

51st CESASC

*Annual Convention, Awards,
Scholarship Fundraiser, &
Technical Symposium*



*2013: Human,
Environment,
and Natural Resources.*



南 加 州 中 華 科 工 學 會

Chinese-American

Engineers and Scientists
Association of
Southern California



*March 30,
2013*

Hilton San Gabriel
225 West Valley Boulevard
San Gabriel, California



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 congratulate this year’s CESASC Lifetime Achievement Award Recipient Dr. Alice S. Huang, CESASC Achievement Award Recipient Dr. Andrew W. Lo, and CESASC Trailblazer Award Recipient Congresswoman Judy Chu.”



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.

CESASC 51st Anniversary Journal

南加州中華科工學會五十一週年年刊

TABLE OF CONTENTS

Content	Page No.
Message from CESASC Chair of Board and President	2
Congratulatory Letters from Various Dignitaries and Agencies	3-7
2013 CESASC Technical Symposium Program	8-10
CESASC 51st Annual Convention/Award Program	11
2013 Technical Symposium Luncheon Keynote Speaker's Biography	12
2013 CESASC Honorees' Biographies	13-15
2013 CESASC Scholarship Recipients	16
2013 CESASC STEM Essay Contest Winners	17
Performers' Biographies	18-19
Tribute to Dr. Charlie Sie	20
Thank You for Inspiring Us - In Memory of Dr. Charles Sie	21-23
Introduction to CESASC (English and Chinese)	24-25
2012-2013 CESASC Organization	26
Photo Recaptures of CESASC 50th Anniversary Gala	27
Photo Recaptures of 2012-2013 CESASC Activities	28-30
Photos - In Memory of Dr. Charlie Sie	31
Advertisements of Sponsors	32-47
2012-2013 CESASC Scholarship Foundation Organization and 2013-2014 CESASC Board of Directors	48
CESASC Past Presidents and Life Members	49
Previous CESASC Convention Keynote Speakers and Award Recipients	50
Unforgettable Moments of CESASC 50th Anniversary Gala	51-52
CESASC 50th Anniversary Corporate Award Recipients	53
The 3rd International Symposium on Materials for Enabling Nanodevices	54-55
CESASC History Project Initiative	56
CESASC LEAP Program	57
CESASC STEM Program	58
CESASC 51 st Convention Working Committee	59
Acknowledgements - List of Sponsors	60

Welcome Message from CESASC 2012-2013 Board of Directors

March 30, 2013

Dear Honorable Guests, CESASC Members and Friends,

On behalf of the CESASC 2012-2013 Board of Directors, we would like to extend you a warm welcome to the 51st CESASC Annual Convention. This year's theme is Human, Environment, and Natural Resources.

As the first annual convention after the semi-centennial celebration in 2012, it features a unique combination of legacy, tradition, and rejuvenation. The full-day event is composed of a daytime technical symposium and an evening banquet.

The technical symposium includes: (1) the luncheon keynote speech on NASA's Mars Exploration Program by Dr. Fuk Li, Director of Mars Exploration Directorate at NASA/JPL, (2) six technical sessions given by experts in variety of fields such as aerospace exploration, information technology, biosciences & medical technology, environmental transportation, geotechnical, clean/alternative energy, and humanity and social sciences, and (3) one research poster session by six 2013 CESASC Scholarship recipients. In addition, six middle/high school kids will present their ideas as winners of the inaugural CESASC STEM Essay Contest, Future Technology that can improve Human Life. It is ended with a Mingling With Scientists/Engineers Networking session.

The evening banquet features a tribute to Dr. Charlie Sie, award ceremony, keynote speeches, new CESASC board installation, and entertainment performance.

Just about month ago the CESASC family unexpectedly lost a well-respected and long-time family member, Dr. Charlie Sie. We feel that the best way to remember him is to celebrate his life with CESASC with deep gratitude. So we dedicate a tribute to him.

Three prominent Chinese Americans are recognized this year: Congresswoman Dr. Judy Chu for the inaugural Trailblazer Award, Dr. Alice S. Huang of Caltech for the Lifetime Achievement Award, and Dr. Andrew W. Lo of MIT for the Achievement Award. In addition, six college scholarship recipients and six STEM Essay Contest winners will be awarded prizes. Congratulations to all!

It has been a year full of promise. We applaud each and every one of you for your vision, accomplishment, support, and hard work towards the continued CESASC growth and its positive impact on the Chinese American community. We would also like to express our sincere appreciation to the 2012-2013 CESASC board members, 2013 Annual Convention Working Committee, and many volunteers. It is your excellent dedication and great teamwork that have made the program successful. Hope you have a great time.

Respectfully Yours,



Jason Wen, Ph.D.
Chairman of the Board, 2012-2013
CESASC 51st Convention Co-Chair



Yutao He, Ph.D.
President of CESASC, 2012-2013
CESASC 51st Convention Co-Chair



JOHN CHIANG
CALIFORNIA STATE CONTROLLER



March 30, 2013

Jason Wen
Chairman, CESASC Board
6161 Stonehaven Lane
Cypress, CA 90630

Dear Friends:

I am honored to extend greetings to the Chinese-American Engineers and Scientists Association of Southern California (CESASC) as it commemorates 51 years of success.

Since 1962, CESASC has built strong partnerships and enhanced economic growth opportunities for its members and Southern California communities. Through innovative programs, informative discussions and education, CESASC has expanded its prominence throughout engineering and science sectors. Additionally, its signature scholarship program remains committed to the higher education of engineering and science students.

This year, CESASC pays tribute to Congresswoman Judy Chu of the 27th Congressional District, Dr. Alice S. Huang of the California Institute of Technology, and Dr. Andrew Lo of the Massachusetts Institute of Technology for their work as government, engineering and science pioneers. I congratulate all of you for receiving the CESASC 2013 Achievement Award for your contributions to your field and our greater community.

I wish all involved in CESASC's 51st Anniversary celebration many more years of success.

Very truly yours,

A handwritten signature in blue ink that reads "John Chiang".

JOHN CHIANG
California State Controller

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CHAIR
LABOR AND INDUSTRIAL
RELATIONS

MEMBER
APPROPRIATIONS
ELECTIONS AND
CONSTITUTIONAL AMENDMENTS
INSURANCE
VETERANS AFFAIRS

March 30, 2013



Dear Friends:

Please accept my warmest wishes and congratulations as the Chinese-American Engineers and Scientists (CESASC) celebrate their 51st Annual Convention & Awards and 2013 Technical Symposium.

I commend CESASC Board Members and members of their continuing efforts and commitment to the Chinese-American community and the promotion of technology progressions. For fifty-one years, CESASC has been a dynamic leader in helping those in technology professions by providing career and educational advancement opportunities, global technical exchange, fellowship, mentorship and community service. It is important that we support the sciences and technology professions so that we continue to grow these industries which are California's competitive advantages.

In addition to the achievements of CESASC, I would like to congratulate this year's CESASC Achievements Award Honorees:

Judy Chu, Ph.D.
First Chinese American
Congresswoman
Trailblazer Award Recipient

Alice S. Huang
Senior Faculty Associate of Caltech and
2010-11 President of AAAS
Lifetime Achievement Award

Andrew Lo, Ph.D.
Charles E. and Susan T. Harris Professor
of MIT Sloan School of Management
Achievement Award

CESASC's leadership, achievements and outstanding contributions to the global community serve as an inspiration to everyone. Thank you for all your hard work and dedication.

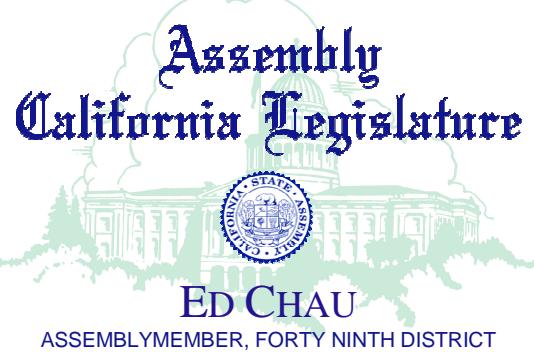
Best wishes for a memorable event.

Sincerely,

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

TED W. LIEU
SENATOR, 28th DISTRICT

STATE CAPITOL
P.O. BOX 942849
SACRAMENTO, CA 94249-0049
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DISTRICT OFFICE
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March 30, 2013

Jason Wen
Chairman
Chinese American Engineers and Scientists Association
of Southern California
6161 Stonehaven Lane
Cypress, CA 90630

Dear Chairman Jason Wen,



I am pleased to extend congratulations to the Chinese American Engineers and Scientists Association of Southern California (CESASC) on the occasion of its "51st Annual Convention & Awards and 2013 Technical Symposium" event.

CESASC is one of the largest and most established Chinese-American professional organizations in Southern California, and is dedicated to promoting the interests, aspirations and professional excellence of Chinese-American Engineers and Scientists. I especially commend CESASC and the Board of Directors for their continuing commitment to fostering the beneficial exchange of science and engineering knowledge and for providing engineering and professional knowledge and services to many technologists in Southern California.

I applaud CESASC in furthering the field of science and especially putting our youth in the forefront through your Achievement Awards and Scholarships. I extend my sincere best wishes for a successful and productive event.

Warm Regards,

A handwritten signature in black ink, appearing to read "ED CHAU". It is written in a cursive, flowing style with a long horizontal line extending from the end of the signature.

ED CHAU
Assemblymember, 49th District



Board of Supervisors County of Los Angeles

MICHAEL D. ANTONOVICH
SUPERVISOR
CHAIRMAN, MTA BOARD OF DIRECTORS

March 30, 2013

Chinese-American Engineers & Scientists Association
of Southern California
5474 W 76th St.
Los Angeles, CA 90045-3208

Dear Friends:

Welcome to the Chinese-American Engineers & scientists Association of Southern California's 51st Annual Convention & Awards and 2013 Technical Symposium.

Los Angeles County appreciates CESASC's commitment to promoting professional excellence and providing educational opportunities for youth in our community.

Congratulations also to tonight's honorees: Judy Chu, Ph.D., recipient of the 2013 Trailblazer Award; Alice Huang, recipient of the 2013 Lifetime Achievement Award; and Andrew Lo, Ph.D., recipient of the 2013 Achievement Award.

Best wishes on your continued success.

Sincerely,

A handwritten signature in black ink, appearing to read "Mike Antonovich".

