



The 10th Annual Asian American Engineer of the Year Award

National Engineers Week 2011

Hilton Seattle Airport & Conference Center, Seattle WA
February 26, 2011



2011 AAEOY Executive Committee — Seattle
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FPO

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National Engineers Week 2011



Executive Chair's

Remarks

Michael Chang

2011 AAEOY Executive
Committee Chair

On behalf of the 2011 Asian American Engineer of the Year Award Executive Committee - Seattle and as the award ceremony chairperson, I would like to welcome all honorees, corporate representatives, distinguished guests, community leaders, CIE members and friends to this great event. The 2011 AAEOY (Asian American Engineer of the Year) award ceremony is the tenth AAEOY since it was introduced in 2002.

This year we have organized four tracks of seminars, focusing on Leadership, Aerospace, Software, and Medicine. With strong support from LEAP, Boeing, Microsoft, and the Seattle Chinese Bio-medical Association, we were able to recruit experts in these fields to share their valuable knowledge. Many thanks to these companies, organizations and speakers!

Besides seminars, we also had a job fair. Thanks to the support of companies like Boeing, Microsoft, IBM, Lockheed Martin, Northrop Grumman, NASA, Sandia National Laboratories, Texas Instrument, US Navy, Amazon and T-Mobile. This event creates a win-win situation for both companies and people seeking new career opportunities.

The AAEOY 2011 committee consists of many volunteers, from CIE members, and other organizations in greater Seattle area. We kicked off our planning activities for this banquet one year ago. CIE/USA Greater New York chapter's advice and experience played a huge role in both planning and execution. Since last February, CIE/USA Seattle chapter's board of members, officers, volunteers and friends have worked tirelessly to make this event successful. I would like to say "Thank you", "Thank you", "Thank you" to everyone involved.

Last, I would like to express my sincere appreciation to our sponsors, Boeing, IBM, Lockheed Martin, Northrop Grumman, Microsoft, NASA, Sandia National Laboratories, Texas Instruments, and the US Navy. These sponsors are not only leaders in their fields but also serve as great corporate citizens in giving back to the community. Without their sponsorship, in both funding and people resources, we would not be able to have such a great event today.

Thank you and enjoy the banquet!

2011 AAEOY Executive Committee - Seattle



National Engineers Week 2011

CIE-USA Chairman's Remarks

Dr. Jiin Chen



On behalf of the National E-week 2011 AAEOY Executive Committee - Seattle, it is my honor to welcome our awardees, corporate representatives and distinguished guests to the beautiful city of Seattle to celebrate the 2011 Asian American Engineer of the Year Award.

To acknowledge where we are today, I would like to pay tribute to the CIE Dallas Fort-Worth chapter for its vision and pioneering efforts in founding the Asian American Engineer of the Year Award in 2002. Since its inception and during the past 9 years, this Award has honored 158 recipients including 7 noble laureates, 14 presidents/chairmen of major corporations, 2 US secretaries, 3 commanders and 1 astronaut - in addition to the countless corporate vice presidents, technical fellows and divisional directors. We are so pleased to have these opportunities to honor them for their extraordinary achievements and contributions to their companies, academic institutions and various government branches.

Upon the 10th anniversary of AAEOY, we have not only reached a milestone in our journey to recognize Asian scientists, engineers and technologists in our country, but we have also begun to transform AAEOY as a separate independent brand under our CIE national organization. We strongly felt that AAEOY should become more inclusive for all Asian professional organizations and to all corporate, academic and government Asian employees. The AAEOY Award should belong to all of them. As such, we have begun to use "AAEOY Executive Committee - Seattle" as the host for this year's celebrated event, rather than the name of "CIE/USA-Seattle".

We have all known engineers and scientists who excel in solving problems with profound complexity. But we have not paid enough attention to the "leadership" attribute which is vital to the success of a project, an organization or a company. This has begun to change this year. Among the various activities we have planned for you, a new engineering leadership conference has been arranged during the afternoon of the event day. A new award category "Asian American Engineering Leadership Award" was also christened this year and I am glad to report we have 3 recipients who fall into this award category who would otherwise go unnoticed without it.

While I offer my heart felt congratulations to all the recipients of this year's Award, I would also like to congratulate the entire "AAEOY Executive Committee - Seattle" team under the leadership of Executive Chair Michael Chang. They have done an extraordinary job to show case this year's event and I believe it will be one of the best we have ever had.



2011  Executive Committee - Seattle

National Engineers Week 2011



Award
Banquet
Keynote
Speaker

Jim Albaugh

Executive Vice President
The Boeing Company
President and CEO
Boeing Commercial Airplanes

As President and CEO for Boeing Commercial Airplanes, Jim Albaugh is responsible for all of the company's commercial airplane programs and related services. He is a member of the Boeing Executive Council and is the senior executive in the Pacific Northwest.

Prior to assuming this position on Sept. 1, 2009, Albaugh was president and CEO of Boeing Integrated Defense Systems, a business unit providing integrated solutions to meet the needs of defense, space and intelligence customers in the United States and around the world. Other positions at Boeing include President and CEO of Boeing Space and Communications (S&C) for four years. Before leading Space and Communications, Albaugh was president of Boeing Space Transportation, a predecessor unit of S&C. He assumed that position after serving as president of Rocketdyne Propulsion & Power, part of the Rockwell aerospace and defense businesses acquired by Boeing in 1996.

Albaugh serves on numerous industry boards and is a Fellow of the American Institute of Aeronautics and Astronautics, and an elected member of the International Academy of Astronautics. He also sits on the boards of a variety of corporate and charitable organizations. A Washington state native, Albaugh holds bachelor's degrees in mathematics and physics from Willamette University and a master's degree in civil engineering from Columbia University.



National Engineers Week 2011

Award
Banquet
Keynote
Speaker

Dr. Qi Lu

President

Online Services Division
Microsoft Corporation



As president of Microsoft's Online Services Division (OSD), Dr. Qi Lu leads the company's search and online advertising efforts. Dr. Lu oversees the OSD Research & Development team which has responsibility for the evolution of Microsoft's search, portal and advertising services; the Online Audience Business Group; and the Advertiser and Publisher Solutions Business Group. Dr. Lu reports to Microsoft chief executive officer Steve Ballmer.

Prior to joining Microsoft, Dr. Lu spent 10 years as a Yahoo! senior executive. His roles included serving as the executive vice president of engineering for the company's Search and Advertising Technology Group where he oversaw the development of Yahoo!'s Web search and monetization platforms and vice president of engineering responsible for the technology development of Yahoo!'s search, e-commerce and local listings of businesses and products.

Before joining Yahoo!, Dr. Lu worked as a research staff member at IBM's Almaden Research Center and Carnegie Mellon University and was a faculty member at Fudan University in China. He received his bachelor of science and master of science in computer science from Fudan University and his Ph.D. in computer science from Carnegie Mellon University. Dr. Lu holds 20 U.S. patents



2011  Executive Committee – Seattle

National Engineers Week 2011

Award Program

4:30 pm	VIP Reception	Dr. James Lee
5:30 pm	Banquet Seating	
5:45 pm	Emcee's Welcome	Bernard Choi
5:50 pm	Marching of the Color Guards	US Navy
5:55 pm	National Anthem	Dr. Calvin Ling
6:00 pm	Executive Chair's Remarks	Michael Chang
6:05 pm	Congratulatory Letters	
6:15 pm	CIE-USA Chairman's Remarks	Dr. Jiin Chen
6:20 pm	Special Guest Messages	
6:30 pm	Keynote Speech	Dr. Qi Lu
6:40 pm	Dinner	
7:30 pm	Keynote Speech	Jim Albaugh
7:40 pm	Award Presentation – Part I	
8:30 pm	Distinguished Lifetime Achievement Award Dr. Calvin Hu, Professor of UC Berkeley	
8:40 pm	Award Presentation – Part II	
9:30 pm	Distinguished Science & Technology Award Dr. Ei-ichi Negishi, 2010 Nobel Laureate	
9:40 pm	Closing Remarks	Hsiung-Fei Lee
9:45 pm	2012 AAEOY Announcement	Dr. Kai Wang



National Engineers Week 2011

Letter
From
Governor
of Washington State

Christine O. Gregoire



CHRISTINE O. GREGOIRE
Governor



STATE OF WASHINGTON

OFFICE OF THE GOVERNOR

P.O. Box 40002 ♦ Olympia, Washington 98504-0002 ♦ (360) 753-6780 ♦ TTY/TDD (360) 753-6466

Greetings from the Governor

February 26, 2011

I am pleased to extend warm greetings to all of those attending the 2011 Asian American Engineer of the Year (AAEOY) Award Banquet.

Engineering is the foundation on which modern societies are built and sustained, and it is as much of an art as it is a science. As part of National Engineers Week, tonight's banquet is a wonderful opportunity to recognize Asian Americans who have made a significant contribution to the field of engineering.

I applaud the Chinese Institute of Engineers-USA and all of the AAEOY sponsors for making this event possible, and I congratulate all of this year's award recipients. In addition to the outstanding individuals receiving the Asian American Engineer of the Year Award, I congratulate Dr. Ei-ichi Negishi, recipient of the Distinguished Science and Technology Award, and Dr. Chenming Calvin Hu, recipient of the Lifetime Achievement Award.

Thank you all for your commitment to innovation and excellence, and please accept my best wishes for a memorable event.

Sincerely,

A handwritten signature in cursive script that reads "Christine O. Gregoire".

Christine O. Gregoire
Governor



2011 AAEOY Executive Committee – Seattle

National Engineers Week 2011



Letter From Senator

Maria Cantwell

MARIA CANTWELL
WASHINGTON

United States Senate

WASHINGTON, DC 20510-4705

January 14, 2011

Chinese Institute of Engineers
15921 NE 8th St., Suite 200
Bellevue, WA 98008

Dear Friends,

Thank you for inviting me to the *2011 Asian American Engineer of the Year Awards Program* as a part of National Engineers Week. I regret that I am unable to join you in person today, however, would like to extend my best wishes to all in attendance.

The success of our national and local economies depends greatly upon the talent and contributions of our engineers and scientists. Washington State has been recognized as a leader in many industries because of your diligent work and dedication to your professions. As members of CIE, you help preserve diversity and proficiency in the workplace, as well as the success of future engineers and scientists. Additionally, your participation in today's important discussions allow for further innovation, partnerships, and overall success in your fields.

The CIE-USA staff deserve many thanks for organizing this event. I would also like to congratulate the two recipients of tonight's awards. Above all, I want to thank those who have worked so hard to support family members in pursuit of difficult careers in engineering and the sciences. Your contributions do not go unnoticed.

In closing, once again, I would like thank you for your important achievements and work to help ensure diversity in the field of engineering sciences and technology. Please accept my best wishes for a successful event!

Sincerely,

Maria Cantwell
United States Senator

COMMITTEES:
COMMERCE, SCIENCE, AND
TRANSPORTATION
ENERGY AND NATURAL
RESOURCES
FINANCE
INDIAN AFFAIRS
SMALL BUSINESS



National Engineers Week 2011

Letter From Senator

Patty Murray



PATTY MURRAY
WASHINGTON

United States Senate
WASHINGTON, DC 20510-4704

COMMITTEES:
APPROPRIATIONS
BUDGET
HEALTH, EDUCATION, LABOR,
AND PENSIONS
RULES AND ADMINISTRATION
VETERANS' AFFAIRS

February 26, 2011

Chinese Institute of Engineers-USA
National Engineers Week 2011
Asian American Engineer of the Year Award
Hilton Seattle Airport & Conference Center
Seattle, Washington

Dear Friends,

Thank you so much for this opportunity to welcome you to National Engineers Week 2011 and to greet the members of the Chinese Institute of Engineers-USA (CIE-USA). I am also pleased to congratulate the Asian American Engineer of the Year Award recipient, who has shown outstanding achievement in the engineering field and community.

