



Engineers Week 2010

Asian American Engineer of the Year Award

February 27, 2010, Hyatt Regency, New Brunswick, NJ

Chinese Institute of Engineers-USA
www.cie-usa.org



2010 National Engineers Week



Jun-Min Liu, Ph.D. *CIE-USA Chairman and AAEOY Award Ceremony Chairperson*



On behalf of the Chinese Institute of Engineers-USA, Greater New York Chapter (CIE-USA/GNYC) 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 2010 AAEOY (Asian American Engineer Of the Year) award ceremony is the ninth AAEOY since it was introduced in 2002.

President George Washington has been considered as America's first engineer. Therefore, the week of Washington's birthday (February 22) is designated as Engineers Week (EWeek). CIE-USA joins National Engineers Week Foundation to celebrate EWeek featured events and honor their achievements. One of the critical featured events is to create a platform to recognize outstanding Asian American Engineers in corporate or academic environments. This event has resulted in great impacts.

CIE-USA is a member of EWeek Foundation board and Diversity council. CIE-USA provides supports to many 2010 EWeek (Engineering Week) activities such as Global Marathon For, By and About Women in Engineering, Future City program, Science and Engineering Festival, and National Lab day. The "Best Resident Zone" award, a special award of Future City program, was solely sponsored by CIE-USA.

"More award categories for AAEOY" was suggested by 2008 AAEOY Advisory Council led by Manny Zulueta. In 2010 AAEOY awards, we have three award categories for different qualifications and requirements. They are Asian American Executive of The Year Award, Asian American Engineer of The Year Award and Asian American Most Promising Engineer of The Year Award.

The identification, assessment and selection of 2010 laureates were arduous tasks. We have received many outstanding nominees. 2010 AAEOY Award Committee has worked hard, with the recommendations from corporations, to select a group of high-achievement AAEOY award recipients. They are truly outstanding and are the role models not only for the Asian American engineering communities, but also for engineering community in general. At this occasion, we also have the pleasure to honor three world-renown scientists and engineers with two special awards: Distinguished Science & Technology award to Dr. Charles Kuen Kao, a 2009 Nobel Laureate in physics, and to Dr. Sing-Tung Yau of Harvard University, 1982 Fields Metal award recipient, and Distinguished Lifetime Achievement Award to Dr. Arun Netravali, a recipient of 2002 US National Technology award.

I would like to give my special thanks to all members of 2010 AAEOY planning committee for their dedication and relentless hard work to set up the foundation for a vast success.

In closing, again I would like to congratulate tonight's award recipients for their truly outstanding achievements and extraordinary services. I also would like to thank our sponsors: Boeing, IBM, Northrop Grumman, Lockheed Martin, Microsoft, NASA, Johnson & Johnson, Navy, Sandia National Labs, Texas Instruments., AT&T, BP, Comcast and Genentech for their strong support in this very difficult economic environment.

Thank you and enjoy the evening!



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National Engineers Week 2010



Allen C. Chen, Ph.D.
2010 AAEOY Award Banquet Committee

Award Banquet Chair's Remarks

CIE-USA/Greater New York Chapter (CIE-USA/GNYC) has the great honor to host the 2010 Asian American Engineer of the Year (AAEOY) Award Banquet Program at Hyatt Regency in New Brunswick, New Jersey during the 2010 National Engineers Week. It gives this Chapter another opportunity to organize this important event to recognize the distinguished Asian American engineers who have been selected from the entire nation and have a chance to interact with many American Corporate Executives, industrial leaders, government officers, senators, congressmen and educational institutions.

The AAEOY 2010 Planning Committee consisting of many volunteers from members and friends of this Chapter kicked off its planning activities about a year ago. The activities included seeking for corporate sponsorships and local supports, nomination of the award recipients, review of the nominees' achievements and credentials, conference site selection, design of web pages and the on-line registration process, publicity, hotel reservation, design of the Proceedings, banquet facility, logistic arrangements, receptions, corporate visits, day time programs rehearsals, interactions with CIE-USA Sister Chapters, planning of the entire Award Banquet Program and holding of many planning and coordination meetings and conference calls. I would like to thank them all for their efforts.

I would like to express my sincere gratitude to Sister Chapters including CIE-USA/Dallas-Fort Worth Chapter, San Francisco Chapter, and Seattle Chapter for sharing of their experiences in organizing the AAEOY Award Banquet events in the past years that has made our planning work a lot easier. I would also like to congratulate all the award recipients for their outstanding professional achievements. Their achievements in science, engineering and technology have significantly contributed to our nation that will make the future of our nation better and brighter.



Chinese Institute of Engineers-USA
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2010 National Engineers Week



David Wu

*Chair of the House Subcommittee
on Technology and Innovation
Member of Congress*

Congressman's Remarks

Congressman David Wu (D-OR) was sworn in to a fourth term as a Member of the 109th Congress on January 3, 2005. Congressman Wu represents Oregon's First Congressional District, which stretches from Portland to the Oregon Coast, encompassing all of Washington, Yamhill, Columbia, and Clatsop counties, and part of Multnomah County.

Congressman Wu's priorities include: improving our nation's public education system and making college more affordable; growing Oregon's economy by encouraging new business investment and supporting high tech research; improving our nation's healthcare system by fighting for patients' rights and a Medicare prescription drug benefit; and meeting our obligation to future generations by preserving Social Security and protecting our natural environment.

In the House of Representatives, Congressman Wu serves on the Education and the Workforce Committee, which has sole jurisdiction over education policy. Congressman Wu also serves on the Science Committee, which has jurisdiction over research and technology policy and NASA. He is the Ranking Member on the Environment, Technology and Standards Subcommittee.

Congressman David Wu has lived the American dream. In October of 1961, at six years of age, he moved with his family to the United States after President John F. Kennedy signed an executive order updating unfair immigration quotas. He was educated in public schools, earned a Bachelor of Science from Stanford University in 1977, attended Harvard Medical School, and received a law degree from Yale University in 1982.

Congressman Wu's distinguished legal career included a clerkship with a Federal judge in Portland. In 1988, he co-founded the law firm of Cohen & Wu. For a decade, the firm successfully served the high technology industry and numerous small businesses across Northwest Oregon.

Congressman Wu counts among his proudest accomplishments his work to help build scores of new businesses that have thrived and provided well-paying jobs for Oregonians. His fifteen years of experience in the Portland business and high technology communities make him uniquely qualified to represent the "Silicon Forest" district in Congress.

Congressman Wu is the first and only Chinese-American to serve in the U.S. House of Representatives. He currently is a member of the Executive Board for the Congressional Asian Pacific American Caucus and served as Chair from January 2001 to January 2004. Congressman Wu is also a member of the New Democrat Coalition (NDC), a group of moderate Democrats in the House.

Congressman Wu and his wife Michelle have two children: a eight-year-old son named Matthew and a six-year-old daughter named



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National Engineers Week 2010



Award Banquet Keynote Speaker

Dr. John J. Tracy

Boeing Chief Technology Officer and

Senior Vice President

Engineering, Operations & Technology

In his current position, John Tracy oversees the development and implementation of the enterprise technology investment strategy and provides strategic direction to several functions, business organizations and initiatives involving more than 100,000 employees.

Tracy reports to Boeing Chairman, President and CEO Jim McNerney, and his responsibilities include (1) the Engineering, Operations, and Supplier Management functions, (2) the Information Technology, Enterprise Technology Strategy, Boeing Research and Technology, Boeing Test & Evaluation, Intellectual Property Management, and Environment, Health and Safety organizations, and (3) the Boeing Development Process Excellence initiative.

Prior to his current position, Tracy was vice president of Engineering & Mission Assurance for Boeing's Integrated Defense Systems business, responsible for all of Engineering's processes, tools, and a 32,000-person team. Tracy joined Boeing as a stress analyst in 1981 and held a variety of positions in engineering and research. Prior to Boeing, he served as a high school science and math teacher in Los Angeles.

Tracy earned his PhD in Engineering from the University of California - Irvine, and has a Master's and Bachelor's in Physics from California State University at Los Angeles and Dominguez Hills, respectively. In addition to being a Fellow of the American Society of Mechanical Engineers, the American Institute of Aeronautics and Astronautics, and the Royal Aeronautical Society, he has authored over 30 publications in the areas of aerospace structures and materials.



