



# LEAP 3.0 ANNUAL CONFERENCE

Energize California and Empower Your Career.





# LEAP 3.0 Annual Conference with AE2C

Energize California and Empower Your Career

**Saturday, October 25, 2014**

Davidson Conference Center, University of Southern California

Los Angeles, California

## Program

**9:00 a.m. Registration Opens**

**9:30 a.m. Welcome and Opening Remarks**

– **Jenny Hou**, Program Lead & Board Member, AE2C

– **Dr. Yutao He**, Chair, LEAP Career Development Forum

**9:50 a.m. Opening Keynote Speech**

**Looking into California's Crystal Ball: Trends That Can Help Me Choose a Career.**

– **Michael Eng** – Board of Directors, California Community College Systems, former California State Assemblyman and former Mayor of Monterey Park, CA

**10:10 a.m. API/IHS Job Analysis Overview**

– **Dr. Carlos Rodriguez**, Senior Scientist, STEM & Energy – Education, Research, Workforce

**10:30 a.m. Coffee Break**

**10:45 a.m. Leadership 2030: Finding and cultivating the next generation of Asian American leaders**

Over the next 15 years, today's young professionals will begin to shoulder leadership responsibilities in public and private sector organizations of all shapes and sizes. This panel features successful leaders who blend Asian and American values and leadership styles to address global challenges.

**Moderator:** **Dr. Yutao He**, Chair, LEAP and Sr. technologist, NASA/JPL

**Speakers:**

– **Floyd Mori**, President and CEO, Asian Pacific Asian American Institute for Congressional Studies

– **Dr. Carlos Rodriguez**, Senior Scientist, STEM & Energy – Education, Research, Workforce

– **Dr. Jenn-Ming Yang**, Associate Dean, HSSEAS, UCLA

– **Elizabeth Kay-Im**, Deputy Division Manager, NASA/JPL

**11:45 a.m. Lunch – Speed Mentoring Session**

A fun way to gather career advice from several sources. Just like speed dating, this lunch session allows participants to meet with professionals and speakers who will provide candid answers to questions and provide ideas to empower your career. At a specified time, and after eating and talking at your first table, participants switch tables to meet another mentor and gain additional perspectives to their questions.

**1:00 p.m. Afternoon Session Keynote**

– **Caroline Choi**, Vice President, Integrated Planning and Environmental Affairs, Southern California Edison

**1:30 p.m. Career Pathways**

Conference participants can attend one of two parallel discussions

[Session 1: Careers in Research](#)

Millions of data, including texts, speeches, audios, images and videos, have been created every day due to the popularity of personal mobile and wearable devices. Due to the huge size and great diversity of the acquired multimedia data, big data analytics plays a critical role in applications such as large-scale image/video indexing, search and tagging. Big data science and engineering will create numerous job opportunities in both academia and industry. This talk will address this general trend and the required preparation to enter this field.

– **Professor C.-C. Jay Kuo**, Fellow, AAAS/IEEE/SPC, Professor, Electrical Engineering and Computer Science, University of Southern California

[Session 2: An Entrepreneur's Story](#)

This talk will share Dr. Chao's personal experience and perspective as a researcher at JPL/Caltech in science and technology development as well as management. The excitement and challenges during his recent venture into entrepreneurship will also be discussed

– **Dr. Yi Chao**, President and CEO, Seatrec, Adjunct Professor, UCLA

**2:30 p.m. New energy for new opportunities: How the natural gas revolution is empowering cleaner energy and creating new career opportunities**

Conference participants can attend one of two parallel discussions

[Session 1: Natural gas as a bridge fuel to cleaner energy future](#)

Natural gas is an increasingly important part of America's energy mix and is fast becoming an enabler in markets for cleaner energy. Hear from experts across government, academia and industry on new technological advancements, industry changes and policy developments that are helping to deliver on the potential of natural gas to accelerate America's clean energy future.

[Moderator:](#) Jenny Hou, AE2C

– **Samuel Tam**, Director, Clean Energy Technology, Fossil Fuel Division, U. S. Department of Energy

- **Patrick Lee**, Senior Vice President of Customer Service and Business Strategy, Southern California Gas Company

**Session 2: Growing as an energy professional – A discussion of research internships at US National Research Labs**

The energy industry is fuelled by innovations, many of which come from America's treasured national labs. Emerging Energy professionals who want to be at the forefront of technology and research can benefit from spending time as an intern at the DOE's research laboratories. Learn more about how to join this community of experts by becoming DOE labs intern.

**Moderator: Tony Baylis**, Director, Office of Strategic Diversity Programs, Lawrence Livermore National Laboratory, US DOE

- **Howard Wong**, Configuration Manager, Nuclear Materials Technology Program, Lawrence Livermore National Laboratory, US DOE
- **Elizabeth Bautista**, Group Lead for the Operations Technology Group at National Energy Research Scientific Computing Center, Lawrence Berkeley National Laboratory, Berkeley/US DOE
- **Kena Winoto**, Manager, Sandia National Laboratory/US DOE
- **Sarah Flores**, Software Engineer, Jet Propulsion Lab, NASA

**3:30 p.m.**

**The Globalization of Energy: How US LNG exports to Asia are opening up new markets and new opportunities for Asian Americans**

A confluence of geo-political events, concerns about carbon emissions in emerging economies and hydraulic fracturing advances have heightened interest in exporting America's liquefied natural gas (LNG) globally, including to Asia. This conversation will address how LNG exports are connecting the economies of the United States and Asia, while contributing to economic growth and opportunities in the U.S. especially for young professionals who bridge Asian and American culture, experience and values.