Since its inception in 1917, CIE-USA has been dedicated to fostering human relations and to promoting diversity and information exchange among engineers and scientists. It is a non-profit professional organization that is strongly committed to the well-being and success of the engineering community. I commend the CIE-USA for being a source of inspiration for all of us, and in particular, for many future generations.

I would also like to say to the entire CIE-USA that your work is vital to our nation, whether you are in government, private business or the academic world. I appreciate your dedication to your careers, as well as your commitment to the prosperity of the communities in which you live.

Thank you again for your kind invitation to join you at this event. Best wishes for a rewarding evening and my sincere congratulations to the winners of the Asian American Engineer of the Year Award.

Sincerely,

A handwritten signature in cursive script that reads "Patty Murray".

Patty Murray
United States Senator

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2011 AAEO Executive Committee - Seattle

National Engineers Week 2011



Letter
From
**Senator
of Canada**

Vivienne Poy

加拿大國會參議院議員



THE SENATE OF CANADA

利德華
安省華裔參議員

The Honourable Vivienne Poy
Toronto, Ontario

February 26, 2011

Dear Friends:

On behalf of the Senate of Canada, it gives me great pleasure to congratulate the Chinese Institute of Engineers (CIE-USA) and all the recipients of the 2011 Asian American Engineers of the Year (AAEOY) Awards.

The AAEOY Award ceremony is a chance to recognize the contributions and talents of Asian American engineers who through their unique personal and professional achievements have had an impact in the field of science and technology. For almost a decade, the CIE-USA has selected the most outstanding Asian-American engineers as recipients of the AAEOY Awards.

I am delighted to join you in celebrating the 2011 Asian American Engineers of the Year (AAEOY) Award Ceremonies, and wish everyone a most enjoyable and productive evening.

Yours sincerely,

Vivienne Poy

2011  Executive Committee – Seattle



National Engineers Week 2011

Letter
From
**Secretary
of Engery**

Steven Chu



The Secretary of Energy
Washington, DC 20585

February 2011

Greetings to friends at the 2011 Asian American Engineers of the Year Award!

My congratulations to the Chinese Institute of Engineers-USA for another year of outstanding service and commitment to the field of engineering. Our Nation appreciates your significant contributions over the past nine years and looks forward to your achievements in the areas of alternative energy sources and conservation.

I am very pleased to extend congratulations to Dr. Chenming Calvin Hu as the recipient of the Lifetime Achievement Award and to 2010 Nobel Laureate in Chemistry Professor Ei-Chi Negishi for the Distinguished Science and Technology Award. It is a tribute and mark of respect to be recognized by one's peers with this award.

While I will not be able to join you this year, please accept my best wishes for a successful and joyful celebration.

Sincerely,

A handwritten signature in dark ink that reads "Steven Chu".

Steven Chu



2011 AAEOY Executive Committee – Seattle

National Engineers Week 2011



Letter
From
**Secretary
of Commerce**

Gary Locke



UNITED STATES DEPARTMENT OF COMMERCE
The Secretary of Commerce
Washington, D.C. 20230

On behalf of President Barack Obama and the U.S. Department of Commerce, I wanted to extend my warmest greetings to the guests of the Asian American Engineer of the Year Award Program.

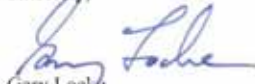
This award symbolizes the innovation and ingenuity that has long been a defining characteristic of Asian Americans. It is a rich history that has had a profound impact on the entire Nation, with Asian American engineers pioneering new technologies that made all American lives healthier, wealthier, and more productive. At this time of great economic challenges for America, honoring and building on the great Asian American tradition of innovation has never been more important.

The Department of Commerce is committed to supporting the Asian American and Pacific Islander community, and we have launched a series of programs in the last year to support the aspirations of Asian American entrepreneurs and innovators. Those who aspire to create and invent should look to this year's awardees as models of emulation.

This year's Lifetime Achievement Award recipient is Dr. Chenming Calvin Hu, the TSMC Distinguished Chair Professor of Microelectronics at the University of California in Berkeley. The Distinguished Science and Technology Award recipient is Professor Ei-Chi Negishi of Purdue University.

I want to congratulate them both on jobs very well done and thank the Chinese Institute of Engineers for all the work they have done and continue to do on behalf of Asian Americans and Pacific Islanders.

Sincerely,


Gary Locke



National Engineers Week 2011

Letter From Congresswoman

Judy Chu



JUDY CHU, Ph.D.
32nd DISTRICT OF CALIFORNIA

COMMITTEE ON THE JUDICIARY
Subcommittee on Immigration, Citizenship, Refugees, Terrorism, and the Nationality Act

COMMITTEE ON EDUCATION AND LABOR
Subcommittee on International Education and Labor

COMMITTEE ON OVERSIGHT AND GOVERNMENT REFORM
Subcommittee on Government Management and Organization



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916-943-8567 Fax

EAST LOS ANGELES DISTRICT OFFICE
4116 E. 12th Street, Suite 200
East Los Angeles, CA 90022
323-307-9954
323-307-0065 Fax

February 23, 2011

Dear Friends,

It is with great pleasure I welcome everyone to the 2011 Asian American Engineer of the Year Awards. Every year, the Chinese Institute of Engineers/USA brings together the top innovators in our country to share accomplishments and celebrate those who have achieved great milestones in their careers. I commend CIE/USA not only for their work on behalf of promoting Asian Americans in the science and technology industry, but also for their dedication to promoting diversity and cooperation among all scientists and engineers.

I would like to congratulate tonight's special award recipients for their continued excellence in the fields of science and technology: Professor Ei-Chi Negishi, the 2010 Nobel Prize co-recipient in Chemistry and this year's AAEOY Distinguished Science and Technology recipient; and Dr. Chensheng Calvin Hu, this year's AAEOY Lifetime Achievement Award recipient. All of tonight's award recipients have undoubtedly contributed to the betterment of our daily lives through technological improvements and better understandings of the world around us.

Not only should your accomplishments in the lab be recognized but also the pride and commitment each of you brings in serving the Asian American community. Tonight's awardees represent great professional achievements as well as dedication in serving the Asian American community.

On behalf of the constituents of the 32nd Congressional District, I wish the Asian American Engineer of the Year Awards many more years of continued success.

Sincerely,

JUDY CHU, Ph.D.
Congresswoman for 32nd District



2011 AAEOY Executive Committee - Seattle

National Engineers Week 2011



Letter
From
Congressman

Doc Hastings

DOC HASTINGS
4th District, Washington

**COMMITTEE ON
NATURAL RESOURCES**
Ranking Republican Member



1200 Longworth House Office Building
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Tacoma, WA 98401
(252) 412-0142
www.hastings.house.gov

Congress of the United States House of Representatives

February 26, 2011

Chinese Institute of Engineers Seattle
15921 NE 8th St., Suite 200
Bellevue, Washington 98008

Dear Friends:

Thank you for inviting me to attend the 2011 Asian American Engineer of the Year awards banquet. Though I am unable to join you in person, I appreciate the chance to offer my congratulations as you celebrate National Engineer's Week.

Engineers dedicate themselves to turning ideas into reality and I welcome the important contributions you make in today's society.

I would like to extend special congratulations to Dr. Chenming Calvin Hu on receiving the Lifetime Achievement Award and Dr. Ei-ichi Negishi on receiving the Distinguished Science and Technology award. Thank you for your impressive contributions and dedication to your work.

I commend all of you for your hard work in advancing your profession and applaud the honorees here tonight. Your efforts will ensure that America remains on the cutting-edge of technology for years to come.

Sincerely,

Doc Hastings
Member of Congress



National Engineers Week 2011

Letter
From
Congressman

Michael M. Honda



THE HONORABLE MICHAEL M. HONDA
MEMBER OF CONGRESS

**Greetings from Congressman Michael M. Honda to
the Chinese Institute of Engineers - USA on the Occasion of
the 2011 Asian American Engineer of the Year Award**

February 26, 2011

It is with great pleasure that I welcome everyone to the 2011 Asian American Engineer of the Year Award hosted by the Chinese Institute of Engineers - USA. I would like to recognize the organization's dedicated work to promote engineering, science, and technology within the Asian American Pacific Islander (AAPI) community.

Founded in 1917, the Chinese Institute of Engineers - USA (CIE-USA) is a professional society that promotes collaborations among Chinese American engineers, scientists, and other professionals in the fields of science, technology, engineering, and mathematics. CIE-USA consists of five regional chapters located in Dallas/Fort Worth, New York, New Mexico, the San Francisco Bay Area, and Seattle, and one chapter overseas in China. As part of National Engineering Week, tonight's Asian American Engineer of the Year Award will recognize AAPI professionals who are leaders in their field. This year, Dr. Chenming Calvin Hu from the University of California, Berkeley will receive the Lifetime Achievement Award. In addition, Professor Ei-Chi Negishi from Purdue University will be honored with the Distinguished Science and Technology Award.

I would like to thank the Chinese Institute of Engineers - USA for its dedication to promoting partnerships in science, technology, engineering, and math throughout the United States. I give my best wishes for the success of this evening's event.

With warm regards,

Michael M. Honda
Member of Congress



2011  Executive Committee - Seattle

National Engineers Week 2011



Letter
From
Congressman

Jay Inslee

JAY INSLEE
1ST DISTRICT, WASHINGTON

COMMITTEE ON ENERGY AND COMMERCE
TELECOMMUNICATIONS AND THE INTERNET
OVERSIGHT AND INVESTIGATIONS
ENERGY AND AIR QUALITY

COMMITTEE ON RESOURCES
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LANDS

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Congress of the United States
House of Representatives
Washington, DC 20515-4701

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WASHINGTON, DC 20515-4701
(202) 225-6311
FAX: (202) 226-1606

Jay.inslee@mail-house.gov
www.house.gov/inslee

December 20, 2010

Chinese Institute of Engineers
11911 NE First St. #308
Bellevue, WA 98005

Friends:

I would like to extend my warmest regards for the celebration of National Engineers week and for the presentation of the Asian American Engineer of the Year award.

It is entirely appropriate that your event is taking place in Western Washington, which has been a leader in scientific, technological and engineering advancements that have changed the world. Surely, engineers and engineering have made our lives better and our nation more prosperous.

I wish to acknowledge in advance those who will receive the Asian American Engineer of the Year award and other recognition from the Chinese Institute of Engineers. I trust that this year's recipients, like past recipients, will inspire a new generation to future leadership and excellence in the field.

Please accept my best wishes for a happy and successful event.