Chinese Institute of Engineers-USA

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2010 National Engineers Week



**Engineers Week 2010
Asian American Engineer Of The Year Award Banquet
Hosted By CIE-USA**

PROGRAM

Morning and Afternoon Program

9:30-11:00 am	Make a Difference through an Engineering Career	Dr. Paul Lin
12:30-2:00 pm	Reaching Out for the American Dream	Dr. David Chai
2:15-3:30 pm	AAEOY Networking and Action	Mr. Manny Zulueta
1:00-3:30 pm	Intern and Employment Opportunities for Engineers	Dr. Shu-Ping Chang
12:30-5:30 pm	Leadership Training (Provided by LEAP Inc.)	Dr. Howard Chen

Evening Program

4:00-5:45 pm	VIP Reception	Dr. Wen Lin
6:15 pm	Seating/Dinner	
6:20 pm	MC's Welcom	Ms. My Luu
6:25 pm	National Anthem	Ms. Laura Carey
6:35 pm	Award Ceremony Opening Remark	Dr. Jun-Min Liu
6:40 pm	Congratulats Letters	
6:50 pm	Introduce VIP Guests	Dr. Jun-Min Liu
6:55 pm	Technology & Innovation	Mr. David Wu
7:00 pm	Dinner	
7:40 pm	Keynote Speech	Dr. John Tracy
7:55 pm	Award Presentation - Part I	
8:25 pm	Distinguished Science & Technology Award <i>Dr. Shing Tung Yau</i>	Dr. Deane Yang
8:35 pm	Award Presentation - Part II	
9:10 pm	Distinguished Lifetime Achievement Award <i>Dr. Arun Netravali</i>	Mr. Don Hirsch
9:20 pm	Award Presentation - Part III	
9:55 pm	Distinguished Science & Technology Award <i>Dr. Charles Kao</i>	Dr. Tsong-Ho Wu
10:05 pm	Closing Remark	Dr. Allen Chen
10:10 pm	Thanks for AAEOY 2009 Organizers	Dr. Jun-Min Liu
10:15 pm	AAEOY 2011 Announcement	



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National Engineers Week 2010

Letter from **PRESIDENT** **Barack Obama**



THE WHITE HOUSE
WASHINGTON

February 12, 2010

I send greetings to all those observing National Engineers Week 2010 and celebrating the 20th anniversary of the *DiscoverE* campaign.

Never has it been more important for America's youth to consider careers in science, technology, engineering, and math. The lessons they learn through initiatives like National Engineers Week will help them drive our economy as tomorrow's entrepreneurs, researchers, and innovators, and guide our Nation as educators, policymakers, and parents. By helping our students discover the wonder and excitement of engineering, we instill in them a love of learning and expand their curiosity and creativity, which are at the heart of innovation.

Together, we can give our children the tools they will need to build a brighter future. Thank you for your dedication, and I wish you all the best in the years ahead.

A handwritten signature of Barack Obama, written in black ink, is located below the letter's body text.



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2010 National Engineers Week



Senate's Resolution In Support of National Engineers Week

A bipartisan group of Senators on Thursday introduced a resolution supporting National Engineers Week, Feb. 14-20, 2010. The resolution, introduced by Senators Ted Kaufman (D-DE), Susan Collins (R-ME), Kirsten Gillibrand (D-NY) and Jeff Bingaman (D-NM), supports the goals and ideals of National Engineers Week to increase understanding of and interest in engineering careers among K-12 students across the country. Congressman Daniel Lipinski (D-IL), who for many years has introduced this resolution in the House of Representatives, will do so again following the President's Day recess.

"National Engineers Week is an important reminder of the significant contributions engineers have made in our society," said Senator Kaufman. "It's engineers who will continue to address the major technological and infrastructure challenges of our time – from providing clean water to defending the Nation to developing green energy technologies needed to power the American people into the future."

"During these tough economic times, we need to continue investing in education to prepare our students for the new green economy," said Senator Gillibrand. "National Engineers Week will highlight the importance math, science and innovation will play for the jobs of the future. No other state is poised to lead in the high-tech economy of the future like New York. Our state is home to the universities, businesses, laboratories, researchers and the bright minds we need for long-term economic strength."

"Whether it is increasing the fuel efficiency of the cars we drive, designing the latest generation of ultra-fast computer chips, developing better ways to protect our troops, or improving American manufacturing, engineers play a tremendously important role in today's world," Congressman Lipinski said. "And in the 21st Century, their importance will only increase, as we work to reduce our dependence on fossil fuels and respond to increasingly stiff competition from highly skilled workers abroad. In order to meet these challenges, we need to reach out to the youth of today and get them excited about science, technology, engineering, and math."

Each year, National Engineers Week brings 50,000 engineer volunteers into K-12 classrooms across the country in hopes of inspiring the next generation of engineers by helping pre-college students understand opportunities available in the field, as well as provide them with role models.

National Engineers Week is made possible by a coalition of more than 100 professional societies, major corporations and government agencies dedicated to ensuring a diverse and well-educated engineering workforce, promoting literacy in STEM fields and raising public awareness and appreciation of the contribution of engineers to society.



Chinese Institute of Engineers-USA
www.cie-usa.org





National Engineers Week 2010

Letter from **SECRETARY** **Gary Locke**



THE SECRETARY OF COMMERCE
Washington, D.C. 20230

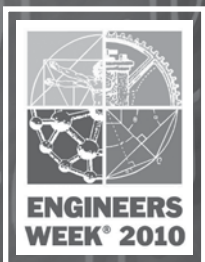
On behalf of the Obama Administration and the U.S. Department of Commerce, I would like to extend congratulations to the Chinese Institute of Engineers-USA (CIE-USA) on its 2010 Asian American Engineers of the Year Award Banquet.

This is the ninth consecutive year that the CIE-USA has recognized the professional and personal accomplishments of the Nation's outstanding Asian-American engineers and scientists. Your effort to honor these individuals is commendable.

The strength of our Nation comes from our diversity of people, cultures, and religions. With this strength, America has an unparalleled spirit that drives us to succeed. The Department of Commerce is committed to supporting the continued development and achievements of the Nation's engineers and scientists.

I wish your organization many years of continued success and prosperity, and best wishes for a productive event.

A handwritten signature of Gary Locke in dark ink.
Gary Locke



Chinese Institute of Engineers-USA
www.cie-usa.org

2010 National Engineers Week



Letter from NJ GOVERNOR Chris Christie



STATE OF NEW JERSEY
OFFICE OF THE GOVERNOR
P.O. BOX 001
TRENTON
08625
(609) 292-6000

CHRIS CHRISTIE
GOVERNOR

February 27, 2010

To: The Chinese Institute of Engineers-USA

Dear Friends:

I am pleased to extend greetings to the members of the Chinese Institute of Engineers-USA and everyone gathered for the 2010 Asian American Engineer of the Year Award Program.

The leadership, service and fellowship provided by organizations such as yours are important parts of New Jersey's economy. This event serves as an opportunity to honor the outstanding contributions that Asian Americans have made in the fields of engineering, science, technology and business. I recognize everyone in attendance for their commitment to innovation.

Best wishes for an enjoyable and successful event.

Sincerely,

A handwritten signature of Chris Christie is shown above his name and title.

Chris Christie
Governor



Chinese Institute of Engineers-USA
www.cie-usa.org





National Engineers Week 2010

Letter from CONGRESSMAN Steve Austria



United States House of Representatives



A Proclamation Recognizing the The Chinese Institute of Engineers

On behalf of the people of Ohio's Seventh Congressional District, I would like to send my warmest wishes to all the associates and friends of the Chinese Institute of Engineers on the occasion of your 2010 Asian American Engineer of the Year Award Banquet.

This is the ninth consecutive year that the CIE has hosted this wonderful event. Presenting this recognition is important in emphasizing the professional and personal achievements of some of the best engineers in America. In the past, you have honored many deserving individuals and the 2010 honoree will have rightfully earned this prestigious award and recognition.

Asian American engineers are among the numerous unsung heroes of our country's society. These individuals are role models that all Americans should try to follow.

The people of Ohio's Seventh Congressional District and I extend our best wishes for your ongoing success.



Signed on this day, the 27th of February 2010.