- **Robin Rorick**, American Petroleum Institute
- **Robert Gee**, President, AE2C

**4:15 p.m.**

**Closing Remarks**

- **Peter Ng**, Executive Director, Chinatown Service Center
- **Robert Gee**, President, AE2C

**4:30 p.m.**

**Social Mixer**

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# Speaker Bios



## The Honorable Michael Eng

Mike Eng was called an at risk child who frequently dropped out of class and received failing grades. His parents worked in the garment industry where Mike also worked starting at the age of 7. Mike's life began to change when he won a Science Fair award in middle school when encouraged by a science teacher. He graduated from high school and went on to earn a Bachelors and Master's Degrees from the University of Hawaii and a law degree from UCLA. He served as a City Councilman, State Assemblyman, and was recently elected as a

Trustee to America's largest community college district.

The crisis in the sudden loss of available water when he served as Mayor of the City of Monterey Park, led him to study the effects of perchlorate and volatile organic compounds on the San Gabriel Valley which led to his establishing the first city Environmental Commission in the San Gabriel Valley. While serving in the State Assembly, he authored the state's landmark "Human Right to Water" legislation (AB 685) which received international attention by United Nations officials. He helped write the legislative language became the basis for the Proposition 1 on the November 2014 ballot.

When he almost lost his brother to debilitating asthma he began to study the effects of air quality on human health. While serving in the State Assembly he authored legislation (AB 2289) which led to the complete change of the State's vehicle smog check program which now removes up to 70 tons of pollutants from California air on a daily basis.

While serving a Chair of the Transportation Committee for the State Assembly, he helped California secure a \$250 million grant for a pilot project to develop alternatives to high congestion traffic corridors resulting in \$120 million in funding for the El Monte Transit Station and over 50 new buses. The congestion pricing lanes led to the expansion of electric vehicle access to the downtown and San Gabriel valley corridors.

A speaking engagement with High School Students led to a discussion on renewal energy. The result was Mike's authorship of one of California's first proposal for net zero energy for state buildings. The proposal sparked off a debate that led to further understanding and legislation.

Mike Eng currently chairs two of the Los Angeles Community College Districts critical committees: the Committee on Institutional Effectiveness and Student Success and the Committee on Legislation. He was helped initiate the Affordable Care Act to start signing up thousands of students for first time health insurance coverage. He has taught at UCLA, Los Angeles Trade Technical College and the University of the West. He founded an immigration law firm in downtown Los Angeles. He lives in the San Gabriel Valley and is married to U.S. Congresswoman Judy Chu.



## Dr. Carlos Rodríguez

Dr. Carlos Rodríguez is recognized as a national expert and scholar on equity, access and educational attainment of minority populations across the education spectrum. His research and evaluation expertise focuses on minority student success in science, technology, engineering and mathematics (STEM) in the post-secondary arena. For the American Institutes for Research, as an NSF Principal Investigator, Dr. Rodríguez has led AIR study teams to conduct a national Broadening Participation in STEM project, the Longitudinal

Study of the Alliance for Graduate Education Program (AGEP), national, state and local evaluations of AGEP, the Short Term Impact Study of the Model Institutions for Excellence (MIE-NSF), the Follow-On Study of the MIEs and an "Expanding the Pool" project to build partnership with middle schools and high schools to increase minority student's interest in STEM. Over the past 20 years, he also has led studies to examine the effects of the Equity 2000 Project of the College Board, Project GRAD in the Houston Independent School District, and the evaluation of the Partnerships for Health Professions. Additionally, he conceived and led the development of cultural competency curriculum modules for family physicians for the Department of Health and Human Services. He is sought for his expertise on evaluation issues related to underrepresented minorities in STEM and the role of cultural contexts in evaluation projects. Among his accomplishments, Dr. Rodríguez authored the national report, "America on the Fault Line: Hispanic American Education" (1997) which informed the enactment of the Hispanic Education Action Plan (HEAP) to guide federal agencies in Hispanic educational initiatives. He participated in the White House Strategy Session on Improving Hispanic Student Achievement convened by President Clinton and delivered an address on the Educational Landscape of Hispanics at the First White House Conference on Hispanic Children and Youth convened by First Lady Hillary Clinton at the White House in Washington (1999). Dr. Rodríguez holds an appointment as Scholar-In-Residence at American University in Washington DC. He received his Ph.D. in Higher Education from the University of Arizona and his Master's degree in Bicultural and Bilingual Studies from the University of Texas at San Antonio. He is a Spencer Foundation Fellow of the Woodrow Wilson Foundation for his research: Minorities in Science and Engineering: Patterns for Success. Currently, he is providing consultant services on STEM education and workforce pathways to the American Petroleum Institute of Washington, DC, Great Minds in STEM (GMiS) of Los Angeles, California and the US Department of Defense.



## Floyd Mori

S. Floyd Mori is the President and CEO of the Asian Pacific American Institute for Congressional Studies (APAICS). Previously, Mori served as the National Executive Director/CEO of the Japanese American Citizens League (JACL). He was chair of the National Coalition of Asian Pacific Americans (NCAPA) and has been on the Executive Council of the Leadership Conference on Civil and Human Rights (LCCR). He served four years as National President and four years as a National Vice President of the JACL.