Very Truly Yours,

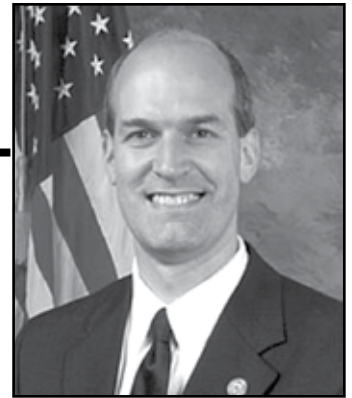
JAY INSLEE
Member of Congress



National Engineers Week 2011

Letter From Congressman

Rick Larsen



U.S. HOUSE OF REPRESENTATIVES
WASHINGTON, DC 20515
(202) 225-7800

OFFICE OF THE CLERK
U.S. HOUSE OF REPRESENTATIVES
WASHINGTON, DC 20515
(202) 225-7800

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WASHINGTON, DC 20515
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U.S. HOUSE OF REPRESENTATIVES
WASHINGTON, DC 20515
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RICK LARSEN
2ND DISTRICT, WASHINGTON

Congress of the United States
House of Representatives
Washington, DC 20515-4702

U.S. HOUSE OF REPRESENTATIVES
WASHINGTON, DC 20515
(202) 225-7800

OFFICE OF THE CLERK
U.S. HOUSE OF REPRESENTATIVES
WASHINGTON, DC 20515
(202) 225-7800

January 18, 2011

Dear Friends:

As co-chair of the Congressional US-China Working Group, I am pleased to write and congratulate the Chinese Institute of Engineers-USA (CIE-USA) for its good work in promoting positive relations among the international engineering community. CIE-USA's focus on human relations and promotion of diversity and information exchange among engineers and scientists is important and it's an honor to lend my voice of support for your good efforts.

Additionally, CIE's strong support for Science, Engineering, Technology and Mathematics (STEM) in communities across United States is critically important and the organization's focus on academic and professional excellence in the Asian Pacific American community through programs advancing innovation, collaboration and education is commendable.

In particular, I want to commend you for the CIE-sponsored Asian American Engineer of the Year Award Program (AAEOY) that is presented during Engineers Week next month. It is important to create a forum for engineering organizations to recognize the outstanding Asian American professionals and this program succeeds greatly in this regard.

Congratulations, and thank you for your service to building stronger ties among our engineering community.

Sincerely,

Rick Larsen
U.S. Representative
Washington State, 2nd District



2011 AAEOY Executive Committee – Seattle

National Engineers Week 2011



Letter
From
Congressman

Jim McDermott

COMMITTEE ON WAYS AND MEANS
SUBCOMMITTEE ON INVESTMENT, EDUCATION, AND
EMPLOYMENT, CHAIRMAN
SUBCOMMITTEE ON SELECT NATIONAL PRIORITIES

JIM McDERMOTT
7TH DISTRICT, WASHINGTON

CO-CHAIR
CONGRESSIONAL TASK FORCE ON
SUSTAINABLE HIV/AIDS
CONGRESSIONAL CAUCUS ON
INDIA AND INDIAN AMERICANS

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

January 10, 2011

Chinese Institute of Engineers/USA – Seattle
15921 NE 8th Street, Suite 200
Bellevue, WA 98008

Dear Friends:

Greetings, and welcome to the Great State of Washington to the 2011 Asian American Engineer of the Year Award Banquet. I am glad that you chose to hold this year's conference in Seattle during National Engineers Week. This important event gives our community an opportunity to recognize the significant contributions of Asian Americans in the field of engineering, science, technology and business.

I hope that tonight's speakers and awardees stimulate a rich conversation about the important role that our Asian American community can play in making the state of Washington an even better place to live and do business. I extend my best wishes, and hope that this community celebration is a resounding success.

Sincerely,

JIM McDERMOTT
Member of Congress

1025 LONGWORTH HOUSE CHIEF BUILDING
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2011  Executive Committee – Seattle



National Engineers Week 2011

Letter From Congressman

David G. Reichert



DAVID G. REICHERT
R-OR-04

COMMITTEE ON WAYS AND MEANS
U.S. HOUSE OF REPRESENTATIVES
1000 OAKLEY BUILDING
WASHINGTON, DC 20515



Congress of the United States
House of Representatives
Washington, DC 20515-4708

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205-225-2000
205-225-2001
205-225-2002
205-225-2003

205-225-2004
205-225-2005
205-225-2006
205-225-2007
205-225-2008
205-225-2009

February 26, 2011

CIE - Seattle Chapter
15921 NE 8th Street, Suite 200
Bellevue, WA 98008

Dear Asian American Engineers and Research Scientists,

Thank you for the invitation to attend tonight's celebration. Tonight is a great opportunity to honor exceptional engineers at the Chinese Institute of Engineers (CIE/USA - Seattle Chapter) and appreciate the efforts of those nominated for the Asian American Engineer of the Year award (AAEOY). Additionally, tonight CIE will award the Distinguished Science and Technology Award as well as the Distinguished Lifetime Achievement Award.

The Chinese Institute of Engineers has been a leading force in the engineering field since 1917. The work and effort of all the members of CIE help to keep our American economy strong, vibrant and innovative. The industrious spirit of America is alive and well tonight in this ballroom. Thank you to all the CIE members for the many years of hard work, research and success.

By spending time encouraging the development of advanced technologies and industrial research, you ensure higher visibility for important research that helps drive our economy and create the technologies that improve our lives.

I offer my congratulations to the winners tonight and the Seattle Chapter of the Chinese Institute of Engineers for putting on this wonderful event and celebration. I'm sorry I can't join you at the Hilton tonight but, again, thank you for the invitation to attend.

Thank you for your service to the community and the engineering, science, and technology professions!

Sincerely,

David G. Reichert
Member of Congress



2011 AAEOY Executive Committee - Seattle

National Engineers Week 2011



Letter From Congresswoman

Cathy McMorris Rodgers

CATHY MCMORRIS RODGERS
Member of Congress
Chairman
NATURAL RESOURCES
PRESIDENT RICHARD M. DALE
JANIS D. BILLYEUS
CHIEF OF THE REPRESENTATION
OFFICE
PETER M. BILLYEUS
VICE CHIEF
OFFICE

Congress of the United States House of Representatives

January 14, 2011

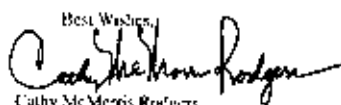
TO THE
ADMINISTRATIVE
SERVICES
CHIEF
FINANCE
GENERAL
COUNSEL
DEPUTY
CHIEF OF STAFF
LEGISLATIVE
MANAGEMENT
SERVICES

To: The Celebrants of the 2011 AAEOY Awards
Greetings,

I am sorry I could not join you for your recognition ceremony and awards celebration. I am sure it will be a wonderful event, and I know the award recipients are outstanding.

First, please allow me to take this opportunity to say thank you to each of you. Thank you for your dedication to exploration and discovery. Thank you for the many contributions that your work has brought to our communal knowledge as a nation, and as a member of a global community. Thank you for your leadership and public service.

And to the award recipients, I take this opportunity to say congratulations and well done! Keep wondering, keep asking, keep seeking. Happy celebrations!

Best Wishes,

Cathy McMorris Rodgers
Member of Congress

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2011 AAEOY Executive Committee - Seattle



National Engineers Week 2011

Letter
From
Congressman

Adam Smith



ADAM SMITH
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ANALYSIS AND COUNTERINTELLIGENCE
TECHNICAL AND TACTICAL INTELLIGENCE
VICE CHAIR
NEW DEMOCRAT COALITION

February 26, 2011

Chinese Institute of Engineers-USA
3502 Lilac Street Southeast
Auburn, Washington 98092

Dear Friends,

Thank you for inviting me to participate in this year's Asian American Engineer of the Year Award Banquet. I regret that because of a prior engagement I am unable to join you this evening.

I am impressed by the work of the Chinese Institute of Engineers in the USA (CIE-USA), with its efforts to promote human relations and the active exchange of ideas among engineers and the scientific community around the world. With professional excellence and educational outreach, members of the CIE-USA improve our communities and our country, while fostering innovation and promoting growth. The CIE-USA counts among its members Nobel laureates, CEOs, and community and business leaders.

I would like to take this opportunity to congratulate this year's awardees, Dr. Chenming Culvin Hu, the TSMC Distinguished Chair Professor of Microelectronics at the University of California in Berkeley and Professor Ei-ichi Negishi, the Herbert C. Brown Distinguished Professor of Organic Chemistry at Purdue University and the shared recipient of the 2010 Nobel Prize in Chemistry. Through their scholarship and ingenuity, Dr. Hu and Dr. Negishi have expanded our knowledge of the world and made critical contributions to their respective fields. Both in their research and their work mentoring the next generation of teachers and researchers, Dr. Hu and Dr. Negishi have left a lasting mark.

Again, I regret that I cannot join you this evening, but I am pleased that the Puget Sound region can host this year's award banquet and hope you have a successful event.

Sincerely,

Adam Smith
Member of Congress



2011  Executive Committee - Seattle

National Engineers Week 2011



Letter
From
Congressman

David Wu

DAVID WU
U.S. House of Representatives
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Congress of the United States
House of Representatives
Washington, DC 20515-3701

COMMITTEE ON
SCIENCE AND TECHNOLOGY
SUBCOMMITTEE ON
TECHNOLOGY, INNOVATION, AND
INFRASTRUCTURE
EDUCATION AND LABOR
SUBCOMMITTEE ON
WORKFORCE DEVELOPMENT, TRAINING, AND
EDUCATION

February 26, 2011

Dear Friends:

I am writing to offer my heartfelt congratulations to the recipients of this year's Asian American Engineer of the Year (AAEOY) award. Let me extend my warmest greetings to everyone gathered in Seattle for the AAEOY celebration during National Engineers Week.

I commend the Chinese Institute of Engineers-USA (CIE-USA) for hosting this prestigious event. As a nonprofit professional organization, CIE-USA has been a leader in promoting diversity and information exchange among Asian American engineers and scientists. Since 2002, CIE-USA has awarded more than 130 Asian American engineers with the AAEOY award.

Again, I congratulate the 2011 AAEOY award recipients. You have distinguished yourselves as the brightest and most respected players in science and engineering, and the impacts of your achievements are global. This event is not only a measure of your outstanding accomplishments, but of your hard work and diligence for the Asian American community.

I applaud you for your continued work in strengthening Asian American leadership and achievement in science and technology. Let us continue to work together toward an innovation society that makes the investments in education, research, and technology transfer that are necessary to turn ideas into new products, new services, and new jobs.

My best wishes to all of you for continued success.

With warm regards,

David Wu
Member of Congress

2011 AAEOY Executive Committee – Seattle



National Engineers Week 2011

Letter
From
Seattle Mayor

Michael McGinn



City of Seattle • Office of the Mayor

GREETINGS

January 19, 2011

Dr. Jun Chen
National Chair
Chinese Institute of Engineers/USA

Greetings,

On behalf of the people and city of Seattle, I extend a warm welcome to the members and guests of the *2011 Asian American Engineer of the Year Award* to be held February 25-26 during National Engineers Week here in the Seattle area.

This event is the culmination of the efforts of many volunteers, members, sponsors and community organizations - all working together for a great goal: to recognize the significant contribution of Asian American Engineers in the United States and to inspire innovation in new areas of alternative energy, conservation and climate control.

Please enjoy your time in our city and the beautiful Pacific Northwest region. I hope that you have an educational, entertaining conference and celebration honoring your 2011 award winners.

Sincerely,



Michael McGinn
Mayor



2011  Executive Committee - Seattle

National Engineers Week 2011



Distinguished
**Lifetime
Achievement**
Award

Dr. Chenming Calvin Hu

Chair Professor of Microelectronics
University of California, Berkeley

Dr. Chenming Calvin Hu is the TSMC Distinguished Chair Professor of Microelectronics in Electrical Engineering and Computer Sciences at University of California, Berkeley. He serves on the board of SanDisk Corp. and the nonprofit Friends of Children with Special Needs. From 2001 to 2004 he was the Chief Technology Officer of TSMC, world's largest dedicated integrated circuits manufacturing company. Previously he was the board chairman of the non-profit East Bay Chinese School, Oakland, CA. and the founding chairman of Celestry Design Technologies until it was acquired by Cadence Design Systems in 2002.