MICHAEL D. ANTONOVICH
Supervisor

City of San Gabriel
CERTIFICATE OF RECOGNITION
presented to

CESASC

*In recognition of your dedication to organizing and sponsoring the
51st Annual Convention & Awards
Ceremony*

*the Mayor and City Council of San Gabriel extend
their sincere appreciation to you on this occasion.*

Dated: March 30, 2013

Kevin B. Sawkins
Kevin B. Sawkins, Mayor

M. De La Torre
Mario De La Torre, Vice Mayor

J. R. Harrington
John R. Harrington, Councilmember

Juli Costanzo
Juli Costanzo, Councilmember

D. R. Gutierrez
David R. Gutierrez, Councilmember



2013 CESASC Technical Symposium

南加州中華科工學會第 51 屆年會 科技研討會

March 30, 2013; 10:30am – 5:30pm

Theme: Human, Environment, and Natural Resources
主題：人類，環境與自然資源

Sponsor:	Chinese-American Engineers and Scientists Association of Southern California (CESASC) 南加州中華科工學會
Co-Sponsors:	NASA Jet Propulsion Laboratory Asian American Council (JPL/AAC) 美國太空總署噴氣動力實驗室亞裔員工協會
	Southern California Chinese-American Environmental Protection Association (SCCAEPA) 南加州華人環保協會
	Chinese-American Computer Association (CCA) 中華電腦學會
	International Chinese Transportation Professionals Association - Southern California Chapter (ICTPA-SCC) 國際華人交通運輸學會南加分會
	Alumni Association of South-China Medical University – North American (AASMU-NA) 南方醫科大學北美校友會
	Overseas Chinese Civil and Structural Engineering Association (OCCSEA) 海外華人土木與結構工程協會
	Chinese-American Oceanic and Atmospheric Association - Southern California Chapter (COAA-SCC) 美华海洋大气学会-南加州分会

Symposium Chair: Yue Rong (容躍), Ph.D. / SCCAEPA

(Note: To see speakers' abstracts and biographies, please go to www.cesasc.org.)

**10:30 am Session 1: CESASC College Scholarship Recipient Poster Exhibition
(San Gabriel Ball Room)**

(Session Chair: Dr. Lisa Wang 王雲霞 / OCCSEA)

2013 CESASC Scholarship Recipients:

Jinqiang Chen (陈金强) / Caltech, Rui Luo (罗睿) / UCLA, Jianshi Tang (唐建石) / UCLA,
Aolin Wang (王奥琳) / UCLA, Jun Wang (王军) / UCLA, Fei Yu (于非) / USC

11:00 am Registration and Networking (San Gabriel Ball Room)

**11:30 am – 1:00 pm Luncheon Keynote Session (San Gabriel Ball Room)
Mars Exploration Program – Past, Present and Future**

Fuk Li, Ph.D. (李復國)
NASA Jet Propulsion Laboratory

1:30 pm – 2:50 pm

Concurrent Sessions 2 - 4

Session 2: Aerospace and Exploration (San Francisco B)

(Session Chair: Dr.Jonathan Jiang 蒋红涛 / JPL/AAC, COAA-SCC)

- (1) Is Saturn's Moon Titan volcanically active? —The evidence from Cassini Orbiter observations
(Dr. Robert Nelson, Planetary Science Institute)
- (2) Building a space telescope: NASA's Wide-Field Infrared Survey Explorer (WISE) mission
(Dr. Fengchuan Liu 刘凤川 / Jet Propulsion Laboratory)
- (3) From surface to space —A taste of science hidden in the secret of haze
(Dr. Yingdi Liu 刘英迪 / Jet Propulsion Laboratory)

Session 3: Information Technology (Santa Barbara)

(Session Chair: Joseph Chen 陳中 / CCA)

- (1) IT emerging technologies and trends
(Dr. Philip Chen 陳君儀 / California State University, Fullerton)
- (2) Cyber-security concepts and practices
(Mr. Brandon Clark Parks / Los Angeles Police Department)
- (3) Cloud computing with Microsoft technology
(Dr. Peter Zhang 章華 / Zhtech)
- (4) Intellectual Property Law for the entrepreneurs
(Mr. Thomas Chan, Esq. 陳德華 / Fox Rothschild LLP)

Session 4: Humanity and Social Sciences (San Francisco A)

(Session Chair: Dr. Zuoyue Wang 王作躍 / Chinese American Professors & Professionals Net)

- (1) Intellectual Patent Law
(Ms. Elizabeth Yang, Esq. 楊安立 and Mr. Tommy Wang 王崧峰 / Yang & Wang, P.C)
- (2) Toward Establishing a Successful Technology Business
(Mr. Jeffrey Lu, CPA 陸恩廣 / Lu & Associates)
- (3) Today is Apple vs. Samsung, what holds for tomorrow?
(Mr. Charles C. H. Wu, Esq., MSEE 吳志鴻 / Law Offices of Wu & Associates, APC)

Special Session: STEM Essay Contest Winner Presentation (San Francisco C)

(Session Co-Chairs: Dr. DanKai Liu 劉登凱 / CESASC; Mr. Yiu Man So 蘇耀民 / CESASC)

2013 CESASC STEM Essay Contest Winners (Middle and High School)

- (1) Fuzzy Logic Controlled Bio-Artificial Kidney (Karinna Loo / South Pasadena High School)
- (2) Zephyride (Sara Pak, Diamond Bar High School)
- (3) 3-Dimensional (3-D) Virtual World (Evelyn Yau / Mark Keppel High School)
- (4) Curing Cancer using Man-Made Viruses (Samuel Park / Rosemont Middle School)
- (5) GeneTeller - A Handheld DNA Analyzer for Disease Detection and Prediction (Vick Liu / Flintridge Preparatory School)
- (6) Mr. Pillbot (Michael Cornish / The Academy of Aerospace and Engineering Middle School-CREC)

2:50 pm – 3:10 pm	Break
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3:10 pm – 4:30 pm	Concurrent Sessions 5 - 7
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Session 5: Environmental-transportation-geotechnical (San Francisco C)

(Session Chair: Dr. Guangyu Wang 王光宇 / SCCAEPA)

- (1) Los Angeles Metro Measure R, Highway program
(Ms. Lan Saadatnejadi 茹蘭 / Los Angeles Metropolitan Transportation Authority)
- (2) Earthquake Faults in Southern California and Potential Seismic Hazards to Your Home
(Dr. Endi Zhai 翟恩地 / Kleinfelder West, Inc.)
- (3) Current use pesticides-pyrethroids and fipronil in Southern California coastal water environment
(Dr. Wenjian Lao 劳文剑 / Southern California Coastal Water Research Project (SCCWRC))

Session 6: Bio Sciences/Medical Technology (San Francisco A)

(Session Chair: Dr. Sheng-He Huang 黃勝和 / USC)

- (1) The Omics and personalized medicine
(Dr. Xiaowei Fu 付曉薇 / University of Southern California)
- (2) A symphony in the shoot apical meristem for shoot development
(Dr. Shang Wu 吳熵 / University of California, Riverside)
- (3) A high throughput screen of environmental chemicals that promote breast cancer
(Dr. Shiuan Chen 陳瑄 / Department of Cancer Biology at City of Hope)
- (4) Pharmaceuticals: Photochemical fate and engineered water treatment systems
(Dr. Ling Wang 王玲 / University of California, Irvine)

Session 7: Energy and Alternatives (San Francisco B)

(Session Chair: Ms. Mengzhao Hu 胡蒙兆 / ICTPA-SCC)

- (1) SCAQMD perspective on hydraulic fracturing in the South Coast Air Basin
(Mr. Henry Hogo / Southern Coast Air Quality Management District (SCAQMD))
- (2) Groundwater monitoring for hydraulic fracturing processes
(Ms. Emily Vavricka / Environmental Engineering & Contracting, Inc.)
- (3) Earthquake design for buildings - Code of regulations in United States and Its comparison to Chinese code
(Dr. Shaw Zhang 张晓哲 / KPFF Consulting Engineers)

4:30 pm – 5:30 pm	Special Activities
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Students Mingle with Professionals (Santa Barbara Room)

Alumni Association Reunion (Santa Barbara Room)

Press Conference (San Diego Room)

CESASC 51st Annual Convention/Award Program

Saturday, March 30, 2013
San Gabriel Hilton Hotel Ballroom

5:30 pm	Registration and Networking	
6:15 pm	Convention	MCs: Yiu Man So & Elizabeth Yang
	Welcome Remarks	Dr. Jason Wen
	President's Report	Dr. Yutao He
	Tribute to Dr. Charlie H. Sie	Dr. Wei Kao
	Banquet	
	<i>Entertainment I – Piano Solo</i>	Sophia Dan-Yi Chen
7:30 pm	Achievement Award Presentations	Manwai Szeto
	Trailblazer Award	Dr. Jason Wen
	Congresswoman Dr. Judy Chu	
	Lifetime Achievement Award	Dr. Yutao He
	Dr. Alice S. Huang	
	Achievement Award	Elizabeth Kay-Im
	Dr. Andrew W. Lo	
	<i>Entertainment II – Baritone Solo</i>	Jay Yang
7:55 pm	Keynote Speech I: Diversity in Science	Dr. Alice S. Huang
8:20 pm	Scholarship Award Presentations	CESASC Board
	Jinqiang Chen, Rui Luo, Jianshi Tang, Jun Wang, Aolin Wang, Fei Yu	Dr. Lisa Wang
	<i>Entertainment III – Piano Solo</i>	Sophia Dan-Yi Chen
8:35 pm	STEM Award Presentations	CESASC Board
	<i>High and Middle School STEM Essay Contest Award</i>	
	<i>Grade 11-12:</i> Karinna Loo (1 st Prize), Sara Pak (2 nd Prize), Evelyn Yau (3 rd Prize)	Dr. Dankai Liu
	<i>Grade 8 -10:</i> Samuel Park (1 st Prize), Vick Liu (2 nd Prize), Michael Cornish (3 rd Prize)	
8:45 pm	Keynote Speech II: Can Financial Engineering Cure Cancer?	Dr. Andrew W. Lo
9:10 pm	CESASC Board Installation	
	2013-2014 CESASC Board Installation	
	2013-2014 CESASC President Remarks	Dr. Liping Yan
	Closing Remarks	
9:20 pm	Dance/DJ	SYM Group

2013 CESASC Technical Symposium
Luncheon Keynote Speaker

Mars Exploration Program – Past, Present and Future

Dr. Fuk Li

李復國 博士

Director of Mars Exploration Directorate, NASA/JPL

Abstract:

In the past 15 year, NASA has an active Mars Exploration Program that had sent multiple spacecraft to study the red planet. I will summarize the overall goals of this Mars Exploration Program, provide highlights of its scientific findings and describe the challenges to landing highly capable rover systems on Mars. I will also discuss the missions that are being planned for the near future.

Biography:

Dr. Fuk K. Li is director for the Mars Exploration Directorate at NASA's Jet Propulsion Laboratory since 2005. 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/pассив 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.

2013 CESASC Inaugural Trailblazer Award Recipient



Congresswoman Dr. Judy Chu

趙美心 博士

First Chinese American Congresswoman

Dr. Judy Chu was elected to the U.S. House of Representatives for California's 32nd District in July 2009. She immediately got to work representing the interests of her constituents, voting on several environmental bills and working through the night on her first day in office, during a marathon debate on important healthcare reform legislation as part of her first assignment on the House Education and Labor Committee, where she served on the Subcommittees on Early Childhood, Elementary and Secondary Education and Healthy Families and Communities.