STEVE AUSTRIA
Member of Congress



Chinese Institute of Engineers-USA
www.cie-usa.org

2010 National Engineers Week



Letter from CONGRESSMAN Anh "Joseph" Cao

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SUBCOMMITTEE ON VULNERABILITY, INVESTIGATION,
AND RESPONSE (H.R. 1000-2)

COMMITTEE ON TRANSPORTATION AND INFRASTRUCTURE

SUBCOMMITTEE ON ECONOMIC DEVELOPMENT, PUBLIC
BUILDINGS, AND EMERGENCY MANAGEMENT

SUBCOMMITTEE ON AVIATION, RAILROADS, AND
WATERWAYS

SUBCOMMITTEE ON HIGHWAYS, BRIDGES, AND
TRANSPORTATION



Congress of the United States
House of Representatives
Washington, DC 20515-1502

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2ND DISTRICT (CA) (SANA)

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WEBSITE: josephcao.house.gov

February 27, 2010

Congratulations to this year's recipients of the Asian American Engineers of the Year Award. Today, we honor and acknowledge your successes in the fields of science and technology. Your continuing progress and dedication leads as examples for Asian Americans as well as for engineers.

I want to take this moment to encourage you this evening to continue the work you are doing to advance the success of Asians across the country and around the world. You are the pillars of the Asian-American community, and you embody the traditional Asian cultural emphasis on intellect, innovation and hard work.

Leaders are born when people are forced to step outside their comfort zone. You have taken risks. From the list of previous recipients of this award, it is evident that your work has impact in our community, your field, and the world. You are being recognized for your bold achievements and contributions to the academic, public service, and corporate world.

As role models, your mission is to enlighten and nurture the minds of future leaders. You embody the traditional Asian cultural emphasis on intellect, innovation and hard work. Many of you, like me, know what it's like to achieve great success. Together, we as Asian-Americans can create the next generation of problem solvers who will bring positive changes to our communities here in the United States.

Today we are at a place where new groups are coming and bringing with them new ideas, new cultures and making new contributions in science, medicine and labor. We need innovative, creative people that will be devoted to serving the people, on a solutions-oriented basis. Our aspiration is to develop real solutions to help others who are experiencing great life challenges.

This entrepreneurial spirit speaks to the unique heart of our culture, and it resembles the very fiber of the American spirit. I encourage you to continue to make a difference. Continue to care, help, and invest in those around you. Together, we can build communities of excellence.

With warmest regards,

Anh "Joseph" Cao
Member of Congress



Chinese Institute of Engineers-USA
www.cie-usa.org





National Engineers Week 2010

Letter from UNITED STATES SENATOR Kirsten E. Gillibrand



KIRSTEN E. GILLIBRAND
NEW YORK



UNITED STATES SENATOR

February 27, 2010

Dear Friends,

I would like to send greetings to each of you attending the 2010 Asian American Engineer of the Year Award Ceremony hosted by the Chinese Institute of Engineers-USA (CIE-USA). I am especially pleased to join my voice with yours in honoring Dr. Charles Kuen Kao, Dr. Arun Netravali, and Dr. Shin-Tung Yau for their outstanding contributions to the field of Sciences and Engineering.

As one of the most prestigious engineering societies in the country, the CIE-USA has played an important role in the efforts of scientists to create new discoveries, and to increase our understanding of the world in which we live. I thank you for your contributions to the professional and educational endeavors of engineers throughout New York State and the world.

Again, I would like to congratulate tonight's honorees. I commend you on your many remarkable years of achievement and send my best wishes for continued success.

Sincerely,

Kirsten E. Gillibrand

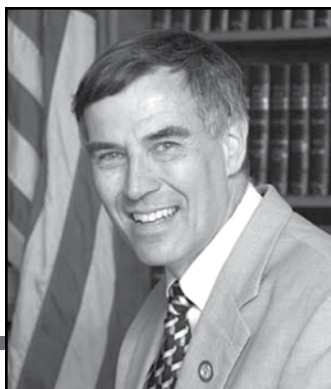
Kirsten E. Gillibrand
United States Senator

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2010 National Engineers Week



Letter from CONGRESSMAN Rush Holt

RUSH HOLT
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Congress of the United States

Chair
Select Intelligence Oversight Panel
Committee on Appropriations
Committee on Education
and Labor
Permanent Select Committee
on Intelligence
Committee on Natural Resources

February, 2010

Dear Friends:

I am pleased to have the opportunity to extend my greetings and best wishes to all who are in attendance to celebrate National Engineers Week and to honor the Asian American Engineers of the Year.

The Field of Engineering has always attracted bright, intellectually curious and mechanically talented people. Engineers use their knowledge and experience to design the most workable, best solution to a problem. We owe a great deal to Engineers -- their work has made our lives better and our communities stronger. My admiration for their work knows no bounds.

I also want to add my congratulations to those who have been selected as Asian American Engineers of the Year. To be recognized by one's colleagues is always a special honor and indicates that these honorees have earned the highest respect and admiration of those with whom they work. I join you in saluting their many achievements.

Again, my very best wishes to all.

Sincerely,

A handwritten signature of Rush Holt in cursive script.

RUSH HOLT
Member of Congress

RH/gk



Chinese Institute of Engineers-USA
www.cie-usa.org





National Engineers Week 2010

Letter from CONGRESSMAN Michael M. Honda



MICHAEL M. HONDA
15TH DISTRICT, CALIFORNIA

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HON. RESIDENTS: (925) 642-4715



Congress of the United States House of Representatives

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SENIOR MAJORITY W

CONGRESSIONAL ASIAN &
AMERICAN CAUCUS, CH

CONGRESSIONAL ETHNIC
AMERICAN CAUCUS, CH

CONGRESSIONAL-ASIAN &
AMERICAN CAUCUS, CH

February 1, 2010

Message from Congressman Mike Honda Congratulating the Chinese Institute of Engineers- USA American Engineer of the Year Awardees

Dear Friends:

Thank you for this opportunity to recognize the wonderful cutting edge work of the recipients of the 2010 Asian American Engineer of the Year Award (AAEOY). Each year, the National Engineers Week celebration gives us an opportunity to raise awareness on the pivotal importance of science and engineering to future generations and to strengthen America's competitiveness. Asian American professionals have a proud and long list of breakthrough contributions in science and engineering. Recipients of the AAEOY have included Nobel laureates and other leaders in academic, public service, and corporate world.

I want to congratulate all of the people being recognized today. In particular, I extend special congratulations to Dr. Charles Kuen Kao, a 2009 Nobel Laureate, for receiving the Distinguished Science and Technology Award for his contribution in the transmission of light in fibers for optical communication and to Dr. Shing-Tung Yau for receiving Distinguished Lifetime Achievement Award for his outstanding contribution in partial differential equations. I also want to commend the Chinese Institute of Engineers-USA for adding four new AAEOY Awards and recognizing the importance of supporting new leaders in the science and technology fields.

Once again, congratulations to all the recipients of these awards and may this conference continue to build momentum to highlight the important contributions of Asian American scientists and engineers to our nation's proud history of technological breakthroughs.

Warm Regards,

Michael M. Honda
MEMBER OF CONGRESS

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2010 National Engineers Week



Letter from UNITED STATES SENATOR Daniel K. Inouye

DANIEL K. INOUE
HAWAII

COMMITTEE ON APPROPRIATIONS,
CHAIRMAN
SUBCOMMITTEE ON DEFENSE,
CHIEF

COMMITTEE ON COMMERCE,
SCIENCE, AND TRANSPORTATION

COMMITTEE ON INDIAN AFFAIRS

LEGISLATIVE STEERING AND COORDINATION
COMMITTEE

COMMITTEE ON RULES AND ADMINISTRATION

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February 27, 2010

**National Engineers Week 2010
Asian American Engineer of the Year Award
Chinese Institute of Engineers-USA
Hyatt Regency New Brunswick
New Brunswick, New Jersey**

Dear Friends:

It is my pleasure to extend my warm greetings as your gather for the Asian American Engineer of the Year Award's (AAEOY) 2010 Banquet. I regret that due to my legislative duties in Washington, D.C., I am unable to be with you. However, please know that my thoughts are with you on this special evening.

I commend the Chinese Institute of Engineers-USA for their tireless efforts in promoting diversity in the engineering community. In particular, I wish to express my warmest congratulations to the evening's honorees for their tenacity, innovation, entrepreneurship, and hard work. Today's honorees have earned the admiration of their peers, and their outstanding accomplishments have inspired many of us to strive for excellence.