A renowned researcher, he authored four books and 800 research papers and is honored with membership in several national academies -- the US National Academy of Engineering, the Chinese Academy of Sciences, and Academia Sinica. He is a fellow of the IEEE and the Institute of Physics and an Honorary Professor of CAS Microelectronics Institute, and National Chiao Tung University. He received UC Berkeley's highest honor for teaching -- the Berkeley Distinguished Teaching Award. The 2009 SRC Aristotle Award recognized him as an influential and caring mentor of many outstanding research students.

IEEE called him a microelectronics visionary when presenting to him the Jun-ichi Nishizawa Medal for research leading to small, reliable, and high-performance electronics. His other awards include the IEEE Jack A. Morton Award for contributions to transistor reliability and the DARPA Most Significant Technological Accomplishment Award for co-developing FinFET. FinFET is a promising post-2013 MOSFET structure has set new world record of the smallest transistor. He received the IEEE Solid State Circuits Award for the BSIM transistor model. BSIM is the first industry standard for integrated circuits simulation and has been used in designing IC products with cumulative sales of many hundred billion dollars. His inventions have received over 100 US patents.

Dr. Hu received his B.S. degree from National Taiwan University and M.S. and Ph.D. degrees from University of California, Berkeley, all in electrical engineering. He enjoys traveling and painting with his sons, Raymond and Jason.

2011  Executive Committee – Seattle



National Engineers Week 2011

Distinguished
**Science &
Technology**
Award



Dr. Ei-ichi Negishi

Distinguished Professor of Chemistry
Purdue University

Ei-ichi Negishi, H. C. Brown Distinguished Professor of Chemistry, Purdue University, grew up in Japan and received his Bachelor's degree from the University of Tokyo (1958). He then joined a chemical company, Teijin. In 1960 he came to the University of Pennsylvania on a Fulbright-Smith-Mund All-Expense Scholarship and obtained his Ph.D. degree (under Prof. A. R. Day) in 1963. He returned to Teijin but decided to pursue an academic career. In 1966, he joined Professor H. C. Brown's Laboratories at Purdue as a Postdoctoral Associate and began investigating various C—C bond forming reactions of organoboranes. He was appointed Assistant to Professor Brown in 1968. It was during the following few years that he began feeling the need for some catalytic ways of promoting organoborane reactions.

Negishi went to Syracuse University as Assistant Professor in 1972 and began his life-long investigations of transition metal-catalyzed organometallic reactions for organic synthesis. His initial and largely unsuccessful attempts to develop a Cu-catalyzed conjugate addition or substitution reaction of organoboranes soon led him to adopt a then novel strategy of considering all 60 or so non-radioactive metals as components of both stoichiometric reagents and catalysts. During the 1976-1978 period he published about 10 papers describing the Pd- or Ni-catalyzed cross-coupling reactions of various organometals including those of Mg, Zn, B, Al, Sn, and Zr. Today, those involving Zn, Al, and Zr are called the Negishi coupling. His success in developing the Pd- or Ni-catalyzed alkenylzirconiums was the beginning of many series of his subsequent investigations of organozirconium chemistry leading to the discoveries and developments of the Zr-catalyzed alkyne carboalumination often called the Negishi alkyne carboalumination (1978-), the Zr-catalyzed asymmetric alkene carboalumination (ZACA reaction) (1995-), and the chemistry of low-valent zirconocenes generated via $n\text{Bu}_2\text{ZrCp}_2$ and other dialkylzirconocenes widely known as the Negishi reagents (1985-).

Negishi was promoted to Associate Professor at Syracuse University in 1976 and invited back to Purdue University as Full Professor in 1979. In 1999 he was appointed the inaugural H. C. Brown Distinguished Professor of Chemistry. Various awards he has received include Guggenheim Fellowship (1987), the 1996 A. R. Day Award, a 1996 Chemical Society of Japan Award, the 1998 ACS Organometallic Chemistry Award, a Humboldt Senior Researcher Award, Germany (1998 - 2001), the 2000 RSC Sir E. Frankland Prize, the 2007 Yamada-Koga Prize, the 2010 ACS Award for Creative Work in Synthetic Organic Chemistry, the honor of 2010 Japanese Order of Culture, and the 2010 Nobel Prize in Chemistry.

Negishi has published over 400 publications including two books, one of which is Handbook of Organopalladium Chemistry for Organic Synthesis, 2 Vols., Negishi, E., Ed., Wiley-Interscience, New York, 2002, 3279 pp., and several patents. Collectively, these publications including two books have been cited over 19,000 times (H-index of 69). Negishi has been cited in Marquis Who's Who in America and Marquis Who's Who in the World. The Negishi coupling has been cited in Merck Index (2001-).



2011  Executive Committee - Seattle

National Engineers Week 2011



Asian
American
Executive
of the Year

Dr. Ramakrishna Desiraju

Partner and Vice President
IBM

Dr. Ramki Desiraju is a Partner and Vice President in IBM Global Business Services. As the leader responsible for Application Management Services and Global Delivery in North America, he oversees a practice that creates and delivers a complete set of solutions for application maintenance services. These solutions are primarily intended to drive three key areas: 1) help clients achieve increasing value from their application investments, 2) deliver using proven processes and methods that are continually improved through competency and professional development programs, and 3) offer flexible entry points that allow clients to choose the level of service and the degree of productivity, flexibility, risk, and value, that makes sense for their business. As part of this role, Dr. Desiraju encourages and oversees global delivery to offer the best value proposition to the customers, leveraging IBM's vast network of global delivery centers in India, Philippines, China and Brazil, serving customers in US and Canada.

He was one of the six leaders expatriated to India to improve the competitive edge of its India Global Delivery which he accomplished by establishing the global delivery supply chain service line and subsequently transforming the global delivery center operating model.

Dr. Desiraju has a broad background in global operations, practice management, business transformation, operations integration, analysis, design, planning and management of supply chains, service organizations, manufacturing, and distribution systems. He has over 19 years of extensive knowledge in supply chain management, decision support systems, mathematical modeling, analysis and design. He has managed client relationships and portfolios of client projects for large enterprises. His current interests include integration, optimization and transformation of global supply chains.

Ramki has a Ph.D. and MS in Industrial Engineering and Operations Research from UW-Madison, a second Masters degree in Industrial and Management Engineering from IIT Kanpur, and a B.Tech in Mechanical Engineering from National Institute of Technology, Warangal. In addition to publishing in leading journals, Dr. Desiraju is the Principal Investigator on three patents.



National Engineers Week 2011

Asian
American
Engineer
of the Year



Capitan Jon Hill

Technical Director and Program Manager
United States Navy

CAPT Jon Hill, USN is the Major Program Manager (MPM) for Shipboard Combat Systems in the Navy's Program Executive Office for Integrated Warfare Systems (PEO IWS). He is Department of Defense Acquisition Program Management Level III Certified and is a Navy Engineering Duty Officer (EDO).

A native of Texas, CAPT Hill is a 1985 graduate of St. Mary's University, San Antonio. He holds an M.S. in Applied Physics and Ordnance Engineering from the Naval Postgraduate School (NPS) Monterey, California and is a graduate of Defense Acquisition University.

As an Ensign, he qualified in Surface Warfare aboard USS RICHARD E. BYRD (DDG-23). He has served in leadership and engineering positions in PEO Theater Surface Combatants (TSC), the AEGIS Shipbuilding Program, and as the 3rd Technical Director and MPM for AEGIS Ballistic Missile Defense (BMD).

His field tours include Naval Surface Warfare Center (NSWC) Dahlgren Division where he published his technical paper entitled "Maximum Heading Error for STANDARD Missile (SM-2) Block IVA Backrange Intercepts" and Port Hueneme Division NSWC (PHD NSWC) where he directed the emergent ordnance offload for USS COLE (DDG-67) following the terrorist attack in 2000.

CAPT Hill has also served as a JOINT STAFF intern, as a Navy Liaison on the U.S. Army Staff for Missile Systems, and as Chief of Staff for the Deputy Assistant Secretary of the Navy for Integrated Warfare Systems (DASN IWS). Additionally, he was a senior fellow on the Chief of Naval Operations Strategic Studies Group (CNO SSG XXVII).

CAPT Hill's personal awards include the Defense Superior Service Medal, the Legion of Merit, the Defense Meritorious Service Medal, the Meritorious Service Medal (three awards), the Joint Service Commendation Medal, the Army Commendation Medal, the Navy and Marine Corps Commendation Medal (two awards), and the Navy Achievement Medal (two awards). He is authorized to wear staff badges for the Office of the Secretary of Defense, Joint Staff, and U.S. Army.

CAPT Jon Hill is married to the former Cynthia McMillan of San Antonio, Texas. They reside in Great Falls, Virginia with their three daughters, Sophie (1992), Rachel (1995) and Carly (2005).



2011 AAEOY Executive Committee - Seattle

National Engineers Week 2011



Distinguished
**Corporate
Diversity**
Award

Christopher Higa

Corporate Manager

Northrop Grumman Corporation

Chris Higa is currently the Manager of University Relations and Recruiting for the Northrop Grumman Corporate Office. The charter of his role is to design and deploy strategies and oversee operations that align university relations and key partnerships necessary to recruit top diverse college talent. As chair of the Northrop Grumman University Relations Council, he is instrumental in shaping the strategic direction of the University Relations priorities for the entire corporation. Chris leads many efforts in partnership with organizations such as Technology, Engineering, Diversity and Inclusion and Corporate Citizenship.

Chris is actively involved with external organizations as a selected member of the National Association of Colleges and Employers Leadership Advancement Program. He is also currently involved with American Society of Engineering Education as a member of the Corporate Membership Council and serving on the 2011 Conference for Industry and Education Collaboration conference management team, specifically as the Exhibit Chair.

Before joining University Relations and Recruiting in 2008, Chris' professional career was in engineering. His last role was that of a multi-discipline manager responsible for technical, budget, schedule and staffing on a critical program. Chris also served as a functional section manager responsible for engineer's career growth, development and performance appraisals.

Chris came to Northrop Grumman through Acquisition of TRW and received numerous awards for his contributions towards space and laser programs. He started working at TRW in 1996 as a Structural Engineer and later cross trained as a Mechanical Designer. Chris started his career as a Structural Engineer at McDonnell Douglas in 1990.

Chris received his Bachelor of Science, Mechanical Engineering, degree from California State University Long Beach in 1989. He worked through school at McDonnell Douglas starting in 1986 in the Electrical Materials and Process laboratory as an associate engineer.

Chris' wife of 19 years and 3 children, along with his faith, are what he considers most important in his life. He has enjoyed serving as a youth leader and playing music in various bands. Chris also enjoys serving the community through his church.



National Engineers Week 2011

Asian
American
Engineer
of the Year



Dr. Xuedong Huang

Partner Architect

Online Services Division, Microsoft Corporation

Dr. Xuedong Huang is Partner Architect for Microsoft's Online Services Division working on Bing's intent services. He was previously General Manager of MSR Incubation leading several internal startups including mobile ads, Telepresence, and Response Point. He joined Microsoft in 1993 to found Microsoft's speech recognition efforts and served as General Manager for Speech R&D till 2004. He and his team shipped SAPI 1.0-6.0, Speech Server 2004 and speech technologies for Windows, Office, CE, and Exchange.

Prior to joining Microsoft, Dr. Huang spent 3 years as a Research Computer Scientist at Carnegie Mellon University (CMU). As a faculty member, he directed developing CMU's Sphinx-II, which had the best performance in 1992's DARPA speech benchmarking with the most dramatic error reduction in the history of all DARPA sponsored speech evaluations. He received Alan Newell Research Excellence Medal in 1992 and IEEE Signal Processing Society Paper Award in 1993. He has published over 100 papers and 2 books: Hidden Markov Models for Speech Recognition (Edinburgh University Press 1990) and Spoken Language Processing (Prentice Hall 2001). He currently holds over 60 US patents.