In the 112th Congress, Rep. Chu serves on the House Judiciary Committee, where she is a member of the Crime, Terrorism, and Homeland Security and the Intellectual Property, Competition, and the Internet subcommittees. She is also a member of the House Small Business Committee, where she is leading the Contracting and Workforce Subcommittee as the Ranking Democrat and serves on the Economic Growth, Tax and Capital Access and Agriculture, Energy and Trade Subcommittees. In 2011, she was elected as the Chair of the Congressional Asian Pacific American Caucus (CAPAC).

In addition to her vote in favor of passage of the historic health care reform bill, Rep. Chu has championed a number of causes in Congress. She has used her extensive experience as a legislator and educator to help improve our nation's education system, helping pass a landmark college affordability bill to boost federal college grants and keep student loan interest rates low. Last year, she also introduced a bill that would maintain adequate federal funding for much needed school lunch programs. She has also unveiled a new framework for awarding School Improvement Grants called Strengthening Our Schools (SOS), which provides a more holistic and research-based alternative to the more punitive and overly restrictive guidelines currently used.

She has continued to work hard to help Americans emerge from the recession, co-sponsoring a bill that would extend and expand the enormously successful Jobs NOW program, which uses federal stimulus funds to subsidize jobs at the local level and has already resulted in more than 11,000 jobs in Los Angeles County alone.

Congresswoman Chu is also a strong advocate for effective, humane and progressive immigration reform, having been an original co-sponsor of the Comprehensive Immigration Reform (CIR-ASAP) bill introduced by Rep. Luis Gutierrez last year.

Congresswoman Chu began her career as an educator and taught psychology at Los Angeles City College and East Los Angeles College for 20 years. She was first elected to the Garvey School District Board of Education in 1985.

She was then elected to the Monterey Park City Council, where she served as Mayor 3 times. From there, she was elected to the California State Assembly, where she was Chair of the powerful Appropriations Committee, which has control over all legislation with a fiscal impact to the state. While in the Assembly, she introduced and helped pass the most successful tax amnesty bill in the nation, which was estimated to bring in \$300 million but actually brought in \$4.8 billion in revenue for the state budget without raising taxes. She was then elected to the State Board of Equalization, California's tax board.

Rep. Chu earned her B.A. in mathematics from UCLA and her Ph.D. in psychology from the California School of Professional Psychology.

*The 51st CESASC Convention Keynote Speaker
2013 CESASC Lifetime Achievement Award Recipient*



Diversity in Science

Dr. Alice S. Huang

黃詩厚博士

Senior Faculty Associate, Caltech

**2010-11 President of AAAS
Board Member of 80-20 NAAPAC**

Dr. Huang is Senior Faculty Associate in Biology at the California Institute of Technology (Caltech). Previously she was Professor of Microbiology and Molecular Genetics at Harvard Medical School and Director, Laboratories of Infectious Diseases at Children's Hospital in Boston, MA. She also served as Dean for Science at New York University. Among her awards are honorary doctorates of science from Wheaton College, Mt. Holyoke College, and the Medical College of Pennsylvania, the NY-American Women in Science (AWIS) Award for Outstanding Woman Scientist, and the Alice C. Evans Award from the American Society for Microbiology (ASM).

Dr. Huang is a distinguished virologist known for her ground breaking work on the molecular biology of RNA virus replication, for which she received the Eli Lilly Award in Microbiology and Immunology in 1977. The Carnegie Foundation cited her as the Pride of America in its 2009 annual promotion of contributions to America made by immigrants. She currently sits on the Boards of the Rockefeller Foundation; Waksman Foundation for Microbiology, and the 80-20 National Asian American PAC. She is a past president of the American Society for Microbiology, as well as for the American Association for the Advancement of Science (AAAS). She consults on research and science policy for universities, non-profits, academies, and government agencies in the USA as well as other countries including Singapore, Taiwan, China, and Portugal. She is a fellow of the Academia Sinica in Taiwan (1991), American Women in Science (1998), the Academy of Microbiology, and the AAAS (1999).

Dr. Huang is a private pilot, has one daughter, and resides in Pasadena, CA, USA.

The 51st CESASC Convention Keynote Speaker 2013 CESASC Achievement Award Recipient



Can Financial Engineering Cure Cancer?

Dr. Andrew W. Lo

羅聞全 博士

**Charles E. and Susan T. Harris Professor, MIT Sloan
School of Management**
Director, MIT Laboratory for Financial Engineering

Dr. Andrew W. Lo is Charles E. and Susan T. Harris Professor at the MIT Sloan School of Management, the director of the MIT Laboratory for Financial Engineering, a Principal Investigator at the MIT Computer Science and Artificial Intelligence Laboratory, and a joint faculty member in the MIT Department of Electrical Engineering and Computer Science. He is a fellow of the Econometric Society, a member of Academia Sinica in Taiwan, and a research associate of the National Bureau of Economic Research.

As one of the world's leading authorities on financial econometrics and financial engineering, Dr. Lo has permanently changed our understanding of financial market dynamics by documenting systematic deviations from the Random Walk Hypothesis in U.S. stock markets. This research contributed to the growth of quantitative portfolio management over the past two decades, and many Wall Street "quants" have learned their trade from Dr. Lo's award-winning textbook *The Econometrics of Financial Markets* which established the discipline of financial econometrics. For these contributions, he was named IAFE/Sungard Financial Engineer of the Year in 2001 by the International Association of Financial Engineers. Since then, Dr. Lo has focused on behavioral models of financial markets, conducting the first *in vivo* psychophysiological measurements of financial traders and developing evolutionary models of investor behavior that explain several outstanding anomalies such as loss aversion, risk aversion, probability matching, and randomized strategies. This line of research, and his empirical analysis of the evolution of the hedge fund industry, has culminated in Dr. Lo's Adaptive Markets Hypothesis, a new theory of financial markets that reconciles the Efficient Markets Hypothesis with behavioral anomalies. In his latest research, he is applying financial engineering techniques such as portfolio theory and securitization to create new sources of funding for cancer research and other high-risk/high-return investments.

Dr. Lo was born in Hong Kong in 1960 and emigrated to the United States at the age of five. He received his B.S. in Economics at Yale University in 1980 and his A.M. and Ph.D. in Economics at Harvard University in 1984. After a four-year stint at the University of Pennsylvania's Wharton School, he joined the faculty of the MIT Sloan School of Management where he is currently the Charles E. and Susan T. Harris Professor, and has been chairman of the Finance Group since 2008. In 2011, he was appointed Principal Investigator at the MIT Computer Science and Artificial Intelligence Laboratory and a joint faculty member of the Department of Electrical Engineering and Computer Science. He has testified before Congress on measuring and managing systemic risk in the financial system, and since 2011, he has consulted for the U.S. Treasury on these issues. He is currently a member of the Financial Research Advisory Council which advises the Treasury's Office of Financial Research, and also a member of the New York Fed's Financial Advisory Roundtable, the Chicago Mercantile Exchange's Competitive Markets Advisory Council, and the National Academy of Sciences' Board on Mathematical Sciences and Their Applications. He serves as the Chairman and Chief Investment Strategist of AlphaSimplex Group, LLC, a quantitative asset management company Dr. Lo founded in 1999.

Dr. Lo's other numerous awards include an Alfred P. Sloan Foundation Fellowship, a Guggenheim Fellowship, the Paul A. Samuelson Award, the James R. Vertin Award, the Harry Markowitz Prize, the Graham and Dodd Award, and in 2012, he was named one of the *Time 100*, *Time Magazine's* list of the "100 Most Influential People in the World."

2013 CESASC Scholarship Recipients



Jinqiang Chen 陈金强

Graduate student, Environmental Science and Engineering, Caltech

CESASC Scholarship



Rui Luo 罗睿

Graduate student, Human Genetics; UCLA

Dr. Charlie Sie Memorial Scholarship



Jianshi Tang 唐建石

Graduate student, Electrical Engineering, UCLA

Dr. Charlie Sie Memorial Scholarship



Aolin Wang 王奥琳

Graduate student, Epidemiology, UCLA

CESASC Scholarship



Jun Wang 王军

Graduate student, Electrical Engineering, UCLA

Helen Liu & Barak Bussel Scholarship



Fei Yu 于非

Graduate student, Biomedical Engineering, USC

CESASC Scholarship

CESASC would like to express its sincere thanks to the following donors for their generous support:

• **Helen Liu & Barak Bussel** • **Southern California Edison** • **The Anna & John J. Sie Foundation**

2013 Inaugural CESASC STEM Essay Contest Winners

Future Technology that Can Improve Human Life



Group 1: Grade 11 – 12

First Prize: Karinna Loo

Title: *Fuzzy Logic Controlled Bio-Artificial Kidney*

Grade: 11

South Pasadena High School

South Pasadena, CA



Second Prize: Sara Pak

Title: *Zephyride*

Grade: 12

Diamond Bar High School

Diamond Bar, CA



Third Prize: Evelyn Yau

Title: *3-Dimensional (3-D) Virtual World*

Grade: 11

Mark Keppel high School

Alhambra, CA



Group 2: Grade 8 – 10

First Prize: Samuel Park

Title: *Curing Cancer using Man-Made Viruses*

Grade: 8

Rosemont Middle School

La Crescenta, CA



Second Prize: Vick Liu

Title: *GeneTeller - A Handheld DNA Analyzer for Disease Detection and Prediction.*

Grade: 9

Flintridge Preparatory School

La Canada Flintridge, CA



Third Prize, Michael Cornish

Title: *Mr. Pillbot*

Grade: 8

The Academy of Aerospace & Engineering Middle School – CCREC

Hartford, CT



Entertainment I: Song Performance

By Jay Yang (楊捷)

1. *Habanera -- 斗牛士 from opera Carmen, compose by Georges Bizet, Libretto by Henri Meilhac and Ludovic Halévy*
2. *那就是我 -- 词，小光；曲，谷建芬*

楊捷先生是一位素養深厚的聲樂藝術家及合唱指揮家。1983年，他以優異成績考入中國北京中央音樂學院聲樂系，師從於著名歌唱家蔣英教授及楊比德教授。畢業後，曾工作於北京中央歌劇院、北京師範大學音樂系及中國海政歌舞團。在中國聲樂大獎賽中多次獲獎，同時在全國各大電視台錄制了許多獨唱節目及專題採訪，被譽為中國歌壇上一顆璀璨的金星。

1985年在北京曾榮獲全軍第一屆聲樂比賽銀質獎章，同年在哈爾濱榮獲全國聾耳，星海聲樂比賽榮獲特別優秀獎。1990年他以全額獎學金進入波士頓大學就讀，並在美國著名女高音歌唱家，聲樂教授 Philis Curtin 指導下，在音樂上獲得很大成就。馬薩諸塞州新聞時報稱贊他的聲音有金屬般的穿透力，表演有細緻迷人的風采。