Mori was elected in 1972 to the city council for Pleasanton, California, where he served as Mayor ProTem and later as Mayor. He was also elected to the California State Assembly and served for six years as an Assemblyman. He was the Director of the Office of International Trade in California and worked extensively with Asian American groups and organizations. He has been an International business consultant and president of Mori-Silva International for many years. Mori has been a consultant in government relations and served as the Utah Trade Representative to Japan. He has been part owner of a golf business and is an avid golfer, having served as president of the board of Alpine Country Club in Utah. He served on the Utah Governor's Asian Advisory Board and Small Business Administration Advisory Committee. He is currently a member of the Diversity Council for Comcast NBCU and is on the board of the Independent Voters Project.

He has received a number of awards including an Outstanding Citizen Achievement Award from OCA, the Community Leadership Award from APAICS, and the Order of the Rising Sun, Gold Rays with Rosette Award from the Government of Japan. He has volunteered with political groups, youth sports, inner city projects, and church work.



## Dr. Jenn-Ming Yang

Dr. Jenn-Ming Yang is currently Professor and Associate Dean of International Initiatives and Online Programs at the Henry Samueli School of Engineering and Applied Science, UCLA.

Prior to his current appointment, he was the Chair of the Department of Materials Science and Engineering, UCLA. He received his B.S. in Materials Science and Engineering at National Tsing-Hua University, Taiwan in 1979, and received his Ph.D. in Metallurgy from the University of Delaware. He joined the faculty at UCLA's Department of Materials Science and Engineering in 1986.

At UCLA his major research interests are light weight metallic and composites for aerospace structural applications, nanostructured materials and nano-mechanical testing of advanced materials.

Prof. Yang also collaborates with several aircraft engine companies in the United States and Europe. His work has resulted in more than 200 publications in journals and proceedings. He has received the National Science Foundation's Presidential Young Investigator Award, Alcoa Foundation Award, the Ford Foundation Award, and R&D 100 Award.





## Elizabeth Y. Kay-Im

Elizabeth Kay-Im is NASA Jet Propulsion Laboratory's Deputy Division Manager for the Mission Systems and Operations Division (39).

She has been at JPL for 25 years, focusing on developing the new generation of Science Data Systems that are scalable and reusable across earth, planetary, and astrophysics missions, reinforcing and expanding JPL's core competencies in science data collection, processing, analysis, archiving, and distribution. She has worked on the development of the instrument operation systems and the image processing systems for many missions, such as Mars Exploration Rovers, Mars Pathfinder, Cassini, Galileo, Mars Express, Magellan, etc.. Elizabeth advanced through management positions as technical group leader of the Image Processing System Integration and Test Team, technical supervisor of the Instrument Product Software Development Group, deputy section manager of the Modeling and Data Management Systems Section, section manager of the Instrument Software and Science Data Systems Section and was appointed to her current position in May 2013.

Elizabeth Kay-Im holds bachelor degrees in math-computer science and business administration from Whittier College.



## Caroline Choi

Caroline Choi is vice president, Integrated Planning and Environmental Affairs for Southern California Edison (SCE), responsible for analysis of critical federal and state energy and environmental policy, as well as analysis and development of an integrated, long-term environmental and energy strategy for SCE.

Prior to joining SCE in 2012, Choi was executive director of Environmental Services & Strategy at Progress Energy, where she was responsible for leading environmental permitting, compliance and policy. She served the company in various roles, including director, Energy Policy & Strategy and manager, Federal Public Affairs.

Choi has served on various nonprofit boards and is a board member of the National Forest Foundation and the California Advisory Board of The Trust for Public Lands.

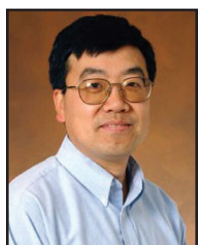
Choi has a bachelor's degree in government from Dartmouth College.



## Dr. C.-C. Jay Kuo

Dr. C.-C. Jay Kuo received the Ph.D. degree from the Massachusetts Institute of Technology in 1987. He is now with the University of Southern California (USC) as Dean's Professor of Electrical Engineering. His research interests are in the areas of digital media processing, multimedia compression, communication and networking technologies, and big visual data analytics. Dr. Kuo is a Fellow of AAAS, IEEE and SPIE. Dr. Kuo has guided about 125 students to their Ph.D. degrees and supervised 25 postdoctoral research fellows.

He is a co-author of about 220 journal papers, 860 conference papers and 12 books. Dr. Kuo is a Fellow of AAAS, IEEE and SPIE. He is Editor-in-Chief for the IEEE Transactions on Information Forensics and Security and Editor Emeritus for the Journal of Visual Communication and Image Representation (an Elsevier journal).