You have my best wishes for a memorable and enjoyable evening.

Aloha,

A handwritten signature of Daniel K. Inouye in black ink.
DANIEL K. INOUE
United States Senator

DKI:lnn



Chinese Institute of Engineers-USA
www.cie-usa.org





National Engineers Week 2010

Letter from CONGRESSWOMAN Doris O. Matsui



DORIS O. MATSUI
5TH DISTRICT, CALIFORNIA

February 27, 2010

Dear Friends:

I extend my warmest greetings to the Chinese Institute of Engineers on the occasion of your 2010 Asian American Engineer of the Year Award Program.

Since its founding, the CIE has dedicated itself to promoting diversity within the field of engineering, and has provided an indispensable forum for Asian American scientists to further their pursuits of knowledge.

I want to take this opportunity to recognize tonight's award recipients, Dr. Charles Kuen Kao, Dr. Shing-Tung Yau, and Dr. Arun Netravali. Your hard work and incredible dedication has increased our community's visibility within the engineering profession, and has paved the way for the next generation of Asian American leaders in the field of science.

Thank you for the opportunity to extend my greetings to the attendees of tonight's Award Program. Please accept my sincere and best wishes for what will undoubtedly be a successful and uplifting event.

Sincerely,

A handwritten signature in black ink that reads "Doris O. Matsui".

DORIS O. MATSUI
Member of Congress

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www.cie-usa.org

2010 National Engineers Week



Letter from UNITED STATES SENATOR Robert Menendez



February 27, 2010

Dear Friends,

Please accept my heartfelt wishes as you gather for the 2010 Asian American Engineer of the Year Award Program sponsored by the Chinese Institute of Engineers-USA (CIE-USA). Tonight's event is particularly special as CIE-USA recognizes the many outstanding Asian American engineers and scientists in commemoration of the National Engineers Week Program.

Since its inception in 1917, CIE-USA has been dedicated to fostering human relations and promoting diversity among engineers and scientists. It is a non-profit professional organization that encourages information exchange to preserve the well-being of the engineering community. I commend CIE-USA for its numerous efforts in increasing awareness on the importance of science and engineering to future generations.

I would like to take this opportunity to congratulate tonight's special award recipients -- 2009 Nobel Laureate, Dr. Charles Kuen Kao, and Dr. Shing-Tung Yau, recipients of the Distinguished Science and Technology Award, and Dr. Arun Netravali, recipient of the Distinguished Lifetime Achievement Award. They are exceptional individuals who have made groundbreaking achievements that have lasting global impacts. It is an honor to recognize them and tonight's other award recipients for their outstanding contributions to their respective fields.

Thank you for your kind invitation to join you at this event. As your United States Senator, I send my congratulations to tonight's award recipients and all the individuals in attendance for their tremendous work. Best wishes for a memorable and successful event.

Sincerely,

Handwritten signature of Robert Menendez.
ROBERT MENENDEZ
United States Senator

PAID for by MENENDEZ FOR SENATE, INC. 40111



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www.cie-usa.org





National Engineers Week 2010

Letter from CONGRESSMAN Frank Pallone, Jr.



COMMERCE COMMITTEE:
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AND ENVIRONMENT
SUBCOMMITTEE
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TECHNOLOGY SUBCOMMITTEE
RESOURCES COMMITTEE
OF BUSINESS, OCEANS AND
COAST GUARD SUBCOMMITTEE
ATOMIC POLICY COMMITTEE
INNOVATIONS CHAIR
www.house.gov/pallone

FRANK PALLONE, JR.
6TH DISTRICT, NEW JERSEY

Congress of the United States
House of Representatives
Washington, DC 20515-3006

January 21, 2010

REPLY TO:
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DISTRICT OFFICE
TOLL FREE NUMBER
(800) 425-1142
501 BRIDGEWAY
LONG BRANCH, NJ 0
(732) 571-1100
87 BRIDGEWAY
NEW BRUNSWICK, NJ
(732) 245-8888

Dr. Jun-Min Liu, Ph.D
The Chair of 2010 AAEOY Award Committee
8 Kathy Court
Holmdel, NJ 07733

RE: CIE-USA-sponsored Asian American Engineer of the Year Award Program

Dear Dr. Liu:

I would like to take this opportunity to congratulate this year's recipients of the AAEOY Award for their outstanding achievements in the fields of engineering and science. Their contributions to these disciplines will help simplify our lives, while simultaneously inspiring future generations of innovators.

I want to specifically recognize two outstanding individuals, Dr. Charles Kuen Kao and Dr. Shing-Tung Yau. Dr. Kao's research and development of high-purity glass fibers during the past several decades has led to significant advances in fiber optics communication. This technology plays an integral role in today's information age, ranging from its delivery of high-speed internet to millions of Americans, to its use in the military's submarine communications infrastructure. This prestigious recognition of the Distinguished Science and Technology Award is certainly well-deserved considering his enormous contribution to fiber optics communication.

I also offer congratulations to Dr. Shing-Tung Yau for his reception of the Distinguished Lifetime Achievement Award. His revolutionary application of partial differential equations to differential geometry has forever changed the field of geometry. The profound influence of Dr. Yau's work on the engineering profession, and its circuitous impact on society, makes him the ideal recipient of this prominent honor.

Once again, please convey my enthusiastic congratulations to all the esteemed winners of this wonderful award. I wish them continued success on their future endeavors.

Sincerely,

FRANK PALLONE, JR.
Member of Congress

PRINTED ON RECYCLED PAPER



Chinese Institute of Engineers-USA
www.cie-usa.org

2010 National Engineers Week



Letter from SENATE OF CANADA Vivienne Poy

加拿大國會參議院議員



THE SENATE OF CANADA

利登華
安省參議員

The Honourable Vivienne Poy
Toronto, Ontario

February 27, 2010

Dear Friends:

On behalf of the Senate of Canada, it gives me great pleasure to send my congratulations to the Chinese Institute of Engineers (CIE-USA) on the occasion of the 2010 Asian American Engineers of the Year (AAEOY) Award Ceremonies.

As a key part of 2010 National Engineers Week Program, held the third week of every February, the AAEOY Award ceremony is a unique opportunity to recognize the contributions of outstanding Asian American engineers for their personal and professional achievements and the impacts of their breakthroughs in science and technology. Since 2002, CIE-USA has selected 135 Asian-American engineers as recipients of the AAEOY Awards.

I send my best wishes to everyone in attendance at the 2010 Asian American Engineers of the Year (AAEOY) Award Ceremonies for a most productive and enjoyable evening.

Yours sincerely,

A handwritten signature in black ink, appearing to read 'Vivienne Poy'.

Vivienne Poy

Ottawa, Ontario K1A 6A4 (513) 943-7854 (513) 943-7856 (fax) E-mail: ppoy@sen.parl.gc.ca <http://sen.parl.gc.ca/vpoy/>



Chinese Institute of Engineers-USA
www.cie-usa.org





National Engineers Week 2010

Letter from CONGRESSMAN David Wu



DAVID WU
1st DISTRICT, OREGON
2338 RAYBURN HOUSE OFFICE BUILDING
WASHINGTON, DC 20515-3702
TELEPHONE: (202) 225-0855
620 SOUTHWEST MAIN STREET, 1
SUITE 600
PORTLAND, OR 97205
TELEPHONE: (503) 226-2901
(800) 422-4003
<http://www.house.gov/wu>



Congress of the United States
House of Representatives
Washington, DC 20515-3701

COMMITTEES:
SCIENCE AND TECHNOLOGY
CHAIRMAN, TECHNOLOGY AND INNOVATION
SPACE AND AERONAUTICS
EDUCATION AND LABOR
HUMAN EDUCATION, LIFELONG LEARNING, AND
COMPETITIVENESS
HEALTH, EMPLOYMENT, LABOR, AND PENSIONS

February 27, 2010

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 and to extend my warmest greetings to everyone gathered for the AAEOY celebration during National Engineers Week.

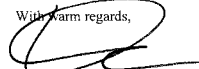
I commend the Chinese Institute of Engineers-USA (CIE-USA) for hosting this prestigious event. As a nonprofit professional organization, CIE-USA has been a leader in promoting diversity and information exchange among engineers and scientists. Since 2002, CIE-USA has awarded 135 Asian American engineers with the AAEOY award.