1995年在美國新罕布什爾州州榮獲世界歌劇聲樂比賽第一名。他與美國尤金·奧尼爾藝術中心合作演出了美國音樂劇“異想天開”，並在劇中擔任男主角埃卡羅。英國 BBC 廣播電台將之錄成特別節目在歐洲播放。他與麻州歌劇院、新罕布夏州歌劇院、羅德島州歌劇院、及洛杉磯歌劇院合作演出，成功飾演了世界著名歌劇如“游吟詩人”、“魔笛”、“蝴蝶夫人”、“諾爾瑪”、“丑角”等歌劇中的男主角，並多次與美國許多著名交響樂團合作演出，曾在好萊塢柯達劇院演出的貝多芬第九交響樂中擔任男中音獨唱。

近年來他活躍在國內外音樂舞台上。他多次應邀回國，前往許多大專院校作音樂專題講座及演唱，並擔任北京首都師範大學音樂學院客座教授及北京市 101 中學合唱團客座指揮。楊捷先生曾在北京音樂廳、北京清華大學及美國波士頓、達拉斯、休士頓，洛杉磯及臺灣成功地舉辦個人獨唱音樂會。他曾多次應邀到臺灣演唱並授教聲樂。國內外的評論界介紹他的歌聲優美，富有彈性，音樂變化的幅度較寬，自然、流暢，演唱的風格熱情、奔放、質樸，在進行藝術表演創作時，音中有情，力求聲情並茂，用自己飽含情感的真純歌聲去感染觀眾。

楊捷先生還非常熱衷於泓揚中國文化藝術，曾在麻州波士頓市及現在在南加州六大合唱團擔任藝術指導及合唱指揮。楊捷先生在聲樂教學上的獨特美聲教法，使受教的學生領略到聲樂藝術的玲瓏優美，博大精深！

Jay Yang is a well-known and respected Bass-Baritone, the first prize winner at the Operafest America Vocal Competition and the winner in many China national vocal competitions, and one of the most popular conductors for six large choirs in Southern California.

Graduated as an honor student from China's prestigious Central Music Conservatory in Beijing. He studied with world famous soprano Phyllis Curtin. Later, he studied with the renowned master tenor Carlo Bergonzi. As a bass-baritone soloist, he has performed II Trovatore, Madame Butterfly, Pagliacci, Norma and The Magic Flute.

In the recent past, Jay worked with the Commonwealth Opera Company in Northampton Massachusetts, the Bel Canto Opera Company in Providence Rhode Island, and the Cambridge Symphony Orchestra in Cambridge Massachusetts. He also performed Beethoven's 9th Symphony at the Kodak Theatre in Hollywood, California. His Beijing Music Concert in Arcadia was broadcasted widely in the U.S. and throughout Asia and Latin America. In 2007, he held a solo performance for Taipei International Satellite TV, broadcasted from California.

Jay Yang's earlier recordings are regularly broadcasted on television stations in Beijing and Shanghai and on the Central Broadcasting Radio Station. He is frequently invited back to China to give lectures in universities and to perform at major national musical events. Last year, he was guest lecturer and performer at Xing-Hai Music School and Beijing Teacher's College. He also gave several performances and lectures across Taiwan at various venues. During the summers of 2007 & 2008, Jay Yang gave quite a few performances and lectures in Taiwan and he was highly praised.



Entertainment II: Piano Performance

By Sophia Dan-Yi Chen (陳丹怡)

1. *Chen Young : Happy Chinese Festival, arr. Sophia Dan-Yi Chen* (陳揚：歡樂中國節，陳丹怡改編)
2. *Debussy: Arabesque No.1* (德布西 第一號華麗曲)

Sophia is currently employed by Taiwan National Symphony Orchestra. She is a pianist of the elite caliber in Taiwan whose talents range from orchestra, opera, chamber music and choral music. She is also the only pianist in Taiwan who holds positions both in Taiwan National Symphony Orchestra and Taipei Symphony Orchestra. Her profound experience and amazing strength earned her continuous performance invitations. She was invited to perform for the 2009 World Games opening ceremony, and performed with Taiwan first lady Christine Chow and Taipei Philharmonic Chamber Choir at the Carnegie Concert Hall, New York. She had completed more than ten operas and nearly one hundred stage performances since performing with Taiwan National Symphony Orchestra and Taipei Symphony Orchestra. She had traveled to perform in New York, Chicago, Boston, Los Angeles, Singapore, Malaysia, China, etc. She performed with a large number of artists including conductors Neal Stulberg, Andre Thomas, Jahja Ling, Henry Mazer, Helmuth Rilling, Gunther Herbig, Frieder Bernius, Gernot Schmalfuss, Roger Epple, Martin Fischer-Dieskau, Peter Gülke, Frank Strobel, Heiko Mathias Förster, Alexander Drécar, Marcello Rota, Francesco Angelico, Massimo Zanetti, Andras Ligeti, Gabor Hollerung, Joolz Gale, Daniel Raiskin, Fred Sjöberg, Mihkel Kutson, Kare Hanken, Oleg Caetani, David Giménez Carreras, Nicholas Milton, Gisele Ben-Dor; famous international musicians including José Carreras, Renée Fleming, Andrea Bocelli, Hayley Westenra, Russell Watson, Evelyn Glennie, Juan José Mosalini, Bruno Maurice, Christiane Iven, Endrik Wotrich, Steven Isserlis, Sacha Rattle, Martin Grubinger, Xavier de Maister, Daniel Müller-Schott, Roger Muraro, Maurizio Comencini, Midori Goto, Ryu Goto, and Si-Qing Lu.

Her chamber music recordings include “*Return to Nature, Taiwan*” by Stone Music, which was ranked the No. 1 album of the “Best Selling” and the “Best Audience choice” in Eslite. The classic album “*I have dreamed*” recording with the Taiwanese Tenor Peter Lee, winner of the “Best Singing Performance” of the 20th Golden Melody Awards in 2009, received the 17th Chimei Foundation Scholarship. Her performance with the pianists Rolf-Peter Wille and Lina Yeh for the album “*30 Years of Piano Duo*” recorded by Universal Music Group, won the “Best Classical Album” and the “Best Instrumental Performance” of the 21st Golden Melody Awards in 2010.

She received acclaims from the conductors who she worked with: “She has not only the amazing skills but also the keen musicality” said by Shao-Chia Lü, the former Music Director of Niedersächsische Staatsoper Hannover in Germany. “She is one of the best musicians whom I have worked with” said by Jahja Ling, the Music Director of San Diego Symphony Orchestra.

A Tribute to Dr. Charlie Sie (謝正剛 博士)

--- from 2012-2013 CESASC Board of Directors

It is with the deepest sadness and greatest sorrow that we have learned that the CESASC lifetime member and advisor Dr. Charlie Sie passed away on Wednesday February 27, 2013.

Charlie was a 1986 CESASC Achievement awardee and a most dedicated CESASC advisor. He had always been extremely supportive of CESASC since 1981 to the very end. Most recently, he graciously accepted our invitation and delivered an inspiring and well-received opening keynote speech, *A Life of Learning and Surviving in Corporate America*, with a full-house audience at the inaugural CESASC LEAP Career Development Forum on February 23, 2013 at UCLA.

In his speech Charlie shared frankly his personal journey as a successful Chinese American, advocated energetically CESASC and importance of community dedication to all the audience, and garnered immediately many young followers on the spot. After the event, he called us on February 26 and continued to offer his strong encouragement, constructive suggestions, and insightful outlook on the LEAP and CESASC future.

Charlie set a prominent example for all Chinese Americans, humble yet courageous, smart yet diligent, passionate and caring. His passing away has been an unexpected loss to Chinese American community in general and CESASC in particular. He will be greatly missed.

In order to arrange and coordinate topics in memory of Charlie for his great contribution and dedication to CESASC, the CESASC Board has approved to form an ad hoc committee, **Dr. Charlie Sie Memorial Committee**. The committee is chaired by Wei Kao and includes: Yutao He, Shirley Ho, Eddie Liu, Jason Wen, and Liping Yan.

In honor of Dr. Charlie Sie's lasting and great contributions to CESASC and to young Chinese American professionals, the CESASC Board has approved to present two 2013 CESASC Scholarships in his name. Two 2013 **Dr. Charlie Sie Memorial Scholarship** recipients are: Mr. Jianshi Tang, a Ph.D. candidate in Electrical Engineering from UCLA; and Ms. Rui Luo, a Ph.D. candidate in Human Genetics from UCLA.

Our sincerest condolence goes to Maureen and the family. We will keep them in our prayer and thoughts.

Dr. Charlie Sie's Biography

Charlie Sie was a visiting professor at Nankai University and the vice chair of Nankai International Business Forum. He also served as an advisor for the Institute for Technology Advancement at UCLA.

Charlie retired from Xerox Corporation in 1999 as its vice president of the West Coast operation of the Corporate Engineering Center. In his twenty-two years at Xerox he held management positions in corporate reengineering, product development, software engineering and manufacturing quality. Charlie helped the establishment of Asian Caucus at Xerox.

Prior to Xerox, Charlie made the career tour through RCA, IBM, Energy Conversion Devices, and Burroughs Corporation. Charlie also served as consultant for the World Bank and Taiwan's National Science Council.

Charlie received his Ph.D. in electrical engineering from Iowa State University. His dissertation there forty years ago is the forerunner of the present day's phase change memory.

Charlie received the "History Maker Award" from the Chinese American Historical Museum in Los Angeles for his efforts in advocating the rights of the Asian-American scientists and engineers in the National Laboratories during the Wen Ho Lee espionage allegation hysteria.

Charlie enjoyed opportunities to apply cross-cultural values and cross-disciplinary understanding to technology management and business development.

剛澤茂義譽門流芳



正績業炳四海稱頌

Thank You for Inspiring Us

In Memory of Dr. Charles Sie

With our deepest condolences to his wife Maureen and his family

Henry & Lois Chi (戚文祥. 王爾樂/CESASC Founders)

I was honored to know Charlie, and count him as a good friend to me and to CESASC. I first got to know him when he was Vice President of Engineering at Xerox Corporation. He was always generous in his support of CESASC activities, the conventions and underwriting the cost of the journal. Through the years, he was dedicated to his community, and was honored in 1986 with the CESASC Achievement Award. He was a great man, and outstanding engineer in our time.

Charles & Lily Wang (王正平·李慧英/1979 President)

We are saddened to hear the news that Charlie Sie, our good friend for 39 years, has passed. He was outspoken, enthusiastic and full of energy. We have worked together for many issues, such as DiauYueTai movement, Normalization of US China relations, etc. He has collaborated with several organizations for the promotion of public opinions on the contribution and integrity of Chinese Americans. We have lost an important voice for Chinese American. We'll remember all his efforts and contributions.

Tennyson Wang (王滇聲/1980 President)

I met Charlie 1954 summer while we were sun bathing on a beach in Long Island. I was off duty from working at a Jewish Kosher hotel, and he told me he was working at the same hotel the previous summer. We exchanged gossips and became friends. The next time I saw Charlie, he was on his way to become a VP. Charlie, may you rest in peace and as happy as when we were on the beach.

Timothy Yu (余家煜/1982 & 1983 Vice President)

What stood out most about Charlie, as a friend, is his voracious inquisitive mind: the whole world seemed to be a candy store to this kid. This is probably one of the factors contributing in his great success in all aspects of life. From my vantage point, he definitely had lived it to the fullest. Thanks for the memories, Charlie.