## Dr. Yi Chao

Dr. Yi Chao is the President and Chief Executive Officer (CEO) of Seatrec, Inc. He obtained his M.A. and Ph.D. degrees from Princeton University and B.S. degree from the University of Science and Technology of China. During 1993-2011, Dr. Chao worked at NASA's Jet Propulsion Laboratory (JPL) on a variety of research projects ranging from oceanography, Earth science remote sensing, numerical modeling, and underwater technology development. Dr. Chao was the Project Scientist during 2003-2011 for the Aquarius mission to

launch the first satellite measuring ocean salinity from space. His management experience at JPL includes group supervisor during 2005-2006 and section managers during 2007-2009. Dr. Chao was recognized by NASA in 2011 with a Group Achievement Award for demonstrating the world's first self-powered unmanned underwater vehicle, and in 2005 with the Exceptional Achievement Medal for around-the-clock forecasting the coastal ocean. In 1996, he was recognized by JPL with the Lew Allen Award for Excellence during the early years of their professional career. Dr. Chao left JPL in 2011 and established Seatrec in 2012 with a goal to commercialize the underwater robotic technology developed at JPL/Caltech. Currently, Dr. Chao is also affiliated with UCLA as an Adjunct Professor, and with Remote Sensing Solutions, Inc. as a Principal Scientist.



## Samuel Tam

In the last 38 years, Mr. Tam has been active in the Research & Development, engineering, project management, and commercial development related to the conversion of coal and natural gas to power, chemicals and liquid transportation fuels.

Recently, Mr. Tam is named to be the China Chief Representative for Coal in the Office of Fossil Energy in the U.S. Department of Energy. In his new capacity, he will plan, execute, and coordinate all the

bilateral coal activities between U.S. and China.

Prior to this new assignment, Mr. Tam was the Director for Advanced Energy Systems Division in the Office of Fossil Energy of the U.S. Department of Energy. His responsibility

was to oversee the R&D activities in advanced coal gasification, advanced turbine, solid oxide fuel cell, oxy-combustion, and coal and biomass to liquids. Before he joined DOE in September 2009, he has spent more than 33 years with Headwaters, Bechtel, BP, and Dow Chemical in developing technologies for utilizing coal and natural gas for power generation, fuels production, and chemical synthesis.

Mr. Tam is a Professional Engineer registered in the State of Michigan. He has received a BSc and MSc degree in Chemical Engineering from The Ohio State University.



## Patrick Lee

Patrick Lee is senior vice president of customer service, innovation, and business strategy at Southern California Gas Company (SoCalGas).

Lee is responsible for all customer services and programs, as well as strategic planning and development of new businesses and technologies at SoCalGas. Prior to joining SoCalGas in August 2012, Lee served as vice president of Sunrise Powerlink for San Diego Gas and Electric (SDG&E). Lee had overall responsibility of the project including public affairs, environmental, land services, engineering, procurement and construction of the largest capital infrastructure project in SDG&E's history. The \$1.9 billion, 500-kilovolt transmission line was completed successfully in June 2012.

Prior to his role on Sunrise Powerlink in April 2009, Lee was vice president of energy supply for Sempra Generation, which is now part of Sempra US Gas & Power. Lee was responsible for natural gas procurement, energy sales from a fleet of combined cycle and renewable power plants, and daily trading and long term hedging of natural gas and electricity output for the power plants. Prior to that, he held several director positions at SDG&E. His past responsibilities included: construction, maintenance and operations of transmission, substation and distribution systems in the San Diego region; skills and compliance training; business processes support; and performance management.

Before joining SDG&E in 1991, Lee worked for the Sacramento Municipal Utility District and the City of Roseville, California. His utility experience includes electric system planning, engineering standards, transmission & substation construction and maintenance, electric reliability, system automation, smart grid, engineering data integration, business process re-engineering and renewable energy development.

Lee has a bachelor's degree in electrical engineering from San Diego State University and a master's degree in electrical engineering from California State University, Sacramento. He is currently serving the California Council for Science and Technology as a council member, a trustee of California State Parks Foundation, and a registered professional electrical engineer in California.



## Tony Baylis

Tony Baylis is the Laboratory's Director of the Office of Strategic Diversity Programs (OSDP). In this position, Tony is a senior management advocate for diversity and inclusion for Laboratory employees. His responsibilities involve working with senior management to develop strategies, programs, and activities that promote the creation of a diverse and inclusive workforce and work environment. He serves as the Laboratory's EEO, AA and Diversity compliance officer. In conjunction with these tasks, Tony is responsible

for overseeing the successful execution of the (HBCU) program, the American Indian Program, and the Laboratory's Diversity Awareness Program and activities, and represents the Laboratory on the subjects of Diversity, EEO, and AA to DOE/NNSA, as well as other governmental, educational, industrial, and community interests and stakeholders.

Tony's career represents 26 years of administrative, project, program and organization management, excellent leadership abilities, positive interpersonal and communication skills, and innovative and strategic thinking within a scientific and technical environment. Tony has extensive experience networking with a broad range of academic, industry, government and non-profit organizations that will serve him well in his role. Tony's ability to blend his strategic leadership skills with his signature passion for helping others succeed is a key attribute of his personal character.



## Howard Wong

Howard Wong is the Deputy Facilities Maintenance, Operations, and Engineering Manager and Configuration Manager in the Nuclear Materials Technology Program at the Lawrence Livermore National Laboratory (LLNL). In this position he is responsible for the overall operations, engineering, and maintenance support of several nuclear facilities. These facilities provide support for the Lab's Stockpile Stewardship program. Howard is also the current Chair of the Lab's Asian Pacific American Council, an umbrella organization for several

Asian diversity groups, in promoting Asian culture and diversity awareness as well as providing scholarships to deserving local high school seniors.