Dr. Huang received his BS in CS from Hunan University, China, MS in CS from Tsinghua University, China, and PhD in EE from the University of Edinburgh, Scotland. He was named a Fellow of the IEEE for his contributions to speech technologies in 2000. He currently serves as the Honorary Dean of his alma mater Hunan University's Software Engineering College and the Industrial Advisory Board of University of Washington's EE Department.



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Asian
American
Engineer
of the Year

Dr. Subramanian S. Iyer
Fellow and Chief Technologist
IBM

Subramanian S. Iyer is IBM Fellow and Chief Technologist at the Microelectronics Division, IBM Systems & Technology Group, and is responsible for technology strategy and competitiveness, embedded memory and 3 Dimensional Integration. Till recently he was Director of 45nm CMOS Development. He obtained his B.Tech in Electrical Engineering at the Indian Institute of Technology, Bombay, and his M.S. and Ph.D. in Electrical Engineering at the University of California at Los Angeles. He joined the IBM T. J. Watson Research Center in 1981 and was manager of the Exploratory Structures and Devices Group till 1994, when he founded SiBond LLC to develop and manufacture Silicon-on-insulator materials. He has been with the IBM Microelectronics Division since 1997. Dr. Iyer has received two Corporate awards and four Outstanding Technical Achievement awards at IBM for the development of the Titanium Salicide process, the fabrication of the first SiGe Heterojunction Bipolar Transistor, the development of embedded DRAM technology and the development of eFUSE technology. His current technical interests and work lie in the area of 3-dimensional integration for memory sub-systems and the semiconductor roadmap at 22nm and beyond. He holds over 40 patents and has received 22 Invention Plateau awards at IBM and is a Master Inventor. He received the Distinguished Alumnus award from the Indian Institute of Technology, Bombay in 2004. Dr. Iyer has authored over 150 articles in technical journals and several book chapters and co-edited a book on bonded SOI. He has served as an Adjunct Professor of Electrical Engineering at Columbia University, NY. Dr. Iyer is a Fellow of IEEE and a Distinguished Lecturer of the IEEE and Chair of the mid-Hudson chapter of the Electron Device Society.



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of the Year



Yung A. Le
Director

Lockheed Martin Aeronautics

A professional engineer and a seasoned international business development executive, Mr. Le leads campaigns to sell sophisticated military aircraft to international countries, thereby enabling U.S. government foreign policy objectives. He has 27 years of experience with Lockheed Martin.

Currently the Director of International Business Development, Mr. Le is responsible for aircraft sales to governments in European and near Middle East regions. He led and participated in aircraft sales to countries in Asia, Europe and the Near East that have values of \$9 billion. Sales of aircraft under his leadership have created many long-term jobs throughout the U.S. defense industrial base and within international countries.

Earlier in his career as a professional engineer, Mr. Le managed the development and integration of state-of-the-art avionics systems for military fighter aircraft. As a program manager, he later demonstrated his engineering and project management expertise when he rapidly created solutions that reduced the cost of the F-22 program to meet a key customer affordability requirement. Under his leadership the program accumulated millions of dollars in savings within two years.

Because of his successful leadership of business initiatives of international and national significance, he has twice been awarded the company's highest award – the Aero Star. He was also chosen to participate in the company's highly selective executive development program.

Mr. Le is firmly committed to raising the awareness of Asian American contributions throughout the DFW metroplex. A recent effort was his role in helping the creation of the Tarrant County Asian American Chamber of Commerce.

Mr. Le is also the executive lead for Lockheed Martin's Council of Asian American Leaders, responsible for the Midwest region. He is responsible for developing programs and conferences that provide leadership development for over 1,400 Asian American employees at Lockheed Martin across four states in the Midwest region.

Mr. Le and his wife Mary has three sons; Micah, Gabriel and Raphael.



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Asian American
**Engineering
Leadership**
Award

Dr. Sang J. Lee

Principal Mechanical Engineer,
Lockheed Martin Missiles and Fire Control

Dr. Lee serves as a Group Technical Staff member, mentor and teacher for the Lockheed Martin Missiles and Fire Control engineering community in the fields of structural dynamics, ballistics, impact and penetration, gas dynamics and fluid/solid interactions.

Dr. Lee is a subject matter expert in the field of high-velocity dynamics modeling and simulation to include blast effects, penetration, ballistics and fluid dynamics. He developed a ground-breaking modeling technique to predict the ballistic performance of advanced multi-component ceramic/composite armor against armor-piercing and fragmentary threats.

Dr. Lee developed numerical code to predict missile launch tube transient gas dynamics for numerous tube-launched missile programs including Multiple-Launch Rocket System (MLRS), Guided Multiple Launch Rocket System (GMLRS), Army Tactical Missile System (ATAC-MS), PATRIOT [Phased Array Tracking to Intercept of Target] Advanced Capability-3 (PAC-3), MSE, and Line-of-Sight Anti-Tank (LOSAT).

Dr. Lee holds a patent for "Apparatus for Inhibiting Effects of an Explosive Blast," US 7,631,589, which is a vital component for mine blast survival.

Dr. Lee has been an active participant of professional societies including AIAA, ASME and SAVIAC. He has published papers in the fields of continuum mechanics, gas dynamics, composite materials, terminal ballistics and plume impingement.

Dr. Lee has been an active leader in his community:

- Served as the building committee chairman for his church's expansion program to include leading the fund-raising, design and construction phases.
- Served as a chairman of the Christian Businessmen's Committee of the Dallas-Ft. Worth chapter.
- Served as a branch representative for the United States-Korea National Prayer Breakfast Dallas branch.

Dr. Lee was born and raised in Korea. After military requirement with the Republic of Korea Navy, he came to the United States for higher education. He received a B.S. in Engineering Mechanics, M.S. and Ph.D. in Theoretical and Applied Mechanics – all from the University of Illinois at Urbana-Champaign. He is married to Dr. Young H. Lee, who is also a graduate of the University of Illinois. She holds a Ph.D. in Nutritional Sciences and is a faculty member of the University of Texas Southwestern Medical School. The couple has three children – two boys and a girl.

2011  Executive Committee – Seattle



National Engineers Week 2011

Asian
American
Engineer
of the Year



Dr. Meng-Sing Liou

Senior Technologist

NASA John H. Glenn Research Center

Dr. Liou is a Senior Technologist at NASA John H. Glenn Research Center (GRC) in Cleveland, OH, currently leading the development of multidisciplinary design, analysis and optimization capabilities to support NASA's missions.

Regarded as a leading researcher in computational fluid dynamics, Dr. Liou has developed several numerical methods that are widely cited and used by researchers and commercial codes worldwide, most notably the Advection Upstream Splitting Method, known as AUSM. He has authored over 200 technical papers and eight book chapters, and given numerous short courses and lectures.

He previously served as Chief of GRC's Computational Fluid Dynamics Branch; notable achievements as such include directing the development of a computer code for simulating three-dimensional chemical reacting flow to support the National Aerospace Plane Program and establishing the Center for Modeling Turbulence.

While serving as Chairman of Aeronautical Engineering Department of National Cheng Kung University in Taiwan, he proposed establishing the first national key Institute for Aeronautics and Astronautics and executed the initial phase of infrastructure construction, as well as recruiting faculty and students.

Dr. Liou is the recipient of several NASA awards recognizing his outstanding contributions to the Agency and nation including NASA's Exceptional Scientific Achievement Medal, NASA's Exceptional Achievement Medal and GRC's Abe Silverstein Medal. Dr. Liou is an Associate Fellow of the American Institute of Aeronautics and Astronautics and a Fellow of the Society of Shock Wave Research. He is an editor of two technical journals and serves on several scientific committees.

As Adjunct Professor, Dr. Liou has served currently and previously at Case Western Reserve University, University of California, Santa Barbara, and University of Waterloo (Canada); he was also a visiting faculty member of National Cheng Kung University, Tohoku University (Japan) and University of Michigan.

Dr. Liou has also served as President and Board Member of the Ohio Chinese Academic and Professional Association.

Dr. Liou received a Bachelor of Science degree (B.S) in Mechanical Engineering from National Cheng Kung University (Taiwan) and a Master of Science (M.S.) degree in Mechanical Engineering from National Taiwan University (Taiwan). Subsequently he earned M.S. and Ph.D degrees in Aerospace Engineering from The University of Michigan, Ann Arbor, MI



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Asian
American
Engineer
of the Year

Dr. Amy Lo

System Engineer

Northrop Grumman Corporation

Amy Lo is a System Engineer with the Integrated System Engineering Center, for Northrop Grumman Aerospace Systems. She mainly supports new mission studies for Civil System. She leads capture activities to develop new mission, and has developed mission concepts and proposals for astrophysical and planetary exploration missions. In addition, she is interested in technology development. One of her primary responsibilities is developing the New Worlds Observer mission concept, which uses a "Starshade" to occult nearby stars and enable the detection of Earth-like planets. She is the project manager, the technical lead, and oversees the system and mission engineering. Dr. Lo has supported a wide variety of other technology and mission concept development, including a large deployable Fresnel lens concept, she has supported several NASA Discovery-class mission proposals, and LCROSS follow-on missions.

Dr. Lo joined Northrop Grumman in 2005, and has since been involved in a variety of optical simulation projects involving large deployables. Her expertise includes mathematical simulations, mission architecture development, and system engineering. Dr. Lo is a section head with the System Performance department of the Integrated System Engineering Center. She is responsible for providing career guidance to her section members, performance evaluation, and keeping them up to date on organizational developments.

Dr. Lo earned her Bachelor's degree in Physics at Brown University in Providence, R.I., and her Ph. D. in Astrophysics from UCLA; her doctoral thesis was on the Cosmic Microwave Background. She is a member of the American Astronomical Society, the Institute of Electrical and Electronics Engineers, and the American Institute of Aeronautics and Astronautics. She recently became the Secretary for the AIAA Space Systems Technical Committee, and is active in the Awards and Educational subcommittees. She has more than 20 technical publications in the subjects of Astrophysics and Exoplanet Detection Technology.



National Engineers Week 2011

Asian
American
Engineer
of the Year



Guy Niizawa

Senior Manager
Lockheed Martin Aeronautics

Mr. Guy Niizawa is a Senior Manager of the RF Signature Integration group at Lockheed Martin Aeronautics, leading a team of 60+ engineers and scientists across three sites in California, Texas, and Georgia. He is a program manager of 3 contracted programs and advisor to programs across LM business sectors and Industry teams. Guy is a primary customer interface on RF signature programs, new business activities, and a member of a government/industry panel that shapes the future direction of RF technologies.

Mr. Niizawa received his B.S. in Physics from the University of California, Los Angeles, and his M.S. in Electrical Engineering from California State University, Northridge. In 1981, he began his career in aerospace at Rockwell International as a physicist. In 1985, he joined Lockheed Skunk Works in Burbank, California setting in motion the work that would gain him national recognition in signature design and testing on advanced low observable (LO) vehicle concepts.

During the 1990s, Guy held lead roles on Advanced Development Programs (ADP) and the F-22 fighter and Tier 3- programs. He directed advanced algorithm development in computational electromagnetics (CEM). From 1998 to 2004 he managed several classified contracted programs, and led the capture of numerous programs averaging a 90%+ win rate. The success of his R&D work and leadership in winning CRAD programs resulted in his 2004 appointment as department manager of the RF Signature Integration group and Senior Manager in 2009.