Shui-Lin Chao (趙瑞麟/1986 President)

Charlie received Achievement Award from CESASC in 1986. Among top managers received CESASC's awards, I could not think of any one continuously devoted to CESASC activities as much as him. Besides, he never failed to speak up for Chinese American if someone was treated unfairly, come out fast to defend their human rights, like the famous Wen-Ho Lee case. I sincerely hope all those recognized by CESASC will follow his courage and vision to fight for the equality of all Chinese-Americans.

Sherman Yu (于善元/1987 President)

My wife, Anna, and I first met Charlie in New York City back in 1954. As oversea Chinese students, our best time during holidays was spent together at Sino-American Amity, 86 Riverside Drive. Charlie was always the cohesive force that brought everyone together for so many fun activities. We miss him and feel extremely blessed to have him as friend. May he rest in peace.

Chih-Ming Ho (何志明/1988 President)

I met Charlie more than 30 years ago. He impressed me as a person with a warm heart, was enthusiastic with a positive attitude, and full of energy. He did not change a bit in our last meeting a few weeks ago. He was a true leader of the Chinese-American community.

Wei Kao (高為雄/1989 President)

相識四十二載，如師如友，深蒙教誨。怎奈驟然泰山其頽，哲人其萎！猶記去歲同赴武漢論壇，心懷兩岸鄉邦，高風讌論，深受尊崇；咸寧九宮山之遊，好友共享鄉村野趣，歷歷在目，恍如昨日。平生高材博學，君子無爭，更具赤子之心。提攜後進，諄諄不倦，又每見不平，挺身而出。今忽而永別，實傷痛無已，兄雖仙去，風範永存！

Edward Liu (劉漢忠/1990 President)

Dr. Charlie Sie, an inspirational man sets a role model for all Chinese American scientists and engineers, humble with intelligence, passionate with love. Charlie was a brilliant leader with vision who made valuable contributions to American and international societies. His passing is a great loss and will be remembered by the generation of our time.

George Chao (趙家鈞/1992 President)

我印象中的謝正剛博士是一位正直誠懇而又謙恭和藹的長者。他在事業上的傑出成就被列入美國華裔百人會，這項榮耀是我們南加科工界的驕傲。記得我擔任 CESASC 會長時，他給了我們許多寶貴的建議與支持。如今南加州失去了一位科工界的典範！CESASC 也失去了一位良師益友，而 Charlie 的音容笑貌將長留在我們心中。

Chun-I Philip Chen (陳君儀/1995 Secretary)

Dr. Charles Sie was a scholar, community leader and truly a role model who had inspired many Chinese Americans by his unique example. We forever will cherish his memory and his contributions.

Tientsai Yang (楊添才/1997 President)

Charlie Sie was not only an outstanding scientist but also a great technology and business leader. He pioneered 'Phase Change Memory' technology, became VP of Engineering at Xerox, and was founding member and Vice Chairman of Committee of 100. A wonderful warm human being will be missed deeply!

Kang L. Wang (王康隆/1997 Achievement Award Committee Chairman)

Charlie was a wonderful friend and an inspiration to me. He was a leader and always strived for the equal rights of Chinese Americans. He was passionate in his technical pursuits. His pioneering work of phase change memory dated back to his graduate school set the foundation of today's technology. To his last day, he worked continuously to perfect it.

Munson Kwok (郭民生/1998 President)

Dr. Charlie Sie was an impacting American activist. His work was through Committee of 100, of which he was founding vice president. Representing Chinese American Citizens Alliance, I was privileged to work with him on several issues. Together, we initiated a coalition to gain justice for Dr. Wen Ho Lee. Charlie had a profound sense for justice and fair play. He was never shy to speak or act for justice. He was fearless. Our first bond was in CESASC. I will miss his camaraderie in the next worthy fight.

Jiin-Jen Lee (李錦珍 1998 Vice President)

I am shocked to hear the passing of Charlie. We just had a meeting with Charlie at Caltech to discuss ways to help CESASC and the next generation of leaders to carry on the legacy of CESASC. Charlie as always was full of energy and ideas. We are forever grateful for his loving attitude and his commitment to excellence and the fine example of service he had set.

Yu-Chong Tai (戴聿昌/1999 Achievement Award recipient)

我所知道的 Charlie: 學識淵博, 但待人和善; 交遊廣闊, 却淡泊名利;
樂善好施, 從不遺餘力; 打抱不平, 為華人喉舌。

Sheng-Rong Lin (林勝榮/2000 President)

Besides being in the upper management in a Corporate America engineering company, Dr. Charlie Sie has also contributed to the Chinese American communities, promoting the value, contributions, and the right of Chinese Americans. Charlie was a founding member of Committee of 100 and a valuable adviser of CESASC. We are sure to miss Charlie's innovation, passionate and mentoring.

Shirley Ho (何張翠妹/2004 President)

正績業炳四海稱頌 創澤茂義譽門留芳

For your wisdom and broad knowledge, you have been highly praised throughout the world.

For your enthusiasm and loving support, you will be remembered by thousands of youth.

March 9th, 原本與您同為詩詞朗誦裁判, 期能再度共聚一堂, 然您已匆匆仙去, 徒留

南灣中文齊聲哀悼 詩詞雅會師生同悲

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

He has participated in many meetings of CESASCSF and is taking the leadership in formulating the concept and approach on telling the stories of Chinese American engineers and scientists' contribution to major breakthroughs or milestones of many technical fields and projects. We really appreciate his insight and guidance over the years and will carry on his vision to launch the project and see it through.

Sikun Lan (藍思堃/2006 President)

Deepest condolences to the tireless and inspirational Dr. Sie! I just met him in December on an event with former Peking University President Xu, Zihong. Can't believe it!!

Wensheng Zhou (周文生/2009 President)

Very sadly, we've lost a great scientist, friend, and mentor, Charlie Sie. Charlie has always been extremely warmhearted and generous to help people at any time whenever he felt that you might need it. I valued the good times which we spent together in Hubei last summer. He then invited me to a presentation where Charlie shared his research experiences on Phase Change Memory. Charlie setup a wonderful example for all of us, and we will keep him in our memories forever.

Yutao He (何宇滔/2012 President)

Charlie sets a prominent example for all Chinese Americans, humble yet courageous, smart yet diligent, passionate and caring. His passing away has been an unexpected loss to Chinese American community in general and CESASC in particular. He will be missed.

Joseph Chen (陳中/2012 Board Member)

謝正剛博士是一位傑出的科技權威及熱心公益的社區領袖, 經常鼓勵專業後進致力探討新的科技領域, 並躊躇出席各種性質的科技研討會。謝博士成就非凡, 堪稱吾輩之楷模。惜本會導師劇隕, Charlie, 請安息!

Zuoyue Wang (王作躍教授/Dept. of History, Cal. Poly. Pomona)

Dr. Charlie Sie was a brilliant scientist/engineer who made valuable contributions to American and international science and technology. He was also a great leader of the Chinese American community and helped fight for equal rights for everyone. His passing is a great loss to all but his spirit will live on.

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 Symposiums

In an effort 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 further co-sponsored with UCLA to host an International Symposium on Materials for Enabling Nanodevices (ISMEN). The success of this conference enabled CESASC to establish models for future collaboration with academic institutes in the United States.

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 Symposiums. 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)成立於1962年，為一非營利專業團體，並係南加地區歷史最悠久、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多所大學及高科技企業公司的華裔專業人士聯合組成的科技組織，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，以及就業與教育相關資訊分享。2011年本會更榮獲華美博物館 (Chinese American Museum) 第十五屆歷史締造者傑出科學暨工程獎 (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成就獎得主均為一時之選，包括諾貝爾獎得主楊振寧博士、李政道博士、丁肇中博士、李遠哲博士及高錕博士、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、錢煦博士及朱經武博士、以及美國前勞工部趙小蘭部長、UC Berkeley 校長田長霖博士、UC Santa Barbara 校長楊祖佑博士、1996 TIME Magazine Man of the Year 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本會學術交流活動及在年會中發表專題演講。

本會於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，近年來本會更與洛杉磯加大(UCLA)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本會成立至今的主要目標之一，1987年Scholarship Foundation獎學金基金會成立，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，得獎同學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，本會亦多次舉辦青少年科工競賽，獲得學子及指導教師的大力支持。值得一提的是，1986年獎學金得主Brown Univ. Sophomore 廖敏妃同學(現為 Professor and Director of UCLA Brain Tumor Program, UCLA Medical School)，更於2006年以其在醫學界的傑出表現榮獲本會成就獎，給予本會及獎學金基金會莫大的鼓勵。

八十年代末，本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，本會亦曾協助吳家瑋校長籌集資金與網羅人才，創辦香港科技大学。美國前國會議員及國會 House Committee on Science and Technology 前主席 George E. Brown, Jr., 曾在本會1994 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，積極吸收新血，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。

科工學會在 2013 年最新推出了 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。首次在 UCLA 舉辦的職業發展研討會受到熱烈的歡迎。2012-13 啟動的另一個項目是為中學生舉辦的 STEM (Science, Technology, Engineering, Math) 科技征文比賽，也得到了社區的積極相應。今后，科工會將進一步積極參與主流社會的活動，加強和其他社團的合作，更多的為年輕學子們提供諮詢和服務。

2012-2013 CESASC Organization

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Scholarship Committee: Lisa Wang*, Wen Cheng, Yutao He, Hui Su, James Wang

STEM Project Committee: Dankai Liu*, Yutao He, Eastwood Im, Yiu Man So

STEM Essay Contest Committee: Yiu Man So*, Haodong Chen, Jun Deng, Dankai Liu, Lingyan Ruan, Yan Qu, Angela She, Yi Yang

Dr. Charlie Sie Memorial Ad Hoc Committee: Wei Kao*, Yutao He, Shirley Ho, Eddie Liu, Jason Wen, Liping Yan

Membership Committee: Mingsong Yin*, Yutao He, Manwai Szeto, Peter Zhang

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Photo Recapture of CESASC 50th Anniversary Gala



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Row 1: Twenty eight former presidents of CESASC attended CESASC 50th Convention.

Row 2L: Henry and Lois Chi, CESASC Founders, were honored during the 50th Gala (L).

Row 2R: Dr. Li-San Hwang (Lifetime Achievement Award Recipient/L2), Dr. Shu Chien (Keynote Speaker/L3) and Dr. Cun-Yu Wang (Achievement Award Recipient/R2).

Row 3L: Appreciation Award Recipients Cc Yu, Dr. Jiin-Jen Lee, Li-Jean Wang and Suellen Cheng (L2-L4).

Row 3R: Panelists and Scholarship Recipients in the Generation Dialogue between Present and Future.