Again, I congratulate the 2010 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 great accomplishments, but of your hard work and diligence for the Asian American community.

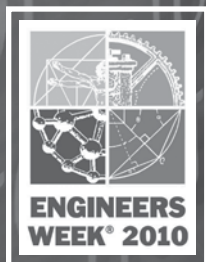
I applaud you for your continued work in strengthening Asian American leadership and achievement in science and technology. Let us continue to work together toward an innovation society that makes the investments in education, research, and technology transfer that are necessary to turn ideas into new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

My best wishes to all of you for continued success.

With warm regards,

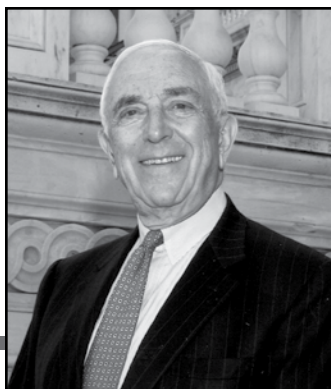

David Wu
Member of Congress

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Chinese Institute of Engineers-USA
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2010 National Engineers Week



Letter from UNITED STATES SENATE Frank R. Lautenberg

FRANK R. LAUTENBERG
NEW JERSEY

COMMITTEE
ON APPROPRIATIONS
COMMERCE, SCIENCE, AND
TRANSPORTATION
ENVIRONMENT AND
PUBLIC WORKS

United States Senate
WASHINGTON, DC 20510

February 27, 2010

Dear Friends:

Thank you for the invitation to the Asian American Engineer of the Year Award Program. Although I am unable to attend the 2010 National Engineers Week hosted by the Chinese Institute of Engineers-USA (CIE-USA), I would like to acknowledge the opportunities that this organization has provided for the Asian American engineering community.

The CIE-USA serves as a great networking organization for Asian American professionals, whose mission is to promote diversity in the workplace and exchange information and technology. Tonight's honorees have exemplified the CIE-USA mission with their dedication and enthusiasm to continue the advancement of the Asian American engineering community.

Once again, I would like to extend special congratulations to CIE-USA and tonight's award recipients and I offer my best wishes for a wonderful evening.

Sincerely,

A handwritten signature of Frank R. Lautenberg in cursive script.

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Chinese Institute of Engineers-USA
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National Engineers Week 2010

Letter from TECRO-NY GENERAL CONSUL Mr. Andrew Kao



Taipei Economic and Cultural Office in New York
1 East 42nd Street, New York, NY 10017
Tel: (212) 317-7300
Fax: (212) 754-1549

January 29, 2010

Dear Participants of 2010 AAEOY and Friends of the Chinese Institute of Engineers,

On behalf of Taipei Economic and Cultural Office in New York, it is my great pleasure to welcome everyone to the 2010 Asian American Engineers of the Year Awards hosted by the Chinese Institute of Engineers.

The Chinese Institute of Engineers (CIE) is to be commended for their continuing dedication in offering Asian-American engineers and scientists a platform to share their academic experiences and research achievements among the Chinese engineering community in the United States. CIE brings together members from diverse professional fields and backgrounds to communicate with each other and stay up to date on scientific issues. Moreover, CIE's yearly awards provide the perfect opportunity to recognize outstanding Asian-American professionals for both their personal achievements and their contributions in academia, public service and the corporate world.

Some of you may know that Taiwan has been called "an island of innovation," with a focus on development in information technology, telecommunication and biomedical engineering. Many outstanding Taiwanese engineers studying or working in the United States join the Chinese Institute of Engineers and benefit significantly from CIE's activities. I sincerely admire CIE's generous effort and the enthusiastic participation of its members.

Congratulations to all the award recipients. I wish you all continued success and a Happy New Year of the Tiger.

With warmest regards,

Andrew Kao
Ambassador



Chinese Institute of Engineers-USA
www.cie-usa.org

2010 National Engineers Week



Letter from BANGLADESH GENERAL CONSUL Md. Shamsul Haque



Consul General

Consulate General of Bangladesh New York

25 January 2010

Greetings



I am delighted to learn that National Engineers Week Foundation is going to celebrate the "Asian American Engineer of the Year Award (AAEOY) 2010" on 27 February 2010. I take this opportunity to extend my sincere greetings to the office bearers as well as all the organizers and members of the Foundation.

To-day, people of Asian origin are regarded as one of the most vibrant and dynamic group of expatriates in the United States. I believe the people of Asian origin have been able to create a special niche in the American society through their hard work, integrity and dedication. We are proud of their achievements in this country and at the same time, gratefully acknowledge their contributions in nation building.

I look upon National Engineers Week Foundation as an elite organization and a unique platform for the talented Asian-American technocrats, which will provide excellent opportunity for professional enrichment for engineers, scientists and ICT professionals of Asian origin. I consider this Award Ceremony as the nucleus of an ongoing process in building, branding and bridging an expatriate networked Asian Community in representing the region in a befitting manner and promoting the image and protecting the interests of the region in the USA. I hope the award ceremony will encourage the future scientists and engineers and also emulate the process into the new generation.

Once again, I take this opportunity to express my thanks and gratitude to the award winners and the organizers of the event for consecutively hosting such event.

I wish Asian American Engineer of the Year Award (AAEOY) 2010 all success.


(Md. Shamsul Haque)
Consul General

Email: info@bdengny.org Website: www.bdengny.org



Chinese Institute of Engineers-USA
www.cie-usa.org





National Engineers Week 2010

Letter from PAKISTAN CONSUL GENERAL A.S. Babar Hashmi



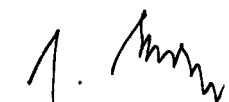
CONSULATE GENERAL OF PAKISTAN
12 EAST 85TH STREET
NEW YORK, N.Y. 10065
TEL: (212) 879-5800
FAX: (212) 517-6987

MESSAGE OF CONGRATULATIONS

It is a great pleasure for me to send my greetings and congratulations to the Asian American Engineers and Scientists on the occasion of their 2010 award ceremony. On this occasion I send my warmest greetings to members of this prestigious club for their contribution to honour the outstanding Asian American Engineers and Scientists.

The Asian American Engineer of the Year Award programme is commendable as for the past nine years it has served to encourage and honour the Scientists and Engineers from the Asian community and has duly acknowledged and rewarded their invaluable contribution in the field of science and engineering. Over these past years, the award has highlighted the very positive contributions that Asian Americans have made towards the society in general and industry in particular.

I wish you every success in your task of recognizing and promoting the genuine talent of Asian American community.


(A.S. Babar Hashmi)
Consul General

Mr. Jun-Min Liu, Ph.D
AAEOY Award
Planning Committee



Chinese Institute of Engineers-USA
www.cie-usa.org

2010 National Engineers Week



Letter from

Upendra J. Chivukula
Assemblyman



NEW JERSEY GENERAL ASSEMBLY

UPENDRA J. CHIVUKULA
Assemblyman, 17th District
888 Easton Avenue Somerset, NJ 08873;
Phone: 732-247-3999; Fax: 732-247-4383



January 20, 2010

Dear Friends,

It is with great pleasure that I congratulate the Chinese Institute of Engineers-USA and the National Engineers Week Foundation for the presentation of the Asian American Engineer of the Year Award at the New Brunswick Hyatt Regency.

As a fellow engineer, I salute your efforts to recognize outstanding engineers. I salute the members of the National Engineers Week Foundation for their hard work and the award recipients for their achievement.

Once again let me offer my most heartfelt congratulations on this auspicious event.

Sincerely,

A handwritten signature of Upendra J. Chivukula in cursive script.

Upendra J. Chivukula
Assemblyman, 17th District



Chinese Institute of Engineers-USA
www.cie-usa.org

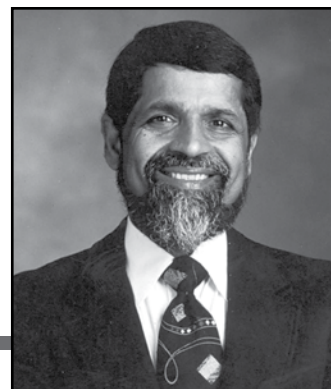




National Engineers Week 2010

Dr. Arun Netravali

*Former Bell Labs President
Founder and Managing Partner of OmniCapital*



Distinguished
Lifetime
Achievement
Award

Arun Netravali is a founder and managing partner of OmniCapital, a private equity firm based in Massachusetts and New Jersey. Previously, he was the President of Bell Laboratories, where he was responsible for research and development across all of Lucent (annual budget of \$3.5B and 22,000 people). He held a variety of management positions in AT&T and Lucent covering R&D in computing and telecommunications. During his tenure as the President of Bell Labs, R&D productivity improved by 40%, the patent rate climbed to 4patents/day, IP-revenue went up significantly, 35 ventures were launched with Bell Labs technology, and numerous leading-edge products were introduced in wireless, optical and data communications at record speeds.