Mr. Niizawa is committed to mentoring and teaching junior engineers and scientists, and dedicated to ensuring technical integrity in all aspects of signature design and testing. He is the recipient of the LM Skunk Award, the LM Nova Award, the City of Palmdale Engineering award, and letters of commendation from two government customers.

Active in the Asian community, Guy is member of the San Fernando Japanese American Community Center, where he has been coaching basketball for the past 10 years, and past head commissioner of the Crescent Bay Optimist (CBO) Sports League.

Guy and his wife, Tracy, have four boys – Sean at UCLA, Jayson at UCSB, and twins Evan and Dustin in high school.



2011 AAEOY Executive Committee – Seattle

National Engineers Week 2011



Asian
American
Executive
of the Year

Anne Ostroff

Vice President

System Engineering, Integration & Test
Northrop Grumman Corporation

Anne Ostroff was born and raised in Taiwan with a younger sister and brother in a traditional Chinese family. Her parents taught her the importance of Ethics, Integrity and Respect for self and others among other traditional values.

At age 14, Anne and her family immigrated to United States, the Land of Opportunity, and settled in Los Angeles, California. Suddenly, the possibility for higher education became a reality and her future was forever changed. Anne received her Bachelor of Science Degree from UCLA in 3 years and a quarter. On graduation, she started her career in aerospace in 1983 at the Jet Propulsion Laboratory as an Orbit Determination Engineer.

Anne joined Northrop Grumman in 1984. Today, she is the Vice President of System Engineering, Integration and Test at Northrop Grumman Electronics Systems (NGES). Anne has executive responsibility for NGES' comprehensive discipline that aligns product architectures with acquisitions and investment strategies to optimize enterprise performance, customer satisfaction, and shareholder value.

Before joining NGES, Anne held a number of management positions in the Aerospace Systems sector. In 2005, after more than 20 years in technical and project management roles, Anne joined the Northrop Grumman Corporate office Human Resource organization as the Director of Change Management. In 2008, Anne was appointed Director, Rapid Response Space Systems, Advanced Concepts. She was responsible for the identification, shaping, pursuit and capture of the diverse portfolio of emerging systems to meet customers' needs in a budget constrained environment. Anne developed new business strategies and innovative solutions and successfully acquired new market area contracts for her organization.

Anne is grateful that she has been given, by Northrop Grumman Corporation, diverse opportunities to challenge and refine her leadership skills. She responded to these challenges with pride and results, and always looks to provide similar opportunities for others.



National Engineers Week 2011

Asian
American
Engineer
of the Year



Dr. Jinrong Qian
Sector Manager
Texas Instruments

Dr. Qian is a sector manager for battery charge management-advanced portable and served as a Distinguished Member of Technical Staff at Texas Instruments.

He is a pioneer in several power management technologies. Throughout his career, he has developed and co-developed state-of-art battery power management technologies that significantly improve power conversion efficiency, battery charging safety, fuel gauge accuracy and charging efficiency. His patented technologies as a co-inventor which extend the battery run-time, provide up to 99% fuel gauge accuracy, and high efficiency switching-mode battery chargers, have been widely used in the laptop computing and other battery power portable devices.

His original ideas, patents and publications in battery management and power conversion have led to, and stimulated, the battery management field. He has 24 awarded U.S. patents in power conversion and battery power management and five U.S. patent applications pending.

His dedication to educating battery management engineers at prestigious conference seminars and in a wide range of journals has been appreciated and recognized by the battery power management community. He is an internationally well-known technical leader and has been invited to be a session chair and present professional tutorials at numerous IEEE Applied Power Electronics conferences and Battery Power conferences. He was an associate editor of IEEE Transaction on Power Electronics. He also served as Technical Director, Green Energy and as a mediator for discussing how to transfer the technologies to grow business for the Chinese Institute of Engineers, USA. He was a leader and editor for TI portable power design seminar for providing power management seminars to over 4000 engineers in China, Taiwan, India, Korea and USA.

He has authored and co-authored 12 peer reviewed IEEE transaction articles in power conversion and 61 peer-reviewed contribution articles and conference papers in power management areas.

Dr. Qian received his B. S. and M.S. from Electrical Engineering of Zhejiang University, and Ph. D. degree from Virginia Tech.



2011 AAEOY Executive Committee – Seattle

National Engineers Week 2011



Asian
American
Executive
of the Year

Mahesh C. Reddy
Director & Program Manager
The Boeing Company

When reflecting on who had been his greatest inspiration, Mahesh Reddy can't help but think of his parents and the valuable lessons that they had instilled – the lessons that are the cornerstone of his executive leadership at The Boeing Company - even after 23 years. "My father gave me discipline, a sense of duty, and willingness to take risks," he said. "As a kid, my Dad would whack me on the head and say, 'Son, failures are stepping stones in life. I hope you have learned something. You will not repeat the same mistake.' His words always remind me that mistakes are opportunities for growth. My mother gave me patience, compassion and living life using the five human values of truth, right action, peace, love and non-violence. I have been blessed with numerous experiences, so that I may grow in wisdom through them."

These lessons and virtues have served him well. Currently the Director and Program Manager for the C-130 Avionics Modernization Program (AMP), a multi-billion dollar system design and development and production program, Reddy is responsible for meeting or exceeding both existing capabilities as well as current contract requirements for performance and safety as well as lowering the total ownership cost (TOC) for the C-130 fleet. Prior to this assignment, Reddy was responsible for executive leadership in managing the B-1 and B-2 Bomber Programs, two critical war fighter long range strike assets.

Despite his busy career, Reddy is a firm believer in giving back to the community and helping others in need. "My parents and spiritual teachers taught us that what really matters is how you live your life," he recalled. "And the most important idea to remember is: hands that serve are holier than lips that pray." Reddy is active in the Boeing Employee Community Fund (ECF) and is a sponsor for the Indo-American Culture Center (IACC). Reddy currently serves on the Board of Directors for the American Society of Engineers of Indian Origin (ASEI), an international nonprofit organization. But above it all, as dedicated as he is to his career and his community, Reddy is dedicated to his family who are his inspiration today, his wife Sumathi and their two children; Nikhita and Anish.



National Engineers Week 2011

Asian American
**Engineering
Leadership**
Award



Gaurang Shah

Vice President
Texas Instruments

Gaurang Shah is Vice President of TI's Audio and Imaging business unit. In this role he holds overall responsibility for the business unit's growth, financial matrix, strategy, operational and organizational efficiency.

Prior to leading this business unit, Gaurang led TI's Battery Management business unit for 5 years. Under his leadership, the battery business grew from \$170M in 2005 to over \$450M in 2010.

Before joining TI, he served as Segment Manager at Maxim Integrated Products in the Data converter group, driving business plan and strategy for Cable Infrastructure, Cellular Base station and Optical End equipments.

Prior to this he was Design Manager and Technical Lead in defining and designing over 15+ Mixed-Signal and Analog products for Maxim, Cypress and Sun Microsystems.

Gaurang has 5 patents in the field of Analog Circuit Design. He has acted as IC consultant at numerous Silicon-valley startups.

In addition to his current responsibilities at TI, he is actively involved in battery conferences and work groups.

Gaurang earned his BSEE from Michigan Technological University and MSEE from Cornell University.



2011  Executive Committee – Seattle

National Engineers Week 2011



Asian American
**Engineering
Leadership**
Award

Dr. Manu Sharma

Functional Manager
The Boeing Company

Born in a small town in northern India near New Delhi, Dr. Manu Sharma saw importance of education from an early age. "My parents went abroad to study when I was in elementary school," he recalled. "My mother eventually earned her doctorate in chemistry from the University of Stockholm, but I went to a boarding school for three years while they were getting established in Europe. They made huge sacrifices to improve their lives, so my sister and I knew we would pursue our educations. I chose engineering because I was constantly tinkering with mechanical stuff, with a strong curiosity for how things work."

Currently the functional manager for Flight Subsystems Engineering at S&IS, Sharma is responsible for people, process, and tools on all S&IS satellite programs as well as supporting the Flight and Control Directorate in developing and enforcing processes and standards for execution and growth. Additionally, he is responsible for providing management oversight for ACS and T&C related on-orbit anomalies and program engagement for High-Bay issues and test anomalies.

When asked how he chose his field, Sharma recalls when he found his calling. "I was always fascinated by airplanes," he said. "I wanted to know how they got up in the air and how they stayed there. Just the shape of them was amazing. Then one day during my undergraduate studies, I found myself in a controls lab watching a motor speed control experiment, and the spark was lit. I realized immediately that I wanted to work in this field."

In addition to his technical work, Sharma's management responsibilities include interfacing with customers and external team-members to establish program goals; lay out task schedules and budgets; and provide reports and presentations on technical progress. These responsibilities require interaction with a wide variety of collaborators such as program managers, university professors, and researchers at industrial and government.

Manu Sharma continues to innovate in the field of satellite controls, where his team leads the industry in cutting-edge technology. "I feel really fortunate to be involved in this work with this company," he said. "I look forward to the next challenges."



National Engineers Week 2011

Asian American
**Most Promising
Engineer**
of the Year



Carrie Shiu

Lead Configuration Design Engineer
The Boeing Company

Growing up next to the flight path of the Kai Tak Airport in Hong Kong, Wai-Kwan "Carrie" Shiu, was fascinated by airplanes. "Watching them land into the airport was a thrill," she said. "So I wanted to know why did they look so different from birds and what made them fly so gracefully."

Currently a Product Development Lead Configuration Design Engineer in Boeing Commercial Airplanes, Shiu leads a Airplane Level Integration Team (ALIT) for Product Development. Her responsibilities include implementing integrated development processes risk/issue/opportunity management, requirements management, and integrated change management to enable, facilitate and promote competitive or collaborative design concepts. On top of that, she is a technical leader for multi-discipline design teams to synthesize and create airplane configurations, system architectures, and structural concepts for cost effective and technologically advanced design. She is a Certified Project Management Professional (PMP) since 2005 and a Stanford Certified Project Manager since 2010.

However, before she could reach this success at Boeing, Shiu, at age 18, had to convince her parents to let her attend college at the University of Kansas for its well-regarded aerospace program. "I had to talk them into accepting that a girl could need a college degree, especially one that has no career potential in Hong Kong. At the University of Kansas, Shiu faced more than her share of obstacles. "I had very limited exposure to aviation. Most people had a much stronger background when we started. Everything was new to me, the material, the culture, the environment. And I was the only non-Caucasian woman out of a graduating class of 40." The first of her siblings to finish college, she felt fortunate to be able to pursue her education.

Shortly after graduating from college, Shiu immediately began working for The Boeing Company as an Aerodynamics Engineer for the 737NG conducting Flight Testing for FAA Certification. "I started designing airplanes," she said. "I am grateful to be one of those fortunate ones who can live out their dream." (Proverbs 9:10)



2011 AAEOY Executive Committee - Seattle

National Engineers Week 2011



Asian
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Executive
of the Year

Dr. Harry Shum

Corporate Vice President
Search Product Development
Microsoft Corporation

Harry Shum is the corporate vice president responsible for search product development at Microsoft Corp. Previously he oversaw the research activities at Microsoft Research Asia and the lab's collaborations with universities in the Asia Pacific region, and was responsible for the Internet Services Research Center, an applied research organization dedicated to long-term and short-term technology investments in search and advertising at Microsoft.