Photo Recaptures 2012-2013 CESASC Activities – I



2012 and 2013 Presidents with Congresswoman Dr. Judy Chu



2013 CESASC Board Swears-In



2013 CESASC Board Holds the First Board Meeting



CESASC Booth at 2012 KCET-18 Harvest Moon Festival at Arcadia Park



CESASC and JPL/AAC Volunteers at the CESASC Booth



Dr. Dankai Liu Explains Curiosity Rover to a Young Visitor at the CESASC Booth



CESASC Members with Dr. Michael Duchemin at 2012 CAM Historymaker's Awards Banquet



CESASC Holds a Jointed Seminar: "Out of Curiosity" in Collaboration with CAPS and SCMJ

Photo Recaptures 2012-2013 CESASC Activities - II



Audience at the “Out of Curiosity” Seminar



Hua Zheng and Jason Zheng of JPL/AAC Give a Talk



Dr. Yen Jen of JPL/AAC Gives a Talk



CESASC Members and Friends at
2012 CAPS Annual Convention



CESASC Members and Friends at
2012 CIE-SoCal Annual Convention



CESASC Members Attends 2012 TMMC Meeting



CESASC Members and Friends at
2012 CTUAA Annual Convention



CESASC Representatives Participates in
the 2012 TMCC Fashion Show Fundraising

Photo Recaptures 2012-2013 CESASC Activities - III



**Dr. Dankai Liu Announces
2013 Inaugural CESASC STEM Essay Contest**



**CESASC Families at the 2013
Chinese New Year Party**



**Dr. Charlie Sie Delivers the Keynote
Speech at the Inaugural CESASC LEAP Forum**



**Prof. Dean Ho of UCLA Make a Presentation
at the Inaugural CESASC LEAP Forum**



**Panel Discussion
at Inaugural CESASC LEAP Forum**



The Inaugural CESASC LEAP Forum at UCLA



CESASC Appreciation Party on May 6, 2012



**CESASC Board Members at the Press Conference on CESASC
51st Annual Convention**

In Memory of Dr. Charlie Sie

(September 12, 1934 – February 27, 2013)



With 1981 CESASC Achievement Awardees Dr. Kuen Kao (高鋐) and Dr. San-Chiun Shen



Presents 1981 CESASC Service Award to Dr. S. A. Fung



Co-Chairs 1982 CESASC Awards Committee with Dr. Catherine Kwan



Honored with 1986 CESASC Achievement Award



Meets President Clinton on Wenho Lee Case on June 7, 1999



Speaks at 2005 CESASC Convention



With 2005 CESASC Achievement Awardees Prof. Fujia Yang and Dr. Man-Chung Tang



Attends 2010 CESASC Technical Symposium



Hands out Lucky Money with Maureen to CESASC Kids at 2011 Chinese New Year Party



Mentors 2011 CESASC Scholarship Recipients



2012 CESASC Annual Convention Journal Meeting



2012 CESASC Scholarship Foundation Committee Meeting



CESASC Scholarship Foundation History Project Meeting on February 8, 2013



Delivers Keynote Speech at Inaugural CESASC LEAP Forum on February 23, 2013



Attends Inaugural CESASC LEAP Forum on February 23, 2013

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Years ago, we left our family and friends and everything familiar to come to this country of opportunities. We obtained advanced degrees and worked hard to establish ourselves in various industries and academic fields. Many of us are successful today in that we have respectable careers and beautiful homes to live in with our loved ones. But is that all there is? What was it that we were really seeking when we set foot on this land? Is there still deeper truth to be found in the life we once left behind?

CESASC Lifetime member Huaiyu Helen Liu's debut book, Besieged In Rome (《罗马·突围》怀宇著, 重庆出版社, 2012年10月), evokes such reflection. In the eleven novellas and short stories in this collection, Helen inspects mainstream American society from a fresh perspective and displays the hidden inner world and sentimental attachments of young Chinese elite. Some of us know Helen as a venture capitalist investing in technology startups, or as a development manager from the world's largest enterprise software company, but few know her as a fiction writer. When asked how she relates her work to her hobby, Helen replies that everything she experiences is in preparation for her next novel.

Besieged In Rome was published in Chinese and is available in major bookstores in China and from online booksellers such as Amazon China, Dang Dang and 360buy.com. It has been well-received by Chinese readers and won acclaim from important Chinese writers and critics.



“本书所写，是凌跨国境线的精神‘突围’，展示这一过程的人性面具和本相，它所抵达的广阔度和深刻度，堪称出类拔萃。”
——华裔作家刘荒田

“她（怀宇）笔触所描写的比别人更加开阔，具有国际视野，不少作品以国际大都市作为人物活动的舞台……从洛杉矶到耶路撒冷、罗马、北京，人们看到的不再只是华人圈子里的事情，作家把

‘真相的刀锋’伸向从城市到郊外，从现实到幻想的各个领域，试图超越国家、种族、语言的樊篱……而怀宇的文学表达，之所以显得格外耐读，是因为独具智性、感性与灵性之特色，语言温润而不甜腻、华美而不浮躁，能够让人回味绵久。”

——文学评论家梁鸿鹰

“文学所以神圣，因为她是人学社会学，无论盛世乱世平庸世道浮世，她都能以其独有的敏慧冷峻深邃，给人以警示以告诫以救赎。我以为，由重庆出版集团出版的美籍华裔女作家怀宇的《罗马·突围》即是一部这样的作品。”

——编剧及文学评论家李硕儒

“如果说以往的海外文学作品是一扇窗，让房间里的人看到窗外的风景，那么，我感觉，《罗马·突围》是一步阶梯，拾级而上，就走出了房间，置身于四面奇异的风景之中。”

——读者三笑

“一口气看完《华丽派对》。看到爱与欲，自我的反思与矛盾，亲密关系中的修行，给我许多启示。”

——搜狐读者



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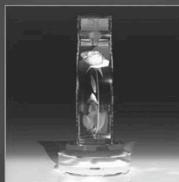
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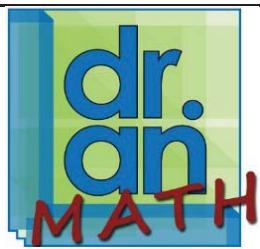


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深圳清华大学研究院北美创新创业中心

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2010年1月，深圳清华大学研究院在硅谷创立了深圳清华大学研究院北美创新创业中心，并在洛杉矶设立了办事处。中心致力于引进创新创业人才，建设实验室研发平台，投资、孵化初创企业，成为海外人员日常交流、合作发展和回国创业的中心。中心的目标是在五年内，引进200个创业团队、在北美孵化30家企业，设立1000万美元的天使基金，辅助创业。同时帮助中国的企业走向海外，走向国际化。

深圳清华大学研究院成立于1996年12月，由清华大学与深圳市政府合作共建，目标定位于推出自主创新的应用成果，加速科技成果产业化，孵化高新技术企业，培养高层次人才。深圳清华大学研究院目前在深圳、无锡设有两个基地，成为珠三角、长三角等地区引进高层次人才创业的窗口。研究院享有清华大学科技人才优势，在引进人才项目发展、创业等方面给予支持，领域涉及电子信息技术、光机电与先进制造、生物医药及先进材料、新能源与环保技术等，仅2010年已孵化四家企业在中小板和创业板上市。胡锦涛总书记、温家宝总理先后到访深圳清华大学研究院，对研究院的发展给予了高度评价。



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51st Annual Convention*

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公司简介

平安中心由曾任南加州中国科技大学校友会会长，在金融保险业有过十多年经验的李先进博士创立。中心于2011年11月注册成立，现阶段主要提供人寿、汽车、房屋和商业保险服务。

为改革人寿、汽车、房屋保险业重价格，轻服务现状，平安中心致力于提高客户保险意识，为客户提供全心全意的服务，以确保客户充分了解所购保险产品，最大程度降低风险损失。公司的宗旨是成为客户人身和财产安全的最坚实后盾。

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1969	Wallace W. Booth	1992	Hon. Julia Chang Bloch (張之香)
1970	Walter F. Burke	1993	Dr. David S. C. Chu (朱思九)
1971	William B. Bergen	1994	Hon. Frederick F. Y. Pang
1972	Richard F. Walker	1995	Dr. Henry C. Lee (李昌鈺)
1973	Dr. Yu-Hsiu Ku (顧毓琇)	1996	Dr. Henry T. Yang (楊祖佑)
1974	Prof. T. Y. Lin (林同棪)	1997	Mr. Gareth C. C. Chang (張鎮中)
1975	Bruce H. Billings	1998	Dr. David Ho (何大一)
1976	John Stuart Foster, Jr.	1999	Dr. Yu-Chong Tai (戴聿昌)
1977	Mr. Steven W. Leong	2000	Mr. John S. Chen
1978	Dr. Samuel C. C. Ting (丁肇中)	2001	Dr. Yuan Tseh Lee (李遠哲)
1979	Dr. Joseph T. Ling	2002	Mr. John Chiang (江俊輝)
1980	Dr. Chen Ning Yang (楊振寧)	2003	Dr. Chih-Ming Ho (何志明)
1981	Madam Anna Chennault (陳香梅)	2005	Dr. Henry T. Yang (楊祖佑)
1982	Dr. Chien-Shiung Wu (吳健雄)	2006	Prof. Fujia Yang (楊福家)
1983	Dr. Yuan-Cheng Fung (馮元禎)	2007	Mr. John J. Sie (謝誠剛)
1984	Dr. Hua Lin	2008	Mr. Wing T. Chao (趙永濤)
1985	Dr. Eberhard Rechtin	2009	Dr. Mau-Chung Frank Chang (張懋中)
1986	Theodore J. Wong (黃華焦)	2010	Dr. Leroy Chiao (焦立中)
1987	Rear Admiral Ming. E. Chang	2011	Dr. Frank Hsia-San Shu (徐遐生)
1988	Dr. Shu Chien (錢煦)	2012	Dr. Shu Chien (錢煦)
1989	Elaine L. Chao (趙小蘭)	2013	Dr. Alice S. Huang (黃詩厚)
1990	Mayor General William S. Chen		Dr. Andrew W. Lo (羅聞全)

CESASC Award Recipients 1962-2013

CESASC has given various awards, which include (1) Lifetime Achievement Award, (2) Achievement Award, (3) Young Achievement Award, (4) Trailblazer Award, (5) Appreciation Award, (6) Service Award, and (7) Corporate Award. For complete lists of award recipients, please visit CESASC website: <http://www.cesasc.org>.