Dr. Netravali is regarded as a pioneer in the field of digital technology and led numerous initiatives including Bell Labs' high definition television (HDTV) effort. He has authored more than 180 technical papers and co-authored three books. He is frequently sought as a keynote speaker at major industry forums. He holds more than 75 patents in the areas of computer networks, human interfaces to machines, picture processing and digital television.

Dr. Netravali is a member of Tau Beta Pi and Sigma Xi, a fellow of the Institute of Electrical and Electronic Engineers (IEEE), and AAAS, New Jersey's Inventors Hall of Fame, and a member of the United States National Academy of Engineering. For his technical achievements, Dr. Netravali has received numerous awards, including the Alexander Graham Bell Medal (1991), an Emmy for the HDTV Grand Alliance (1994), the Computers & Communications Prize, (1997) (NEC, Japan), the IEEE Frederik Philips Award (2000), the NASSCOM (National Association of Software and Services Companies in India) Medal (2000), the IEEE Jack S. Kilby Signal Processing Medal (2001), the Padma Bhushan Award from the President of India, which is the nation's third highest civilian honor (2001), the Science and Technology Medal from the R&D Council of NJ (2001), and the National Medal of Technology from President Bush (2001).

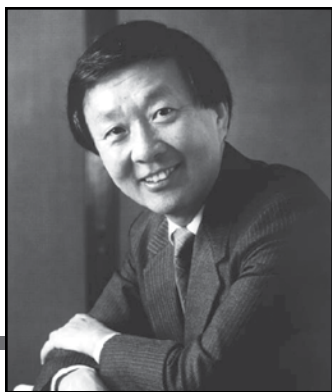
Dr. Netravali was an adjunct Professor at the Massachusetts Institute of Technology. He has taught graduate courses at City College (N.Y.), Columbia University and Rutgers University. He has served on the editorial board of several journals. He serves on the Boards of Level 3 Communications, and LSI, is an executive consultant to Accenture, LLP and was a trustee of NJ Institute of Technology. He is a member of the Indo/U.S. Science and Technology Council, initiated by former President Clinton and Indian Prime Minister, Mr. Vajpayee, and the NRI Advisory Committee for Telecommunications, created by Mr. Mahajan, former Minister of Communications in India.

Dr. Netravali received B.Tech from the Indian Institute of Technology, Mumbai, India, and master's and doctorate degrees from Rice University in Houston, Texas, all in electrical engineering. He holds honorary doctorates from the Ecole Polytechnique Federale in Switzerland, Clarkson University, Osmania University and IIT, Mumbai.



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2010 National Engineers Week



Dr. Charles K. Kao

Standard Telecommunication Laboratories, Harlow, UK

The Chinese University of Hong Kong

2009 Nobel Laureate in Physics

"for groundbreaking achievements concerning the transmission of light in fibers for optical communication"

"This year's Nobel Prize in Physics is awarded for two scientific achievements that have helped to shape the foundations of today's networked societies. They have created many practical innovations for everyday life and provided new tools for scientific exploration. In 1966, Charles K. Kao made a discovery that led to a breakthrough in fiber optics. He carefully calculated how to transmit light over long distances via optical glass fibers. With a fiber of purest glass it would be possible to transmit light signals over 100 kilometers, compared to only 20 meters for the fibers available in the 1960s. Kao's enthusiasm inspired other researchers to share his vision of the future potential of fiber optics..."

- The Royal Swedish Academy of Sciences

Charles K. Kao was born in Shanghai in 1933. He moved to Hong Kong in 1948 for his secondary school education and then went to the UK for further study. He received his B.Sc. degree in 1957 and obtained his Ph.D in 1965 in Electrical Engineering, both from the University of London.

He joined the International Telephone and Telegraph Corporation (ITT) in 1957 and was transferred to the corporation's Standard Telecommunications Laboratories (STL) in 1960, where he meticulously studied glass fibres. In January 1966, he presented his groundbreaking conclusions which stimulated into action a worldwide activity which has been growing exponentially for the past 25 years. From 1970 to 1974, he took a four-year leave of absence from ITT, to take up the position as Reader and then Chair Professor of Electronics at The Chinese University of Hong Kong (CUHK). He returned to ITT in 1974 as Chief Scientist and later became Director of Engineering. In 1982, in recognition of his outstanding research and management abilities, ITT named him the first ITT Executive Scientist. Concurrently, he was appointed Adjunct Professor and Fellow of Trumbull College at Yale University. In 1986, he was the Corporate Director of Research. From 1987 to 1996, he was the Vice-Chancellor (President) of CUHK.

Professor Kao is regarded as the 'Master of Light' who pioneered in the research of the optical fibre communication.

Based on the laser technology which was newly bloomed in the 1960's, he discovered how to transmit light over a long distance via optical glass fibres. This breakthrough paved the way for the development of optical cable networks that made efficient long-range, high-volume telecommunication transmissions possible.

An optical glass fibre is a cylindrical [HYPERLINK "http://en.wikipedia.org/wiki/Dielectric_waveguide"](http://en.wikipedia.org/wiki/Dielectric_waveguide) \o "Dielectric waveguide" dielectric waveguide ([HYPERLINK "http://en.wikipedia.org/wiki/Insulator_\(electrical\)"](http://en.wikipedia.org/wiki/Insulator_(electrical)) \o "Insulator (electrical)" nonconducting waveguide) that transmits light along its axis, by the process of [HYPERLINK "http://en.wikipedia.org/wiki/Total_internal_reflection"](http://en.wikipedia.org/wiki/Total_internal_reflection) \o "Total internal reflection" total internal reflection. Information is coded into an extremely fast flashing light, representing digital ones and zeros. It was made possible by the invention and development of the laser that came in time to provide the suitable light source.

In the early days of development, there was a great loss of light during transmission over long distances – only 1 per cent of light remained after a transmission of 20 metres. Professor Kao discovered that it was not imperfections in the fibre thread that was the main problem, instead it was the glass that had to be purified. The goal was to manufacture glass of a transparency that had never been attained before. To produce such glass, Professor Kao pointed out that fused quartz and fused silica could be used. In 1968-9, he and his colleagues at STL demonstrated that fused quartz had a loss of only 5 dB/km. His enthusiasm inspired other researchers, and the first ultrapure fibre optical waveguide was successfully made in 1970. It heralded the beginning of a new era in telecommunications.

The low cost and high performance of the optical fibre permit powerful new information services to be introduced. Light flows in threads of glass, as thin as a hair, which carries almost all of the telephony and data traffic in each and every direction. Text, music, images and video can be transferred around the globe in a split second. Today, more than 1 billion kilometres of optical fibre networks are in use – enough to span the globe more than 25,000 times! And that may never have happened without a visionary like Professor Charles Kao.

Distinguished
Science &
Technology
Award



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National Engineers Week 2010

Dr. Shing-Tung Yau

William Caspar Graustein

Professor of Mathematics

Chairman of the Mathematics Department

Harvard University



Distinguished
Science &
Technology
Award

Prof. Shing-Tung Yau was born April 4, 1949 in China. When he was fourteen, he moved to Hong Kong with his family where, after graduating from Pui Ching Middle School, he studied mathematics at The Chinese University of Hong Kong from 1966 to 1969. He undertook graduate studies at the University of California, Berkeley, where his advisor was Shiing-Shen Chern. He received his Ph.D. from the University of California, Berkeley in 1971. Afterwards, he spent a post-doctoral year at the Institute for Advanced Study and then another two years as an assistant professor at the State University of New York at Stony Brook.

Prof. Yau is an eminent Chinese American mathematician. He has made fundamental contributions to differential geometry which have uncovered deep intrinsic geometric structures in an astonishingly wide range of scientific disciplines like differential geometry, algebraic geometry, topology, partial Differential equations, general relativity and string theory. In 1976 he proved Calabi's conjecture on a class of manifolds now named Calabi-Yau manifolds, which has now become the geometric ground where physicists build their string theory.