Howard Wong has over 35 years of experience in management and technical roles related to nuclear facilities in the DOE and NRC environments. He joined LLNL in 2000 as the manager for the authorization basis group providing safety analysis support for the LLNL nuclear facilities. Subsequent positions included manager in the Hazards Control Department responsible for safety programs in the areas of radiation protection, criticality safety, safety basis, industrial safety, and industrial hygiene. Before coming to LLNL, Howard had over 20 years' experience in the oversight of commercial nuclear power facilities in both operational and construction phases with the Nuclear Regulatory Commission. Howard was also the QA manager for a company designing and fabricating dry spent fuel storage containers for commercial nuclear power facilities.



## Elizabeth Bautista

Elizabeth Bautista is Group Lead for the Operations Technology Group (OTG) at Lawrence Berkeley National Lab's National Energy Research Scientific Computing (NERSC) Center. Bautista's group ensures 24x7 accessibility, reliability, and security of NERSC's High Performance Systems, data storage systems and of the Energy Sciences Network (ESnet). NERSC is the primary scientific computing facility for the Office of Science in the U.S. Department of Energy.

As a member of the Lab's Computing Science Diversity and Outreach Programs, she supports programs that seek to involve women and girls in STEM such as the Grace Hopper Conference, CRA-W and the Richard Tapia Celebration of Diversity in Computing Conference. As a former delegate for the Council of University of California Staff Assemblies (CUCSA), she champions issues of retention policy and diversity. She has a B.S. in Computer Information Systems and an M.B.A. in Technical Management from Golden Gate University.



## Sarah Flores

Sarah Flores is a software engineer at the Jet Propulsion Laboratory (JPL), a NASA research center, where she started as a summer intern. She develops web applications that give the public easy access to scientific data and that supports the needs of scientists and engineers. Her work has also included supporting scientific outreach in Central and South America. Before working at JPL, she interned on the ChemTrack team at Lawrence Livermore National Laboratory. She has a BS in Information and Computer Science and a Minor in Digital

Arts from UC Irvine. She has a wonderful husband and an adorable daughter.



## Robin Rorick

Robin Rorick is the Director of Marine and Security Operations at the American Petroleum Institute, a trade association of more than 600 companies, representing all aspects of America's oil and natural gas industry. In his more than fifteen years at API, Robin has worked in various capacities throughout API in Communications, Regulatory and Scientific Affairs and Policy Analysis. Additionally, Robin has been involved with every segment of the industry on a myriad of issues including climate change, Clean Water Act, Clean Air Act, the Toxic

Substances Control Act, and fire and safety to name a few.

Currently, Robin is responsible for all energy infrastructure issues for the Institute with a particular focus on maritime and shipping activities. In addition, he oversees all of the security and emergency response issues. In this latter capacity, Robin is responsible for activities associated with prevention of and response to oil spills and broad crisis management for all segments in the industry. Robin regularly represents the API to the media, at conferences and at other speaking venues.

Robin lives in Virginia with his wife and two children. He received his undergraduate degree from the College of William and Mary and his graduate degree from Johns Hopkins University.



## Dr. Yutao He

Dr. Yutao He is currently a Senior Technologist at NASA/Jet Propulsion Laboratory (JPL) leading research in innovative avionics technology for current and future NASA space exploration missions. Since joining JPL in 2004, he has worked on a variety of projects with increased responsibilities as a hardware/software designer, a systems engineer and architect, and a technical manager. He has won one NASA Group Achievement Award, 4 NASA New Technology awards, a pending patent, and numerous JPL institutional awards.

Dr. He is an adjunct faculty member at UCLA and CSU-LA, and an Executive-in-Residence of College of ECST at CSU-LA. He has been serving as reviewers for numerous professional journals and conferences and as organizers of technical conferences, and on the review boards of NASA AIST and SBIR proposals in the area of avionics and information technology.

At JPL Dr. He has mentored over 32 high school & college interns from Caltech, UCLA, USC, UC Berkeley, UCI, Stanford, U. of Hawaii, MIT, Harvard, Princeton. Some are currently working full-time at JPL, Broadcom, SpaceX, TI, Oracle, Lockheed Martin, and WalmartLabs. Since November 2011, he has been "Coach Yutao" in Science Olympiad Team of Dana Middle School in Arcadia, California. He was a Grand Award judge in Computer Science Category at the 2014 Intel International Science and Engineering Fair (ISEF) and has been LA Science Fair judges for several years.

Dr. He is Chair of JPL Asian American Council (AAC), Vice President of THUAA-SC (Tsinghua University Alumni Association of Southern California), and co-founder/Chair of LEAP Career Development Forum. He was former President of JPL/Caltech Toastmaster Club, and 2012-2014 President and Chairman of CESASC (Chinese Engineers and Scientists Association of Southern California). During his presidency, CESASC initiated STEM Essay Contest for middle/high school students and LEAP program for college students/junior professional.

Dr. He holds a Ph.D. in Computer Science from UCLA and a B.S. in Electrical Engineering from Tsinghua University in Beijing, China.



## Dr. S. T. Hsieh

Dr. S. T. Hsieh (MS, 1968, MSEE 1972, PhD 1975) is the Founding Director of the US/China Energy and Environmental Technology Center (EETC) at the Payson Center, and the Pacific Rim Center at Tulane University. EETC was officially established in 1997 and co-funded by the US Department of Energy and China's Ministry of Science and Technology. EETC's focus is on research and demonstration of clean energy and environmental technologies for US-Chinese business ventures. Dr. Hsieh oversees the day to day operation and the development of U.S./China joint studies on environment and energy issues, and pilot projects to produce near and midterm emissions reductions in China.