Unforgettable Moments of CESASC 50th Anniversary Gala - I

- Row 1L: CESASC 50th Anniversary Gala
- Row 1R: Dr. & Mrs. Shu Chien/Dr. Cun-Yu Wang with friend at the Opening Reception
- Row 2L: Dr. Li-San Hwang with friends
- Row 2R: Certificate Presentation from SCCAEPA
- Row 3L: CESASC History Poster Display (1)
- Row 3R: CESASC History Poster Display (2)
- Row 4L: Millennium Biltmore Hotel

南 加 州 中 華 科 工 學 會



Unforgettable Moments of CESASC 50th Anniversary Gala - II

- Row 1L: Frank Wang, Wei Kao, Hon. Mike Eng, Munson Kwok, Charles Wang (L-R)
- Row 1R: Hon. Judy Chu presented certificates to Board Chair and President, S. Ho. & J. Wen.
- Row 2L: Munson Kwok & Elizabeth Kay Im, Masters of Ceremonies
- Row 2R: Marina Kao, Linda Hu, Suellen Kwok (L-R), Registration Committee members
- Row 3L: Guests from the Raytheon Company at the Banquet
- Row 2R: Jet Propulsion Laboratory Booth Display
- Row 4L: Sherman Yu, Wei Kao, Shirley Ho and George Chao enjoy the new CESASC banner.
- Row 4R: Two Scholarship recipients chat during the Opening Reception

CESASC 50th Anniversary Corporate Award Recipients

Jet Propulsion Laboratory

Jet Propulsion Laboratory (JPL) is a federally funded research and development center and is managed by the California Institute of Technology (Caltech) for the National Aeronautics and Space Administration (NASA). The Laboratory's primary goal is to serve the nation by exploring space in the pursuit of discoveries that benefit humanity. JPL has collaborated with CESASC over the last 20 years in promoting and inspiring the next generation of explorers, scientists and engineers.

Raytheon Company

Raytheon is an Aerospace and Defense Company providing its systems and solutions to the U.S. Department of Defense agencies and to foreign military customers. Raytheon has partnered with CESASC over the last 9 years in promoting excellence in engineering, science and mathematics. In recognition of Raytheon's contribution to national security, innovations in technology and the commitment to workplace diversity and support of community and education, CESASC presented a Corporate Award to the **Raytheon Company** during the 50th Anniversary Gala held on April 22, 2012.

Torrance Memorial Medical Center

Torrance Memorial Medical Center, a nonprofit medical center, has provided an array of medical and healthcare services to the South Bay community since 1925. We are deeply honored to have them featured as part of CESASC technical programs in 1997 and 2000. In recognition of TMMC's exemplary healthcare services and community support, CESASC presented a Corporate Award to the **Torrance Memorial Medical Center** during the 50th Anniversary Gala held on April 22, 2012.



R1: Shan Lee, Chairman of the Board, CESASC Scholarship Foundation
R2-R4: Dr. Yuhsyen Shen, Yiuman So and Thomas Chan, representatives of
Jet Propulsion Laboratory, Raytheon and Torrance Memorial Medical Center

(Written by Shirley Ho)

The 3rd International Symposium on Materials for Enabling Nanodevices (ISMEN-III)

第三屆奈米材料暨奈米應用元件國際研討會

CESASC would like to extend our sincere thanks to the ISMEN Special Project Committee, chaired by Dr. Wei Kao, 1989 President, and assisted by Dr. Yutao He, Shirley Ho, Manwai Szeto and Dr. Wensheng Zhou. Through the Committee's dedication and hard work, the Conference marked the first time in CESASC History that a fundamental science oriented conference was co-sponsored by CESASC together with international higher education institutes.

HISTORY

As we approach the end of Moore's law on microelectronic technology, a new paradigm is needed in order to combine the bottom-up self-assembly process and top-down lithographic fabrication for enhancing the transition from micro to nanotechnology. A wide range of nanoscale materials and nanostructure-modified bulk materials with unique and technologically appealing properties is available. Opportunities in innovative materials research for enabling nanodevices are growing. Materials research is the rich ground for cross-fertilization among CMOS electronics, optical communication, MEMS/NEMS, energy, environment, healthcare, and biomedical devices, as well as 3D IC systems packaging for practical applications. In an effort to promote information exchange, ISMEN-I held in National Cheng Kung University, Tainan, in September 2008, and ISMEN-II held at UCLA in September 2010, were very well received by the attending professionals.

ISMEN-III

The 3rd International Symposium on Materials for Enabling Nanodevices (ISMEN-III), aimed to reach the same goals as ISMEN-I and ISMEN-II, was held at the UCLA California NanoSystems Institute, August 27-29, 2012. In addition, ISMEN-III was dedicated to **Professor James C. M. Li** of the University of Rochester to honor his lifetime contributions to micro-mechanics and materials science.

ISMEN-III provided a forum for researchers around the world to exchange ideas and findings about the latest advances in materials properties, processes, and integration in areas of nano science and technology. Among the broad range of topics in nanotechnology, micro- and nano-mechanics, nanomaterials, and nanodevices were covered. Furthermore, nanomechanical behavior in stress related phenomena in nanoscale materials were equally emphasized. During the three day Symposium, one keynote talk, twenty three plenary talks, and twenty invited talks were arranged. Additionally, a twenty graduate student research poster session was presented to the participants as well. The Program Outline is listed as follows:

August 27, 2012

Opening Remarks: Prof. James S. Economou, Vice Chancellor for Research, UCLA
Prof. Vijay Dhir, Dean of Henry Samueli School of Eng. and Applied Science
Dr. Chia-Pei Chou, Director of Science & Technology Division, TECO, LA

Plenary Presentations I: Micro-Mechanics of Advanced Materials-1

(Session Co-Chairs: Prof. K.N. Tu and P. Sheng)

Plenary Presentations II: Micro-Mechanics of Advanced Materials-2

(Session Co-Chairs: Prof. T. Zhang and S. Lee)

August 28, 2012

Plenary Presentations III: Nano-Mechanical Behavior of Advanced Materials

(Session Co-Chairs: Prof. J. Yang and K.W. Wei)

Invited Presentations A (Session Co-Chairs: Dr. H. Zhang and J. G. Duh)

August 29, 2012

Plenary Presentations IV: Nanomaterials, Nano- and Micro-Devices

(Session Co-Chairs: Prof. F.S. Shieh and Y. Li)

Invited Presentations B (Session Co-Chairs: Prof. C. Kao and J.S. Chen)

Through the co-sponsorship of CESASC, Dept. of Materials Science and Engineering, UCLA, National Chiao Tung University, the Hong Kong University of Science and Technology, Graduate Program for Science and Technology of Accelerator Light Source, NCTU, and Hysitron, Inc.; and co-support of the Taiwan National Science Council and the Science and Technology Division of TECO, the 2012 ISMEN-III was considered a big success. Special thanks go to distinguished scientists from China, United Kingdom, Hong Kong, Singapore, Taiwan, and USA for their participation and contributions. We highly commend Prof. King-Ning Tu, a faculty of Dept. of Materials Science and Engineering, UCLA and an Academician of the Academia Sinica, Prof. Tzeng-Feng Liu, NCTU, and Prof. Ping Sheng, HKUST, Symposium General Co-Chairs, Executive Committee and Program Committee members. Without their superb leadership and team efforts, we could not have accomplished as much as we did.

For program details, please refer to ISMEN-III Website: <http://ismen.seas.ucla.edu>.

第三屆奈米材料暨奈米應用元件國際研討會，於 2012 年 8 月 27-29 日假洛加大 California NanoSystem Institute (CNSI) 圓滿舉行。此次研討會係由南加州中華科工學會 (CESASC)、洛加大材料科學暨工程系、台灣國立交通大學及香港科技大學聯合主辦，協辦單位尚包括 CNSI, UCLA, Hysitron, Inc., 及國家同步幅射研究中心光源學程等。此次會議特別表彰了 Prof. James C. M. Li, Univ. of Rochester 長久以來在 micro-mechanics and materials science 領域的傑出貢獻。為時三天的會議中，出席者甚為踴躍，分別來自中、英、港、星、台、美等地，除逾四十位專家發表論文外，二十位研究生並精心製作了研究成果 Poster Display。本次國際奈米會議，承蒙台灣國科會及駐洛杉磯台北經濟文化辦事處科技組鼎力相助，前 TECO 科技組組長周家蓓博士專程與會並致歡迎詞，特此申謝。此外，在 General Co-Chairs, Executive Committee and Program Committee 及工作團隊的同心協力並積極參與下，ISMEN-III 國際研討會成績斐然，中華科工學會衷心感佩，並耑此致謝。



L-R: Prof. Jenn-Ming Yang, Chair,
Dept. Materials Science & Engineering, UCLA,
Dr. Wei Kao, CESASC Advisor,
Dr. Chia-Pei Chou, Director of Science &
Technology Division, TECO, Los Angeles,
Prof. James C. M. Li, Keynote Speaker,
Prof. King-Ning Tu, Conference Chair,
Shirley Ho, CESASC 2011 Chairwoman of the Board



ISMEN-III Working Committee
Front L-R
Shirley Ho, Rosa Liu/TECO and Gary Mei/ TECO
Back L-R
Dr. Yutao He, Dr. Wei Kao,
Prof. J. M. Yang and Manwai Szeto

(Written by Shirley Ho)

History Project Initiative

Before we celebrated CESASC's 50th year anniversary last year, CESASC Scholarship Foundation has been planning and working on an initiative called "History Project." The main goal of this project is to document the Chinese American engineers and scientists' life stories, experiences and their contributions to the advancement of science and technology in the past.

Chinese Americans have come a long way from railroad workers and miners in the mid nineteenth century. Since the repeal of Chinese Exclusion Act in 1943, Chinese Americans finally had more choices in life and the door of opportunities was finally open for the family to reunite, for the students to seek higher education here from overseas, for a new wave of immigration from Taiwan, Hong Kong, Mainland China and South East Asia. Chinese Americans have accomplished a lot in the last seventy years since WWII. Just in the field of science and engineering, the membership of CESASC is a live testimony of that history. We have so many extinguished scientists and engineers who made significant contributions to our nations' space programs, defense systems, semiconductor industries, personal computers, cellular phones, consumer electronics, etc. For all the inventions that put the USA as number one in the world and shaped and defined the modern life styles, there is Chinese Americans' involvement in them. But the sad thing is that not many people know about the stories behind them and the history will be lost very soon if the stories are not told.

As the largest Chinese American professional association in Southern California, CESASC feels that we have the obligation and best resource to tell the story, since many of our members, past officers and awardees are the group of people that are part of the big story. But with limited time and resources, the immediate challenge is Where do we start? Which story we should tell first? What will be the final products? Many meetings were held by a group including Messrs. Eddie Liu, Munson Kwok, Charlie Sie, Wei Kao, J. J. Lee, Eastwood Im, Yutao He and Liping Yan; and many ideas were suggested and debated. We decided that the initial effort will focus on the people and events in Southern California and expand it geographically outward when budget and time allow.

We have launched an oral history project where a list of people have been identified and will be interviewed with their stories documented. There is a real urgency to do this since there are many important people that we want to interview are in their 80s and 90s. It is especially hurting when Dr. Charlie Sie passed away unexpectedly recently. He had been providing the leadership role in putting together the stories and he himself is one of the people that we want to get the oral history completed. Our very first interview is with Mr. & Mrs. Henry and Lois Chi, the founders of CESASC and CAFA (Chinese American Faculty Association), with the help from Prof. Zuoyue Wang of History Department in CalPoly Pomona as the interviewer.