His revolutionary use of the methods of partial differential equations in the area of differential geometry has had a lasting impact on geometry. Prof. Yau is renowned as an energetic teacher and educator. He has advised more than 50 Ph.D. students, with many of them prominent mathematicians. Meanwhile, Prof. Yau has received a number of awards. These include the Oswald Veblen Prize in Geometry (1981); the John J. Carty Award for the Advancement of Science of the National Academy of Sciences (1981); the Fields Medal in 1982, the John D. and Catherine T. MacArthur Fellowship (1985); the Humboldt Research Award (1991); the Crafoord Prize of the Royal Swedish Academy of Sciences (1994); the (U.S.) National Medal of Science in 1997; and the International Scientific and Technological Cooperation Award of China (2003).

Prof. Yau is currently the William Caspar Graustein Professor of Mathematics and the Chairman of the Mathematics Department at Harvard University. He is also the Director of The Institute of Mathematical Sciences at The Chinese University of Hong Kong in Hong Kong, the Morningside Center of Mathematics at Academia Sinica in China, the Centre of Mathematical Sciences at the Zhejiang University in China, and the Tsinghua Mathematical Sciences Center in China. He is a Foreign Member of the National Academy of Lincei, Italy, the Russian Academy of Sciences, and the Chinese Academy of Sciences. He is a member of the National Academy of Sciences and the Academy of Arts and Sciences. Prof. Yau is one of the most respected mathematicians in the world. He received 10 honorary degrees from top universities around the world, including Harvard, National Taiwan University, Zhejiang University, and The Chinese University of Hong Kong, for his seminal contributions in differential geometry, differential equations and general relativity.

Moreover, Prof. Yau is the Editor-in-Chief of the Journal of Differential Geometry (1980–present), Advances in Theoretical Mathematics and Physics (1997–present), Dynamics of Partial Differential Equations (2004–present), Communications in Number Theory and Physics (2007–present), and the Asian Journal of Mathematics (1997–present).



Chinese Institute of Engineers-USA

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2010 National Engineers Week



Dr. Dianne Chong, Ph.D.

Vice President

Boeing Engineering, Operations & Technology

The Boeing Company

Dr. Dianne Chong is the Vice President of Materials Assembly, Factory & Support Technology in the Boeing Engineering, Operations & Technology organization. In this position she leads the organization responsible for development and support of manufacturing processes and program integration for the Boeing Enterprise.

Prior to this she was the Director of Materials & Process Technology for Boeing Commercial Airplanes. Chong was also the Director of Strategic Operations and Business for IDS Engineering. In this capacity, she was the lead director defining and implementing a solid strategy for all Boeing Engineering. She has also been the Department Head/team leader of MSE, liaison, and process control groups in Phantom Works and Integrated Defense Systems. Chong received Bachelors degrees in biology and psychology from the University of Illinois. She also earned Masters degrees in physiology and metallurgical engineering. In 1986, Chong received her Ph.D. in Metallurgical Engineering from the University of Illinois. She also completed an Executive Master of Manufacturing Management at Washington University. Chong has served as the St. Louis representative to Military Handbook 5 where she has chaired the Aerospace Users' Group and the titanium casting group. Chong is a member of TMS, AIAA, ASM International, SME, SWE, Beta Gamma Sigma, and Tau Beta Pi. She has been recognized for managerial achievements and as a diversity change agent. She was also recognized as an outstanding alumna of University of Illinois in 2006. Chong has a member of the National Materials Advisory Board. She has served on the Board of Trustees and is a Fellow of the ASM International. In 2007-08, she served as the President of ASM International. Chong is currently serving on the NAS Board on Global Science and Technology and is a commissioner to the ABET EAC.

Asian American
Executive
of the Year
Award



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National Engineers Week 2010

Mr. Roger U. Fujii

Vice President

Northrop Grumman Information Systems

Northrop Grumman Corporation



Roger U. Fujii is vice president of the Network Communication Systems (NCS) Business Unit. In this role, Mr. Fujii leads NCS with responsibility for the organization's overall management and execution of strategic initiatives.

Headquartered in San Diego, Calif., NCS focuses on refining and expanding communications capabilities in a network-centric environment. The organization developed the Battlefield Airborne Communication Node (BACN), the first deployed operational system that created a seamless interoperable communication system between disparate radio systems. His organization also designs and develops the Communication, Navigation, and Identification (CNI) system for F-22 and F-35 advance aircraft. The organization also designs and develops new technology Improvised Explosive Device (IED) systems using a new software defined radio technology. The organization also develops the major military network management systems for Future Combat System (FCS), TSAT Mission Operations System (TMOS), and Joint Tactical Radio System Ground Mobile Radio (JTRS GMR). His organization is the premiere tactical data link interoperability analysis and test organization having supported the United States Navy in this role for over 25 years of continuous service. Previously, Mr. Fujii was sector vice president and General manager of the Network Communications Division for Northrop Grumman Mission Systems.

Mr. Fujii was vice president of Communications and Systems Technology for the Defense Mission Systems Division within Northrop Grumman Mission Systems. In this role, he led an organization responsible for C4ISR (command, control, communication, computers, intelligence, surveillance and reconnaissance) acquisition and engineering support, tactical data link systems, system interoperability certification, satellite network management, information assurance, knowledge management and intelligence fusion systems.

Prior to this assignment, Mr. Fujii was responsible for the capture and development of the National Missile Defense launch processing software system and Joint Mission Planning System for aircraft route planning. He started major initiatives in state and local government software engineering activities in California, Florida, Texas, Colorado, and Nevada.

Mr. Fujii is a nationally recognized expert in software verification and validation (V&V) and software safety analysis. He managed the software nuclear certification of more than 25 major Air Force and Navy nuclear weapon systems. He originated the software nuclear safety methodology currently being used for all nuclear weapons today. The nuclear systems include the intercontinental ballistic missile systems (Minuteman, Peacekeeper, Small Missile), Tomahawk cruise missile systems, battleship launched cruise missiles and Los Angeles class fast attack submarine fire control system.

Mr. Fujii is a member of the Institute of Electrical and Electronics Engineers (IEEE) Computer Society Board of Governors and was recently voted 2010 first vice president in this year's Institute of Electrical and Electronics Engineers (IEEE) Computer Society election. He also is the IEEE chairperson for Standard for Software Verification and Validation (Std. 1012). From 1988 to 1992, he was the United States chairperson of the international software engineering standards technical advisory group (ISO/IEC JTC/SC7) which developed ISO/IEC Std. 12207, Software Life Cycle Processes.

Mr. Fujii served on the National Academy of Science's national research council committee, reporting on the oversight mechanisms for the space shuttle software process. He lectures on systems engineering and V&V at the University of California, Los Angeles; California State University, Sacramento; and Defense Systems Management College, Ft. Belvoir, Va. He has more than 25 major publications in journals and conferences. He has received the IEEE awards for "Golden Core Member," "Outstanding Achievement," and "Meritorious Service."

Mr. Fujii earned a Bachelor of Science in engineering mathematics and a Master of Science in electrical engineering/computer science from University of California, Berkeley. He is also a graduate of Executive Management Program at University of California John E. Anderson Graduate School of Management, Darden School of Management at the University of Virginia, and Harvard Business School for Executive Management.

Asian American
Executive
of the Year
Award



Chinese Institute of Engineers-USA

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2010 National Engineers Week



Dr. Ambuj Goyal

General Manager

Business Analytics and Process Optimization Unit

IBM's Software Group

Ambuj Goyal is general manager of the Business Analytics and Process Optimization unit of IBM's Software Group. In this role, Dr. Goyal is responsible for creating and delivering solutions that help organizations transform and optimize their businesses. These transformations are achieved through expert use of IBM's analytics and process optimization capabilities and industry-aligned expertise across software, hardware and services organizations.

Prior to this role, Dr. Goyal served from 2005 – 2009 as general manager of IBM Information Management Software, where he drove IBM's emergence as a leader in the business analytics space, combining organic innovation with strategic acquisitions including Cognos, and FileNet. As a foundation for this effort, Dr. Goyal created and spearheaded IBM's Information Agenda strategy to help clients optimize their businesses by focusing on information as a strategic asset. The Information Agenda builds on the rich portfolio of information management capabilities that Dr. Goyal constructed, spanning data and content management to trusted information delivery to performance management and predictive analytics.