Since 2008, Dr. Hsieh is also the co-director of the US/China EcoPartnership on Eco-Development with Prof. JJ Lu of East China Normal University ([www.EcoPartnerships.lbl.gov](http://www.EcoPartnerships.lbl.gov)) which is co-sponsored by the US State Department and China's National Development Reform Commission. This EcoPartnership is focused on the research of wetland preservation/restoration, technology demonstration of modular water treatment systems, hydrokinetics for clean power generation and large scale carbon sinks based on wetlands (forests and aquaculture etc.) The ultimate goal of the EcoPartnership is regional eco-development of wetlands with global impacts.

Dr. S. T. Hsieh has thirty years' experience as an educator, currently a full professor of Electrical Engineering (Head Department of Electrical Engineering, Tulane University 1986-1992) and currently a Research Professor at the Payson Center for International Development at Tulane University. He has published extensively on the IEEE Transactions on biomedical engineering and telecommunications. Dr. Hsieh is also one of the Founding Members of AE2C.



# AE2C Board



## Robert W. Gee – President

Robert W. Gee is President of the Gee Strategies Group LLC, a consulting firm providing policy analysis, advocacy, and litigation support services for the energy, utility and critical infrastructure industries based in Washington, D.C. His diverse client base includes investors, trade associations, utilities, and public sector institutions.

From 1997 to 2000 he served as Assistant Secretary for Policy and International Affairs and as Assistant Secretary for Fossil Energy of the U.S. Department of Energy in Washington, D.C. He chaired the Energy Department's Central Asia/Caspian energy strategy, and oversaw the national research program for oil and gas and advanced clean coal technologies.

From 1991 until 1997 he served as a Commissioner for the Public Utility Commission of Texas and as its Chairman from 1991 through 1995. During his Commission service, he chaired the Committee on Electricity for the National Association of Regulatory Utility Commissioners. He has served as a Supervisory Trial Attorney at the Federal Energy Regulatory Commission, held the position of General Attorney at Tenneco Oil Company, and was Of Counsel to the law firm of Akin, Gump, Strauss, Hauer & Feld.

He currently serves as President of Asian Americans in Energy, the Environment, and Commerce (AE2C); as a member of the Development Advisory Board of C12 Energy; and as member of the Board of the Northeast-Midwest Institute. He is also a member of the National Petroleum Council, a federal advisory committee to the US Secretary of Energy.

Mr. Gee received a Bachelor of Arts Degree in government with honors from the University of Texas and a Doctor of Jurisprudence degree from the University of Texas School of Law.





## Margaret S.Y. Chu, Ph.D. – Vice President

Margaret S.Y. Chu, Ph.D., is the managing director of M.S. Chu + Associates, LLC, a consulting service to domestic and international clients in nuclear and environmental issues. She had over 20 years' experience at the Sandia National Laboratories serving in several capacities including the Director of the Nuclear Waste Management Program Center where she was instrumental in the successful opening of the Waste Isolation Pilot Plant (WIPP). In 2002 she was appointed by President Bush and confirmed by the Senate as the

Director of Department of Energy's Office of Civilian Radioactive Waste Management. In this DOE position, she was responsible for the management and disposal of U.S. spent nuclear fuel and high level waste. She is currently serving on the DOE Nuclear Energy Advisory Committee and National Academy of Science Nuclear and Radiation Studies Board. Margaret holds a B.S. degree in chemistry from Purdue University and a Ph.D. in physical (quantum) chemistry from the University of Minnesota.



## Jenny Hou – Treasurer

Jenny Hou is an economic and financial advisor with 15 years extensive experience in financial risk management, restructuring electricity wholesale markets, formation of independent electrical transmission companies, financial analysis of structured finance, and business strategy in the energy industry and financial sectors.

In 2013, Ms. Hou founded SunEnergie Capital LLC, a Virginia-based capital venture firm primarily focused on creating innovative financing structures for public-private partnership investments in the federal, state and municipality space for the purpose of energy efficiency efforts. Prior to forming SunEnergie, she served as a financial advisor to financial institutions and multinational companies to examine financial risk issues, estimate equity risk premiums, and develop appropriate levels of return on equity incentives for infrastructure investments. Ms. Hou worked with the financial risk management of PriceWaterhouseCoopers focusing on designing enterprise-wide risk management solutions, and managing economic capital to ensure sound corporate governance practices and improve market liquidity within the energy industry and financial sectors.

Prior to PWC, Ms. Hou worked for the economic and analytics group of PHB Hagler Bailly, Inc. In addition to providing financial advice to industry clients, Ms. Hou has also provided consultation services to the Electric Power Research Institute (EPRI), international energy agency (OECD/IEA) and the World Bank Trust Fund.

Ms. Hou holds a B.S. from Peking University with Honors, an M.S. in Regional Economics from the University of Illinois at Urbana – Champaign, and an M.S. in Management Science in Engineering from Stanford University.