Shum joined Microsoft Research in 1996, as a researcher based in Redmond, Wash. He moved to Beijing as one of the founding members of Microsoft Research China (later renamed Microsoft Research Asia). There he began a nine-year tenure as a research manager, subsequently moving on to become assistant managing director, managing director of Microsoft Research Asia, Distinguished Engineer and corporate vice president.

Shum is an Institute of Electrical and Electronics Engineers Fellow and an Association for Computing Machinery Fellow for his contributions on computer vision and computer graphics. He has published more than 100 papers about computer vision, computer graphics, pattern recognition, statistical learning and robotics. He holds more than 50 U.S. patents.

Shum received a doctorate in robotics from the School of Computer Science at Carnegie Mellon University in Pittsburgh. In his spare time he enjoys playing basketball, rooting for the Pittsburgh Steelers and spending time with his family.

2011  Executive Committee – Seattle



National Engineers Week 2011

Asian American
**Most Promising
Engineer**
of the Year



Quoc Trieu

Network Engineer System Administrator
Lockheed Martin Corporation

Kim Trieu came to the US at the age of one as a refugee from Vietnam and has grown up and spent most of his life in Virginia. He attended James Madison University and holds a BS degree in Computer Science. He has dedicated most of his professional career in support of the intelligence community. Mr. Quoc Kim Trieu ("Kim") has demonstrated exceptional leadership within Lockheed Martin in his two-year tenure with the company. His superb skills and talents have been recognized by Lockheed Martin's government customer and have shaped the views of senior community leaders. In addition to performing his job he has volunteered his time assisting minority-owned businesses with their information technology needs, contributing to the security of their data and their customers.

He brings with him 8 years of intelligence experience and has provided his skills and talents to numerous US intelligence agencies such as the NGA, NRO, DNI, CIA and NSA. His drive and dedication for mission success has helped him become noticed by Lockheed leadership and he thrives in difficult assignments.

Since joining Lockheed IS&GS Security in 2008 he has taken on numerous assignments and stays motivated supporting Hanover, MD campus and his community. His enthusiasm for his work is infectious, and his impact on the community has been far reaching.

Kim has demonstrated to both the Lockheed Martin Chief Executive Officer and the Governor of Maryland results of research conducted by Lockheed Martin's Wireless Cyber Security Center. He has help lead the National Security Agency's highly successful Cyber Defense Exercise to train future military cyber defense leaders and was the primary technical liaison for cyber experiments and demonstrations spanning Lockheed Martin's Herndon Solution Center, Gaithersburg's NexGen Cyber Innovation Center, and Hanover's Wireless Cyber Security Center.

Not satisfied with only providing his skills and time to Lockheed Martin, Kim routinely donates his time to support small minority owned business in his neighborhood with technical expertise by advising, securing and building business IT networks. He also volunteers with charities and provides transportation for the disabled in his community. He looks towards the future with great anticipation and sees wonderful opportunities to support the engineering community



2011  Executive Committee - Seattle

National Engineers Week 2011



Asian
American
Engineer
of the Year

Dr. Jian-Juei Wang
Manager
The Boeing Company

For Jian-Juei (JJ) Wang, engineering just seemed liked the natural thing to do. "I was always good in the math and sciences," he said. "While I was in high school in Taiwan, I wasn't sure what I wanted to do, so I chose 'engineering' as my preference on my college entrance exam. In my graduate studies, I moved on to applied mechanics because it offered the challenge I was looking for. I was accepted into National Taiwan University and then received a scholarship to the University of Utah."

Wang is currently a manager of composite and field support for the C17 aircraft at Boeing. His group is responsible for the structural integrity of all C-17 airframe composite structures and for the structural repair support of fielded C-17 aircraft. Wang, considered one of the leaders in the field of composite engineering, shares his knowledge not only in the industry, but in academia as well. In 2007, he was appointed as part-time faculty by the Department of Mechanical and Aerospace Engineering at California State University Long Beach. He has taught courses in both graduate and undergraduate levels, such as Fracture Mechanics, Elasticity, and Strength of Materials.

Besides his focus on technical excellence, Wang has also been actively participating in Boeing's diversity program. In 2005, he was the president of the Boeing Asian American Professional Association (BAAPA) at Huntington Beach/Seal Beach. In 2007, Wang was instrumental in establishing the SoCal 6-steps Mentoring Program, and successfully planned, launched, and led the program.

Wang has been actively involved in community services and promoting the diversity within and outside Boeing. In 2009, he started organizing a Golden Tangerine Club at the Taipei Economic and Cultural Office in Santa Ana and planning monthly meetings for immigrants from Taiwan. Wang was a member of the committee which established the annual Star Search Event to promote diversity awareness at the Huntington Beach site. In 2000, he was a member of the steering committee under the Irvine Sister City Foundation, to promote cultural, civil, economic, and technical exchanges between Irvine and Taoyuan, Taiwan.



National Engineers Week 2011

Asian American
**Most Promising
Engineer**
of the Year



Dr. Ying Xia

Engineer

Naval Undersea Warfare Center

Dr. Ying Xia is an engineer for the Ranges, Engineering, and Analysis department at the Naval Undersea Warfare Center (NUWC) Division, Newport, a position he has held since January 2009. In this role, Dr. Xia is responsible for research and development on problems involving the tracking and localization of underwater sound sources on fixed acoustic sensor ranges scattered across the globe. Dr. Xia's primary focus is on developing and regulating the tracking and display software suite to improve accuracy and performance used in the range operation control centers. His drive allowed him to be the lead tracking subsystem engineer for the initial operational capability verification on a research project for a portable range using acoustic sensor buoys for experimental munitions testing.

More recently, Dr. Xia led a research and development effort funded by the NUWC Division Newport science and technology program to investigate a method to detect sensor gaps in an underwater acoustic range caused by the presence of countermeasures. This research led to the development of several new tools and processes which were integrated into the existing tracking system as well as a patent application.

Dr. Xia holds a Masters and Doctorate degree in Electrical and Computer Engineering from the Georgia Institute of Technology in Atlanta, Georgia. He also has a Bachelor degree in Computer Engineering from the University of Maryland at College Park.

In his spare time, Dr. Xia volunteers as a mentor for local teams in the First Lego League, an international program promoting science and technology in today's youth.



2011  Executive Committee – Seattle

National Engineers Week 2011



Asian
American
Engineer
of the Year

Dr. Pin Yang

Distinguished Member of the Technical Staff
Sandia National Laboratories

Dr. Pin Yang is a Distinguished Member of the Technical Staff at Sandia National Laboratories where he has worked since 1992 on different technical areas including ferroelectric power supply, inorganic scintillators, passive component integration, femtosecond laser processing and material interactions, nanocrystalline metals, electron beam joining of materials, plasma processing and photovoltaic, crystal growth and thermoelectric, and advanced material processing and characterization. Most of his work is core to Sandia's missions and has been recognized by many Sandia, DOE, and NNSA awards.

Dr. Yang has authored or co-authored well over 70 scientific papers including several "Best Paper" and "Best Presentation" awards, one U.S. patent, 10 technical advances, many invited lectures at major technical conferences and universities. He has had a long-term service as a research proposal reviewer for major government funding agencies, such as DOE, DOD and the National Science Foundation. Dr. Yang served as Adjunct Professor at the University of New Mexico, where he taught undergraduate Material Science course. He is also a technical referee for a list of national and international journals.

Dr. Yang has been an active member and church leader at the Albuquerque Chinese Baptist Church. He has led many church relocations and building renovation. Currently, he is the head of church Maintenance Committee. He also organized fund raising events for the disaster relief of earthquakes in Taiwan and in China. Dr. Yang regularly volunteers for Habitat for Humanity and the American Cancer Society.

Dr. Yang received his first B.E. in Chemical Engineering from Chung-Yuan Christian University in Taiwan. He earned his second B.S.E and M.S. in Materials Science and Engineering from the University of Michigan-Ann Arbor in 1985, and his Ph.D. degree in Ceramic Engineering from the University of Illinois at Urbana-Champaign in 1992.



National Engineers Week 2011

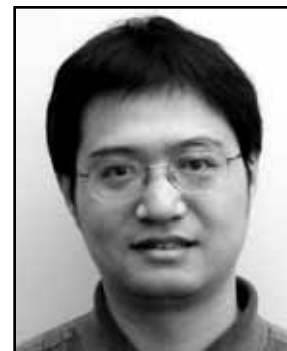
New Faces of Engineering 2011

Dr. Lingjia Liu

Senior Research Engineer

Samsung Electronics

Nominated by CIE-USA DFW Chapter



Dr. Lingjia Liu is a Senior Research Engineer working in the Dallas Telecommunication R&D Center of Samsung Electronics. He is currently working on the standardization of LTE-Advanced system, which has been regarded as the global candidate for 5G cellular standard.

Dr. Liu's achievements and outstanding contributions have led to international acknowledgement in the community:

- Dr. Liu is the author of significant scholarly articles in the most prestigious scholarly journals with international circulation in the field of telecommunication engineering – more than 10 journals and 30 conference papers.
- Dr. Liu is the recipient of the Global Samsung Best Paper Award which has a global award rate of 0.1%. He is the first author of more than 10 US patents.
- Dr. Liu shows great leadership and helps boost the image of the Chinese Institute of Engineers (CIE) – USA /DFW Chapter (Dallas Fort-Worth Chapter) among students and young professionals. More than 50 new members are attracted to the organization due to his efforts. He is the organizer and the host of the telecommunication symposium which benefits lots of engineers in DFW area.

Alex Chao

Technical Specialist

The Boeing Company

Nominated by CIE-USA Seattle Chapter &
Boeing VP Dr. Dianne Chong



Chao is a Project Engineer with 787 Major Projects and Technology since November 2010. He joined The Boeing Company in 2005 as a Materials and Process Engineer for Chemical Technology. In that role, he led several technology development projects for coatings and finishes. In Spring of 2010, he helped provide on-site material & process production support at Fuji Heavy Industries in Nagoya, Japan for the 787 Program. Chao also served as leader for the Boeing Enterprise Coatings Natural Work Group responsible for enhancing coatings technology knowledge and information sharing across company stakeholders.

In addition to the extensive work performed for Boeing Commercial Airplanes, Chao has also supported multiple Boeing Defense, Space & Security projects including the C-17, Delta II, and Delta IV.

Chao has a BS degree in Materials Engineering from UCLA and a MS degree in Aerospace Engineering from USC



National Engineers Week 2011

AAEOY Exhibition/Job Fair

Proudly Sponsored by IBM

The objectives of the Exhibition/Job Fair are to create values for our 2011 AAEOY sponsoring companies and to promote Science, Technology, Engineering and Math (STEM) in our communities.

Fair Venue

Location: Hilton Seattle Airport & Conference Center

Date/Time: February 26, 2011, 10:00 am to 3:00 pm

Job Fair Rooms: Crystal Ball rooms A & B

Presentation Rooms: Orcas A & B

Participating Companies

- IBM
- Boeing
- Lockheed Martin
- Northrop Grumman
- Microsoft
- Texas Instruments
- United States Navy
- NASA – Glenn Research Laboratory
- NASA – Johnson Space Center
- Sandia National Laboratory
- Amazon
- T-Mobile
- University of Washington – Bothell Campus



National Engineers Week 2011

Career and Engineering Leadership Conference

Proudly sponsored by Lockheed Martin

Session 1: Program Management and Leadership Attributes

Speaker: **Dr. Dianne Chong, Ph.D.** Vice President – Engineering, Operations & Technology, The Boeing Company

Abstract: This session will deal with the application of some of the program management best practices and how these are used to provide effective execution. Leadership Attributes will also be discussed. Their application to successful projects will be discussed.