We have been working with Chinese American Museum with the idea that once we have enough stories, a museum exhibit could be developed and visitors at the museum will have a chance to learn about the people and their contributions. We will host the stories and people on our website and plan on publishing books and producing documentaries in the future. I would like to thank Dr. Charlie Sie for his vision and help in shaping this project and we will carry on this mission as a tribute to him. This is a very challenging project and we need all the help we can get. If you would like to help us accomplish this goal, please let us know.

(Written by Shan Lee)

LEAP Career Development Forum



LEAP (Leadership, Excellence, Aspiration, and Platform) is a career development forum that was launched in 2012-2013 as part of CESASC's new initiative to strengthen its members' communication and to help develop the members' professional growth.

LEAP is committed to provide career-related guidance, education, mentorship and opportunities to Chinese American professionals working in America throughout their career. LEAP plans to hold regular events including conferences and professional seminars. Additionally, LEAP provides the mentor program to help attendees develop strong leadership skills and achieve professional excellence.

LEAP strives to develop a platform to foster great aspiration and leverage professional networking.

LEAP's vision is to become a trustworthy and sustained platform for career development and professional growth of Chinese Americans.

On Feb 23rd, 2013, in conjunction with SWCSSA (Southwestern Chinese Students and Scholars Association), UCLA-CSSA (Chinese Students and Scholars Association), and UCLA ADCC (Advanced Degree Consulting Club), CESASC organized its kickoff conference at UCLA.

Ten distinguished Chinese Americans of diversified backgrounds shared their own stories about career planning and professional growth and offered their insights into and advice on ways of success. They are: Dr. Charlie Sie, Former VP of Xerox, Member of Committee-100; Dr. Dankai Liu, Project Manager, NASA/JPL; Dr. Yue Rong, Program Manager, Cal/EPA; Mr. Gene Chang, President, JC Research & Consulting, Inc.; Dr. Dean Ho, Professor of UCLA School of Dentistry; Dr. Longxia Li, President of Yinnel Tech, Inc.; Dr. Wensheng Zhou, Co-Founder of Sensor On Inc. and Agiyo Inc; Ms. Helen Liu, Partner of Third Wave Ventures; Mr. Andrew Pan, Senior Vice President of East West Bank; and Mr. Jenova Xinghan Chen, Founder of ThatGameCompany.

The full-day program was organized around seven categories: business, academia, start-up, entrepreneurship, government, industry research and career planning. Over a hundred students and young professionals attended the meeting. All tickets were sold out within 6 days after they were released

Guest speakers covered those topics that Chinese American students are most concerned with, such as whether or not to go back to China, the “glass ceiling”, how to acquire VC, and pains and gains during the start-up journey etc. Most people stayed engaged till the last session. Some participants spoke very highly of the meeting, and commented that more career-oriented workshops and meetings should be organized. The exit survey after the event shows that over 97% of the audiences are willing to attend the future LEAP events. The satisfaction is 100%.

The organization committee includes Yutao He, Jun Deng, Haowang Wang, Guanhua Huang, Peng Zeng, Shang Wu, Haodong Chen, Jun Wang, Hu Ye, and Dai Amy. For more information, please visit the LEAP website at: www.leapcareer.org.

(Written by Yutao He and Jun Deng)

CESASC STEM Project

CESASC was established 51 years ago, with the objective of providing an excellent environment to promote education and international advancement programs for its members, particularly in STEM (Science, Technology, Engineering and Math).

Starting 2012, the CESASC Board constituted a STEM Committee comprising of experienced people with excellent engineering and science background, with Dr. Yutao He, Dr. Eastwood Im, Mr. Yiu Man So, and Dr. Dankai Liu (Chair) as core team members, to promote the STEM teaching and learning in Southern California, including LA, Orange and San Bernardino Counties, by organizing speeches and essay competitions to get the involvement of the school students.



Starting last fall, the core team met with school districts in the Southern California districts many times to determine the CESASC strength and appropriate approaches for the STEM program and received very constructive responses in the meetings that elicited ideas for the best working program that can benefit students. This feedback, particularly from the meeting conducted by Mr. Kevin Baker from San Bernardino School District, helped the core team in developing the most effective strategy. Everybody agreed that, to begin with, it would be best to organize a tour guide in the open house of the affiliate organization. Gradually, a CESASC STEM Speaker Bureau was formed as an outcome of the talks and meetings, to help students get maximum benefit from the expert members' knowledge.

In addition, the Board has authorized the core team to organize an essay contest inviting all the 8th-12th grade students. Its objectives are to strengthen and motivate the young generation to be involved with and evolve future technology. This year's topic of the essay competition was "**Future Technology That Can Improve Human Life**". It turns out responses are very encouraging with about 30 entries. Two of them were from Ohio and Connecticut, respectively.

It turned out it brought forth exceptional talent as demonstrated through the wide array of topics chosen by the participants, which made deciding the winners a challenging task.

The evaluation committee for the essay competition this year included: Dr. Dankai Liu, STEM committee chair, Yiu Man So, STEM essay competition lead, Angela She (余安君), Haodong Chen (陈昊东), Jun Deng (邓君), Lingyan Ruan (阮凌雁), Yan Qu (曲燕), and Yi Yang (杨熠).

With the success of this inaugural competition, CESASC decides to hold the contest as an annual event with the continued support and active participation of our community to ensure an exciting and meaningful project for our next generation.

CESASC looks forward to accomplish even more milestones in its journey with the sustained support from our community. (Please see Page 17 for contest winners).

(Written by Dankai Liu and Yiu Man So)

51st CESASC Annual Convention Working Committee

Convention Co-Chairs: Yutao He, Jason Wen

Master of Ceremonies: Yiu Man So, Elizabeth Yang

Welcome: Joseph Chen, Yutao He, Elizabeth Kay-Im, Xuan Ji, Dankai Liu, Jason Wen, Yuan Xie

Tickets: Mingsong Yin*, Manwai Szeto

Registration: Mingsong Yin*, Jun Deng, Jennifer Feng, Xudong Fu, Yuan Xie, Yi Yang

Name Tags: Jun Deng

Convention Journals: Liping Yan*, Yutao He, Shirley Ho, Manwai Szeto, Jason Wen, Shang Wu

Technical Symposium Brochure: Yue Rong*, Yutao He, Manwai Szeto, Jason Wen, Shang Wu

Photographers: Susan (Yuan Xuan) Li, Wendy Ye

Evening Floor Manager: Dankai Liu*, Jun Deng, Liping Yan

Projector/Computer: Haodong Chen*, Jiye Ai, Cheng Peng

Light Control: Lingyuan Ruan

Schedule Control: Xudong Fu

Entertainment/DJ Coordination: Nancy Lin*, Jiye Ai

Stage Management/Coordination: Haowang Wang*, Fengyue Hu, Guanhua Huang, Jia Liu

Dinner Coordinator: Jia Liu

Certificates and Trophies: Nancy Lin, David Lee, Hongjing Xia

Decoration: Allison Tong*, Wanqing Huang, Xuan Ji, Liming Tan, Yuan Xie

Audio/DJ: Sing Yang Music Group

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University of Science and Technology of China Alumni Association, Southern California (USTCAA-SC)

Yiling Yang & Yutao He, Shirley & Chi-Ming Ho, Munson & Suellen Kwok, Sikun Lan, Dankai Liu, Linda & Jason Wen, Lihua Qiu & Liping Yan

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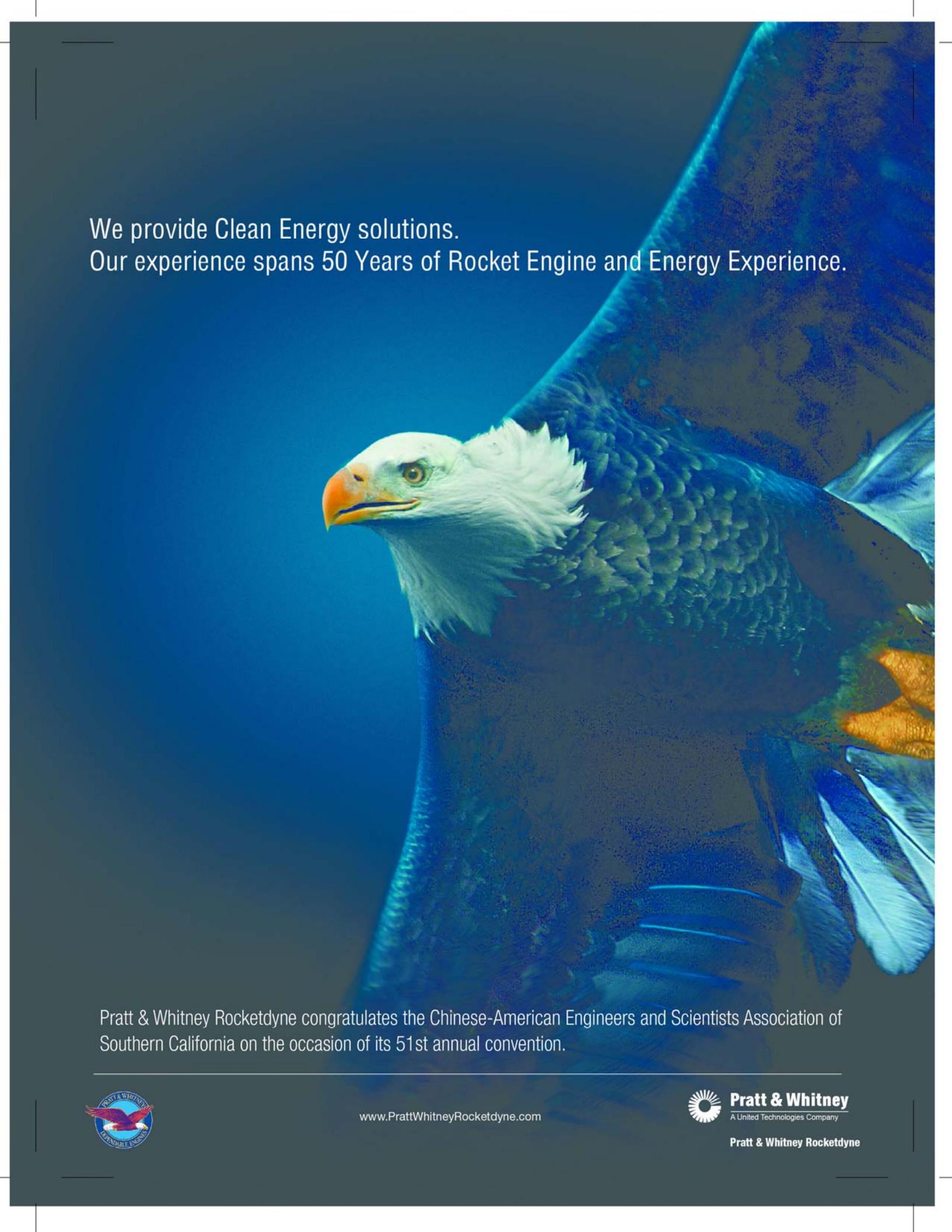
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Pratt & Whitney Rocketdyne congratulates the Chinese-American Engineers and Scientists Association of Southern California on the occasion of its 51st annual convention.



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