## Judi Rhee-Alloway – Secretary

@JudiRheeAlloway is Founder of womensbizcoop.com, Leadership Coach and Business Consultant at Imagine Leadership, LLC, and Founding National Director of Women in NAAAP!, an international Asian women's leadership program covered in Forbes Women. As the founding professional development chair of NAAAP – Philadelphia and a local community organizer, her public media appearances include The Philadelphia Inquirer, The Philly Daily News, El Dia, The Epoch Times, Nickelodeon and Fox News. Her transformative life story is featured

in two books: The Height of Power: Petite Women Speak of Stature with Donna Shalala by Huffington Post columnist, Suzette Martinez Stranding, and The Coaches Journey. Chosen by the Women's Bureau of the US Department of Labor, in 2011 she was honored to be placed in the pool of top women innovators to represent the United States by the US State Department. In 2014, Ms. Alloway was awarded "Outstanding Visionary Women Leader" in India. Judi currently serves on the Steering Committee of Count Me In, creating 1000 women small business millionaires, and the Founding Boards of Asian Americans in Energy, Environment, and Commerce (AE2C) and Korean Americans for Obama-Philadelphia. A graduate from the George Washington University with a B.A. in International Affairs and a concentration in Politics/Economics specializing in Russian Languages and Literatures, and post graduate studies at Moscow State University and Seoul National University, Judi speaks around the world as a social entrepreneur, a community leader, and a multicultural women's leadership expert as one of the top "Asian American influencers."



## Rasheq Rahman

Mr. Rasheq Rahman is a member of the AE2C board and chair of the Program Committee where he helps with the strategy and execution of AE2C events and initiatives in Washington and around the country. Professionally, Rasheq is the Senior Advisor for Federal market development and insights at the IBM Corporation. He was previously a Vice President at KBC Financial Products where he helped to establish the firm's insurance derivatives and credit derivatives business lines and an analyst at Goldman Sachs. He also serves on

the board of Akash Solar, a start-up solar energy company in Bangladesh. Rasheq holds an MBA in Strategy and Management from Yale and a BA in Economics from the University of Chicago.



## Jimmy Rhee

Jimmy Rhee, served as Assistant Secretary of Commerce and Trade for the Commonwealth of Virginia from March 2010 through January 2014. In this capacity, he presided over International Trade and Investment activities with direct nexus to job creation, facilitated events to promote international trade for Virginia-based companies, recruited Asian conglomerates in various industries from information technology to energy to establish a presence in Virginia and advocated government involvement in the clean energy sector whereby utilities could be incentivized to adopt and implement renewable energy policies. Mr. Rhee also worked with the United States Department of Commerce to facilitate President Obama's National Export Initiative and facilitated Virginia's "Year of the Entrepreneur" program (in conjunction with the White House initiative Startup America) to enable small businesses to gain access to capital, information and technology

Mr. Rhee has over 20 years of entrepreneurial experience in enterprise creation, growth and change management with an extensive record of directing turn-around situations ranging from manufacturing to software companies. Currently, he serves as a Strategic Advisor to The Livingston Group, a respected bipartisan government relations firm in Washington, D.C. and is a General Partner of EIGC Holdings, a Hong Kong based firm focused on energy assets and commodities encompassing crude oil, iron & ore mining, etc.

Mr. Rhee has a B.S. in management from the University of Maryland and an M.S. and M.B.A. from Johns Hopkins University. He also earned a Professional Certificate for Sustainable Energy Conversion & Storage from the Stanford University Professional Development Center.



## Anand Subbiah

Mr. Subbiah has over 25 years of experience advising the energy and environmental industry. He has wide ranging expertise in providing advisory services for transactions analysis; risk management, portfolio and project financing, carbon finance; planning and policy; utility restructuring; integrated resource planning; tariff analysis; renewable energy; energy efficiency, load research and ESCO projects; technology and energy market assessments; project evaluation; and capacity development and training.

Subbiah worked with various consulting firms including Navigant Consulting, Bechtel and Nexant, before starting his own energy consulting practice. Subbiah has worked with clients in both the public and private sectors, and is an advisor to multilateral banks and donor agencies such as the World Bank, Asian Development Bank, and the United States Agency for International Development. Subbiah has worked in over 50 countries in Africa, Asia and the Pacific, Europe, and North and South America.

Subbiah has degrees in electrical engineering from Bangalore University, an MBA in finance from the University of Vienna & Vienna Institute of Technology, and was a researcher at the Center for Energy and Environmental Studies at Princeton University.



## LEAP Career Development Forum

LEAP (Leadership, Excellence, Aspiration, and Platform) is a career development forum that was launched in 2013 as part of CESASC's new initiative to strengthen its membership benefits. Its vision is to develop a trustworthy and sustained platform for career development and professional growth of Chinese Americans in the scientific and engineering fields.

LEAP is committed to provide career-related guidance, education, mentorship, and opportunities to Chinese American professionals working in America throughout their career life. Through a variety of regular events including conferences, professional seminars, a mentor program, and networking mixers, LEAP strives to help attendees develop strong leadership skills, achieve professional excellence, and foster great aspiration.

The inaugural LEAP conference (LEAP 1.0) was successful held at UCLA 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). The theme is success starts here. 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. Late Dr. Charlie Sie, Former VP of Xerox and Member of Committee-100, delivered a keynote speech, titled A Life of Learning and Surviving in Corporate America. Over a hundred students and young professionals attended the meeting.

