; 在 2015-2016 年度 , 科工會把這個項目延伸到中國 , 建立了中國賽區 , 得到了許多中國中學生的熱烈響應。科工會在 2015 年元月製作了每週一次的廣播節目 - “ 科技與生活 ” , 開南加州科技團體有定期廣播節目之先河。科工會在 2015-2016 年度也開創了商業創新競賽項目 , 為年輕人創業創新提供了一個展示的平台。

具有五十六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。



ACKNOWLEDGEMENT

2017-2018 Board Members and Officers

President: Dongmei Huang (黃冬梅)

Vice President: Hui Su (蘇慧)

Secretary: Jia Fan (范佳)

Treasurer: Manwai Szeto (司徒文偉)



Chairperson of the Board: Lan Saadatnejadi (茹蘭)

Board Members: Yu Gu (古瑜), Yutao He (何宇滔), Jill Long (葛捷), Yue Rong (容躍), Lan Saadatnejadi (茹蘭), Charles Wu (吳志鴻), Ping Zhou (周平)

Advisors: Raymond Chan (陳紹樺), Shirley Ho (何張翠殊), Wei Kao (高為雄), Dankai Liu (劉登凱), Jason Wen (溫俊山), Liping Yan (顏利平), Yang Yang (楊陽)

Executive Committee:

Convention: Hui Su

Daytime Symposium: Jill Long & Eric Wu

Website Management: Jia Fan

Awards: Charles Wu

Scholarships: Yu Gu

Public/Media Relations: Yue Rong

Fund Raising: Ping Zhou & Liping Yan

STEM: Yiu Man So & Yutao He

Membership: Zheng Yang

Anniversary Journal: Manwai Szeto

Business Innovation: Richard Ren

Volunteer Manager: Jia Fan

CESASC Board Nomination Committee: Lan Saadatnejadi (Chair), Shirley Ho, Dongmei Huang, Dankai Liu, Yue Rong, Jason Wen, Liping Yan

Convention Committee: Hui Su (Chair), Dongmei Huang, Yue Rong, Lan Saadatnejadi

Award Selection Committee: Charles Wu (Chair), Dongmei Huang, Dankai Liu, Yue Rong, Lan Saadatnejadi, Hui Su

Fund Raising Committee: Ping Zhou (Chair), Liping Yan (Co-Chair), Charley Lu, Yue Rong

CESASC Scholarship Committee/Judges: Yu Gu (Chair), John Chou, Bing Neris, Richard Ren, Zhonghe Wu, Lei Xu

Business Innovation Competition Committee/Judges: Richard Ren (Chair), Wensheng Zhou (Co-Chair), Xiwu Cao, Charley Lu, Peter Wei, Alice Wong

STEM Committee/Judges: Yiu Man So (Chair), Yutao He (Co-Chair), Thanh Diep, Jonathan So, Hui Su, Mason Tam

Daytime Symposium Committee: Jill Long (Chair), Eric Wu (Co-Chair)

Public/Media Relations Committee: Yue Rong (Chair), Ying Zhan

Keynote Speaker Invitation: Dankai Liu

Convention Entertainment: Ying He and Tsinghua University Alumni Association of Southern California Dance Team

Event Floor Manager: Jason Wen, Jonathan H. Jiang, Tase-Pyng Janice Shen

Anniversary Journal Cover Design and Convention Flyer Design: Tiantian Tracy Xia, Hui Su

Presentation Slide Design: Joe Xu

2018-2019 Board Members and Officers

President: Hui Su (蘇慧)

Secretary: Jia Fan (范佳)

Vice President: Ping Zhou (周平)

Treasurer: Yu Gu (古瑜)

Chairperson of the Board: To be elected by the board July 2018

Board Members: Yutao He (何宇滔), Dongmei Huang (黃冬梅), Jill Long (葛捷), Charley Lu (盧春雨), Lan Saadatnejadi (茹蘭), Charles Wu (吳志鴻), Ying Zhan (戰穎)



Thank you
CESASC
for inspiring
the next generation
of engineers and scientists.



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ANNA & JOHN J. SIE
FOUNDATION

“To our friends and colleagues at CESASC, we wish you continued success in this year and all the years to come. We are proud to support the Scholarship Awards and wish to congratulate this year’s CESASC Award recipients Dr. Xuemei Chen, Honorable John Chiang, Mr. Shan Lee and Dr. Fuk K. Li”



THE ANNA AND JOHN J. SIE FOUNDATION SUPPORTS THE SHARING OF KNOWLEDGE AMONGST PEOPLES AND CULTURES THROUGHOUT THE GLOBAL COMMUNITY, WITH AN EMPHASIS ON MEDIA, BUSINESS, TECHNOLOGY AND EDUCATION. THE FOUNDATION IS A SUPPORTER OF THE “SIÉ CHÉOU-KANG CENTER FOR INTERNATIONAL SECURITY AND DIPLOMACY” AT THE UNIVERSITY OF DENVER, THE STARZ FILM CENTER, CU’S “THE SIE FAMILY DOWN SYNDROME BREAK-THROUGH RESEARCH INITIATIVE”, THE LINDA CRNIC INSTITUTE FOR DOWN SYNDROME, THE DENVER SCHOOL OF SCIENCE AND TECHNOLOGY, THE DENVER ART MUSEUM, THE FESTIVAL ITALIANO, AND NUMEROUS OTHER CIVIC, SOCIAL AND EDUCATIONAL INSTITUTIONS. THE FOUNDATION ALSO SPONSORS A MANAGEMENT IMMERSION PROGRAM FOR THE MEDIA EXECUTIVES FROM CHINA AT UNIVERSITY OF DENVER.