Session 2: Become Visible: Let Your Voice Be Heard

Speaker: **J.D Hokoyama**, President and CEO; Leadership Education for Asian Pacifics, Inc (LEAP)

Abstract: One of the key factors in transitioning from an individual contributor to a leader is the ability to be seen as a potential leader. This brief presentation will discuss perceptions that keep Asian Pacific Islanders (API) from being promoted into leadership positions especially at the senior level. The presentation will also offer ways to dispel these negative perceptions that imply that APIs while hard workers and great individual contributors are really not suited to be in leadership positions.

Session 3: Moving from Expert to Trusted Advisor

Speaker: **Norm Judah**, Chief Technology Officer, Worldwide Services, Microsoft

Abstract: Are you ready to compete in a world where success is measured by the business impact of your ideas and advice? Microsoft Services Chief Technology Officer Norm Judah define Technical Leadership and share perspectives on the journey that engineers must take from simply being experts to becoming trusted advisors to managers, business leaders, and customers. Learn how to build the right skills and use them to increase your personal value and influence.

Session 4: Panel Discussion - Career Turning Points & Learning

Panelists: **J.D. Hokoyama** President and CEO, LEAP

Manny Zululeta VP, Lockheed Martin

Dianne Chong VP, Boeing

Chee Chew Director of Engineering, Google



National Engineers Week 2011

Technical Conference I

Aviation:

Lessons from the Past, Visions for the Future

Session 1: Airplane Design for the Environment

Speaker: **David Akiyama**, ecoDemonstrator Program Manager, The Boeing Company

Abstract: Aviation is one of the fastest advancing technology sectors in human history. Since the beginning of the jet age nearly 40 years ago, technology has advanced the industry to achieve incredible reductions in the environmental impact of airplanes. These advancements in technology have resulted in a 70% in CO₂ and a 90% reduction in the noise footprint area when compared original commercial jets. However, with a projected growth in passenger and cargo growth of 5% a year, Boeing will continue to introduce environmentally progressive technologies to respond to the environmental requirements of the future.

Session 2: Safety Principles Derived from Aviation Accidents

Speaker: **Carrie Shiu**, Configuration Design Engineer, The Boeing Company

Abstract: Through rain and shine, airplanes carry millions of people every day over every kind of challenging terrains around the world. To ensure airplanes are as safe as possible have become the ultimate goal for the aviation industry. This presentation will take us back in time to some of the deadliest airplane accidents and examine the root causes and the hard-earned lessons. From there we will see how the industry implements these design principles into modern day commercial airplanes to enhance the safety of the passengers.

Session 3: Air Traffic management – Current and Future Trends

Speaker: **William R Richards**, Technical Fellow – Air Traffic Management

Abstract: This presentation will provide an overview of current constraints to capacity and efficiency of global air traffic operations, highlight the anticipated traffic growth in the next 20 years, and discuss methods and enhancements which support growth in air traffic demand. Enhancements to be discussed include future communications, navigation, surveillance technologies in tomorrow's airplanes and automated air traffic control capabilities on the ground.

Session 4: Onboard Wireless Networks and Global Connectivity Trends

Speaker: **Dr. Sudhakar Shetty**, Senior Technical Fellow, The Boeing Company

Abstract: This presentation will provide an overview of status of cell phone usage and internet connectivity on the aircraft, the lessons learned over the years and the future plans to enable this worldwide. It will also explore the various off board connectivity solutions, their benefits and limitations. This will show how Boeing is working on extending the passenger connectivity from office and home to an aircraft environment to provide a seamless experience.

National Engineers Week 2011

Technical Conference II

Enabling changes through great software

Session 1: Be~Zen~Do (Balancing Being & Doing)

Speaker: **Manu Puri**, Curriculum Manager, Microsoft

Abstract: To be effective at the business of life (including work) we must follow what I call the Be/Do Modality. We are called human beings not human doings; yet we spend most of our time doing and very little time on reflection and strategy. Without time to reflect we're either not sure where we're headed or we're not very fulfilled at what we currently undertake. Often we experience both. This session shares with you strategies and techniques around these 2 areas of life that must be balanced.

Session 2: Microsoft Kinect Sensing Technology and its Applications

Speaker: **Zhengyou Zhang, Ph.D.** Principle Researcher, Microsoft

Abstract: Microsoft Kinect allows Xbox 360 to directly sense the 3rd dimension (depth) of the players and the environment, and revolutionizes the experience how a player interacts with the games ("you are the controller"). However, its impact is way beyond the gaming industry. With its readily availability and low cost, many researchers and practitioners in computer science, electronic engineering and robotics are leveraging the sensing technology to develop new ways of interacting with machines. Natural user interaction is around the corner. In this talk, I will describe the principles behind the Kinect sensing technology and some of its applications including person tracking, avatar animation and action recognition.

Session 3: The Long and Winding Road

Speaker: **Van Lanning**, Principle Group Program Manager, Microsoft

Abstract: Explore customer-focused innovation as the speaker considers the ever-changing hardware and software landscape and the rapid progression of technology. The path from scientific laboratories, office buildings, garages, and basements to common fixtures of our everyday life continues to alter our existence. How will the next generation of creative technologists meet the ever-growing demand for more simplistically elegant solutions?

Session 4: Empower People with Intent-Knowledge Matching Services

Speaker: **Xuedong Huang, Ph.D.**, Partner Architect, Microsoft

Abstract: Understanding user intent plays a very important role in web search – one of the most important web services today. Moving forward, search will evolve to be far more effective to empower people with knowledge. There are many lessons to be learned in developing intent-knowledge matching services for the mass market. I will discuss some exciting opportunities and challenges on refining technologies that can help to understand users' intent and empower them with knowledge.



National Engineers Week 2011

Technical Conference III

Life Science and Bioengineering

Session 1: Ubiquitous Ultrasound Imaging and System Development

Speaker: Juin-Jet Hwang, Ph.D., Chief Technology Officer, SonoSite

Abstract: Imaging systems of small size and light weight are advantageous for use in a variety of diagnostic applications. They allow high quality ultrasound imaging to be conveniently brought to areas that are not easily accessible to medical imaging such as a patient's bedside and areas of natural disaster. Since 1998, several hand-carried and hand held imaging systems have been developed on a mixture of different microelectronic and system technologies. As technologies continuously advance, more imaging functions will be integrated on chips, or same function can be implemented using small areas of silicon. In this talk, the application of ultrasound imaging, the system development history, and recent advances of portable ultrasound are reviewed. System architecture and implementation technologies of portable ultrasound imaging system will also be presented.

Session 2: Therapeutic Ultrasound

Speaker: Larry Crum, Ph.D., Principal Physicist and Research Professor, University of Washington

Abstract: Ultrasound has expanded beyond the imaging realm, with methods and applications extending to novel therapeutic and surgical uses. These applications broadly include: tissue ablation, acoustocautery, lipoplasty, site-specific and ultrasound mediated drug activity, extracorporeal lithotripsy, gene therapy and the enhancement of natural physiological functions such as wound healing and tissue regeneration. A particularly attractive aspect of this technology is that diagnostic and therapeutic systems can be integrated to produce totally non-invasive, image-guided therapy. This lecture will review these exciting new applications of ultrasound and address some of the basic scientific questions and future challenges in developing these methods and technologies, particularly the use of High Intensity Focused Ultrasound (HIFU) in the treatment of benign and malignant tumors, especially in organs which are difficult to treat using conventional medical and surgical procedures.

Session 3: Biopreservation and Artificial Organs: Facing the Challenge of the Medical Transplantation

Speaker: Dayong Gao, Ph.D., Professor, University of Washington

Abstract: The lack of biomaterial donors limits the medical transplantation as the key treatment for some life-threatening diseases. Cryopreservation of living biomaterials including engineered tissues and development of artificial organs are two of the most effective approaches to address the problem of the shortage of the biomaterial supply for transplantation. However, the biomaterials can be damaged by the cryopreservation process itself. The challenge to cells during freezing is the lethality of an intermediate zone of temperature (-15 to -60 C) that a cell must traverse twice - once during cooling and once during warming. This presentation is focusing on: (1) mechanisms of the cryoinjury and cryopreservation; (2) design and optimization of cryopreservation conditions; (3) development of novel technology to achieve the optimal cryopreservation conditions to ensure the cryosurvival of cells/tissues; and (4) ongoing research in development of novel artificial organs.

National Engineers Week 2011

Asian American Engineer of the Year Award



2010 AAEYO Award banquet keynote Speaker John Tracy from the Boeing Company



2010 AAEYO Panel session: Leadership training



National Engineers Week 2011

Asian American Engineer of the Year Award



2010 AAEOY awardees and corporate representatives group picture during the VIP event



2010 AAEOY award general reception and networking for the banquet guests

National Engineers Week 2011



EWEEK – National Future City Competition

The National Engineers Week (EWEEK) Future City (FC) Competition is the only engineering program of its kind for 7th and 8th graders and their teachers. Future City students design and build creative, hand-on solutions to real-world issues in urban, rural and suburban communities. Students and educators team with engineer-mentors to create computer and large 3-D models. They are able to compete in regional and national contests.



CIE-USA is the sponsor of the Best Residential Zone Award. The winner is Luna Lluvea City from Cocopah Middle School, Scottsdale, Arizona. Left to right: Eric Peshkin, Kerry Wilcoxon (mentor), Joseph Horowitz, Janice Speisman (teacher), Benjamin Steen, Dr. Jun-Min Liu (Chair of 2009-2010 CIE-USA).



2010 Future City National Finals from Illinois (Chicago) region-team members demonstrate their 3-D model.



2011  Executive Committee – Seattle

National Engineers Week 2011

2012 AAEOY Invitation

Albuquerque



New Mexico



Asian American Engineer of the Year Award 2012

Saturday, March 3, 2012 Hosted by CIE / USA - New Mexico
Please contact: 2012 AAEOY at aaeoy2012@gmail.com

2010 CIE/USA – Seattle Math Comp & Science Fun

To promote interests of Asian Pacific American (APA) youth in the fields of science, engineering and technology, this event was held on the October 24, 2010 at Lake Sammamish high school for over 200 3rd graders to the 10 graders.



Math Competition Winners



Science Fun project at the heat of contest

2011  Executive Committee – Seattle



National Engineers Week 2011

Acknowledgement

2011 AAEOY Executive Committee – Seattle would like to express its sincere appreciations to the following companies and community organizations for their sponsorships, commitments or supports in making this year's AAEOY a successful one.

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National Engineers Week 2011

About CIE-USA

Chinese Institute of Engineers –USA is a professional non-profit and non-political organization founded in 1917 in New York by a group of talented and forward looking Chinese engineers who graduated from American college and worked in the American railroad and other industries. On July 15, 1953, the United States chapter was reinstated as the independent entity known as CIE-USA and its activities engaged members from all parts of the United States.

Chinese American engineers in the United States have played a significant role in the growth of science and technology throughout the United States. In order to coordinate the engineering and professional activities and organizations in the major metropolitan regions of the US, the National Council of CIE-USA was formed on November, 1986. The Council consists 6 chapters and they are New York chapter, San Francisco Bay area chapter, Seattle Chapter, Dallas chapter, New Mexico chapter and OCEESA (Overseas Chinese Environment Engineers and Scientists Association). More information is available at <http://www.cie-usa.org> website.

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National Engineers Week 2011

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The men and women of Lockheed Martin are proud to congratulate the winners of this year's Asian American Engineer of the Year awards: Guy Niizawa, Engineer of the Year; Yung A. Le, Executive of the Year; Sang Lee, Leadership; and Quoc Trieu, Most Promising Engineer. Their work and their accomplishments inspire us all.

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