The second LEAP conference (LEAP 2.0) was held at Caltech on November 2, 2013. With a theme of lead your career forward, the full day program is composed of keynote speeches, seminars, clinic for job hunting skills, recruiting/info sessions, and networking mixers. Dr. Alice Huang of Caltech, the 2010-2011 President of AAAS, Member of Committee 100, and 2012-2013 CESASC Lifetime Achievement Awardee, presented a keynote speech, Chinese Americans in Science and Technology: Future Leaders Wanted. Dr. Diane Tang-Liu, CEO and President of DTL BioPharma Consulting, Inc. and Adjunct Professor of USC/UCSF presented the keynote speech, Forcing A Changing World and Positioning for Future Success. For the first time, LEAP introduced on-site job recruiting with participation of 6 companies including about 40 job openings.

In response to the ever-increasing interests and extremely positive feedback, LEAP has started organizing a series of more frequent and small-scale programs in 2014. In conjunction with SWCSSA, LEAP@campus made a successful debut with two back-to-back events in UCI on March 30, 2014 and in UCSD on April 6, 2014. Themed lead your career into the real world, the two events were targeted engineering majors in UCI and life science majors in UCSD and well-attended by far more expected audience. Another LEAP career development forum with a theme of lead your career dream into reality, was organized as part of the 2014 CESASC Technical Symposium on April 19, 2014, followed by two more seminars on 8/2, 2014 at Caltech and 9/4 at UCLA. In collaboration with AE2C (Asian American in Energy, Environment, and Commerce), LEAP 3.0 will take place on October 25, 2014 at USC, with a theme of Energize California and Empower Your Career.

LEAP will continue to grow and provide more benefits in the upcoming years. For more information, please visit the LEAP website at: [www.leapcareer.org](http://www.leapcareer.org).

## LEAP Team

### Chair

Dr. Yutao He

### Founding Members

Dr. Haodong Chen

Jun Deng

Dr. Yutao He

Dr. Jun Wang

Dr. Shang Wu

### Working Team

Ji Chen

Candy Fan

Zhiping Feng

Xinyi Huang

Cathy Jin

Zhongbo Li

Jia Liu

Jingyi Qian

Dr. Hongjin Tan

Xiaohui Tong

Aolin Wang

Jenny Wu

Michael Xing

Xiaoyi Zhang

## Thank you to the LEAP 3.0 and Energize California Organizational Team

Bonnie Chen

Claire Chen

Candy Fan

Zhiping Feng

Shuwei Gong

Dr. Yutao He

Jenny Hou

Xinyi Huang

Cathy Jin

Yi Jin

Zhongbo Li

Esme Liu

Ting Liu

Peter Ng

Rasheq Rahman

Hanlu Su

Dr. Hongjin Tan

Xiaohui Tong

Aolin Wang

Dr. Jun Wang

Yuhan Wang

Jenny Wu

Yijia Xia

Michael Xing

Dongying Yang

Fengzhao Yang

Xu Yuan

Duanhao Zhang

Xiaoyi Zhang

USC-CSSA Volunteers

Thank you to Susan M. Hess, C'est SMH Consulting  
and Jodie Tanaka, Tempo Creative

# Our Partners

## Chinatown Service Center

Chinatown Service Center (CSC) is the largest community-based Chinese American health and human services organization in Southern California. With the mission to provide outstanding services and advocacy that promote better quality of life and equal opportunity for immigrants and other communities so we can fulfill our vision of thriving lives in empowered communities, CSC has offered a multitude of services in assistance immigrants adjust to American life since it was founded in 1971. <http://www.cscla.org>



## CESASC

The Chinese-American Engineers and Scientists Association of Southern California (CESASC) is one of the largest and most established Chinese-American professional organizations in Southern California founded in 1962. It is dedicated to promoting the interests, aspirations and professional excellence of Chinese-American Engineers and Scientists. CESASC provides career and educational advancement opportunities, technical exchange, fellowship and community service. Website: <http://www.cesasc.org>



## SWC SSA

The Southwestern Chinese Students and Scholars Association (SWC SSA) is one of the largest and most prestigious Chinese students and scholars association in the Southwestern United States, established in 2003. It is responsible for managing and coordinating major activities among all the CSSAs located in Southern California, Arizona, Hawaii and New Mexico. The goals are to assist Chinese students and scholars in all aspects of their life, study, and career. SWC SSA serves a bridge between China and America, promoting Chinese culture. Website: <http://www.swcssa.us/>



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# LEAP 3.0 ANNUAL CONFERENCE

Energize California and Empower Your Career.



## NOTES

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## AE2C

AE2C is a 501(c)(3) non-profit entity dedicated to being the leading Asian American organization at the intersection of energy, environment and commerce matters in the United States and abroad and serves its members through professional development and networking opportunities that bridge the values, business practices and cultures of Asia and the United States. Based in Washington D.C., it has a network of more than 250 professionals across the world, including energy industry leaders, senior government officials, as well as entrepreneurs and consultants.

## LEAP

Leadership, Excellence, Aspiration and Platform (LEAP) is a career development forum series launched in early 2013. It is co-founded by the Chinese-American Engineers and Scientists Association of Southern California (CESASC) and Southwestern Chinese Students and Scholars Association (SWCSSA).

LEAP is committed to provide a professional networking platform to Chinese American professionals throughout their careers. Our workshops, conferences and professional seminars foster a community of students and scholars to exchange career-related guidance, education, mentorship and opportunities. We let your success start and accelerate from here!



Asian Americans in Energy,  
the Environment and Commerce

**[www.AE2C.org](http://www.AE2C.org)**

Contact us: [info@ae2c.org](mailto:info@ae2c.org)



**[www.leapcareer.org](http://www.leapcareer.org)**

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