Prior to his Information Management role, Dr. Goyal served as the general manager, Workplace, Portal, and Collaboration Software (WPLC) from January 2003 to August 2005. In that position, he designed then executed the transformation of IBM Lotus Software by expanding its focus beyond the traditional "Collaboration" marketplace to encompass the "People Productivity" market. He was responsible for setting the business strategy and direction for the WebSphere Portal product set, the Lotus Software product set, and the IBM Workplace product set.

Dr. Goyal previously served as General Manager, Solutions and Strategy, IBM Software Group, from February 2001, to January 2003. In that position, he was responsible for setting business strategy for IBM's Software Group, the WebSphere Business Integration product set, and delivering industry-specific middleware solutions. Dr. Goyal also served IBM as Chief Technology Officer, Application & Integration Middleware Division, which includes the WebSphere and MQ product families.

He joined IBM Corporation in 1982 as a research staff member at the T.J. Watson Research Center. His early work in scalable databases led to IBM's Universal Database (DB2) family. He was also responsible for setting the early direction in Web application servers, which led to the WebSphere product family. He also led the research efforts to create the RS/6000 SP supercomputer and the Deep Blue World Chess Champion computer. In 1996, Dr. Goyal was named Vice President, Services and Software, and Director, Computer Sciences in 1996. In this dual role, he was responsible for setting IBM's long-term research direction in computer sciences, as well as ensuring that the best emerging technologies contribute to IBM's services offerings and software products. He had approximately 1,500 researchers reporting to him in seven labs worldwide.

Dr. Goyal has authored more than 25 articles in various fields and has received five Outstanding Innovation awards from IBM for his work. He was elected an IEEE Fellow for his contributions to the theory and practice of highly dependable systems; elected an ACM Fellow in recognition of outstanding technical and professional achievements in the field of information technology.

Dr. Goyal received his Ph.D. degree in Electrical Engineering from The University of Texas at Austin in 1982, and his Bachelor's degree from the Indian Institute of Technology at Kanpur, India in 1978.

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Dr. Clifford K. Ho

*Distinguished Member of the Technical Staff
Sandia National Laboratories*

Dr. Clifford K. Ho is a Distinguished Member of the Technical Staff at Sandia National Laboratories, where he has worked since 1993 on problems involving water treatment and distribution, concentrating solar power, heat- and mass-transfer processes in porous media, probabilistic performance assessments for nuclear waste management and environmental remediation, and the development of microchemical sensor systems for environmental monitoring.

Dr. Ho has authored or co-authored over 130 scientific peer-reviewed papers, including 4 patents, over a dozen technical advances, and several book chapters. He is an author and co-editor of the books, "Gas Transport in Porous Media" (published by Springer) and "Yucca Mountain Project" (published by Elsevier). Dr. Ho has served as guest editor for the Journal of Contaminant Hydrology, and he serves on the editorial advisory board for the journal Sensors, where he published the special issue on Sensors for Environmental Monitoring. Dr. Ho has also served as Adjunct Professor in the Department of Mechanical Engineering and the Department of Earth and Planetary Sciences at the University of New Mexico, where he taught undergraduate and graduate courses in Heat Transfer, Thermodynamics, Dynamics, Engineering Analysis, and Hydrogeology. He received an Outstanding Professor Award in 1997.

Dr. Ho has been a leader in numerous community services and activities. He currently serves as the President of the Antelope Run Neighborhood Association, overseeing and initiating neighborhood and community activities for 139 homes. He served as Vice-President of the Board of Directors for the Shandiin Child Development Center, where he was responsible for the fiscal and operational welfare of the daycare that served nearly 100 families annually. He also served as the President and Vice-President of Education for an Albuquerque chapter of Toastmasters International. Dr. Ho regularly volunteers for Habitat for Humanity, Make a Difference Day, and Sandia's Science and Technology Outreach program.

Dr. Ho received his B.S. in Mechanical Engineering from the University of Wisconsin-Madison in 1989, and his M.S. and Ph.D. degrees in Mechanical Engineering from the University of California at Berkeley in 1990 and 1993.

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- INFORMATION TECHNOLOGY
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GRACE JIANG:
Asian American Most Promising
Engineer of the Year

DR. SUDHAKAR SHETTY:
Asian American Engineer
of the Year

DR. DIANE CHONG:
Asian American Executive
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Wesley (Wes) Ishizu

Mid-Pacific Division Director

*Naval Facilities Engineering Command, Pacific
(NAVFAC Pacific)*

Mr. Ishizu is a graduate of California Polytechnic State University, San Luis Obispo with a Bachelor of Science in Civil Engineering in 1982. He is also a graduate from the Department of Defense Executive Leadership Development Program, 2002.

Mr. Ishizu started his professional career after completing college, working as a nuclear stress analyst for EDS Nuclear in San Francisco, CA. He did extensive work on nuclear safety systems for the Duke Power Company nuclear plants.

He started his federal civil service career as a general engineer in the Facilities Management Department for Naval Station Mare Island in Vallejo, California. He oversaw the maintenance and repairs of the support facilities, was the installation project engineer for a MCON barracks project and developed energy conservation strategies for the installation.

He then moved overseas to Fleet Activities, Sasebo Japan in 1985 as the Technical Support Branch Manager. In 1988, he became the 1st Facilities Planning Manager and developed a comprehensive planning and real estate team. During his time in Sasebo, over \$1.5 billion in new facilities were planned and constructed, major real estate transactions enacted, and provided facilities support for major force structure increases.

Mr. Ishizu moved to Commander, Naval Forces Japan (CNFJ) in May 2003 to become the Base Development and Real Estate Business Line Manager. His business line was responsible for Japan and Diego Garcia and managed the Government of Japan's Host Nation Facilities Improvement Program, Special Projects Program, MCON Program and Host Nation Real Estate, which account for over \$200M in construction and recapitalization projects for the CNFJ region annually. He also represented the USN as a member of the Facilities Subcommittee of the Joint Committee between the Government of Japan and the U.S. Government.

Mr. Ishizu moved to Naval Facilities Engineering Command, Pacific in Sept 2005 and is currently the Mid Pacific Division Director with planning responsibilities for the State of Hawaii and the Territory of Guam.

Mr. Ishizu was selected as the Officer in Charge of Construction Far East Engineer of the Year (under 36 category) in 1987 and 1989.

Mr. Ishizu is a registered professional engineer in the state of California.

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Capt. Joker Lee Jenkins

United States Fleet Forces Command
USFFC



CAPTAIN Joker Lee Jenkins was born in Taipei, Taiwan, Republic of China and raised in San Diego, CA. He is a graduate of the U.S. Naval Academy, Class of 1989, with a Bachelor's Degree in Mechanical Engineering. Following nuclear power training he reported as Reactor Electrical Officer on USS ABRAHAM LINCOLN (CVN-72) in Alameda, CA deploying twice to the Arabian Gulf in support of Operation DESERT STORM, and qualifying Surface Warfare Officer and Nuclear Engineer. His second division officer tour was as commissioning Navigator on USS JOHN S. MCCAIN (DDG-56). After a commissioning that included former President George H.W. Bush, Senator McCain, and the Chief of Naval Operations, MCCAIN sailed from Bath, ME to homeport, Pearl Harbor, HI via the Panama Canal. He also served as liaison officer onboard a Russian Navy Ropucha-Class LST in Operation COOPERATION FROM THE SEA 1995.

His first department head tour was as Combat Systems Officer on USS O'BANNON (DD-987) in Mayport, FL, deploying once to the Arabian Gulf. He then served as Main Propulsion Assistant on USS JOHN C. STENNIS (CVN-74) in San Diego, CA completing his fourth Arabian Gulf deployment.

His Executive Officer tour was first onboard USS ELLIOT (DD-967) in San Diego, CA, followed by USS FLETCHER (DD-992), as part of the Navy's DD/DDG Sea Swap Program. As part of the Navy's Sea Swap Program ELLIOT was decommissioned. The ELLIOT crew assumed FLETCHER and completed Arabian Gulf and Horn of Africa deployment in support of Operations IRAQI and ENDURING FREEDOM.

Shore assignments include the NAVAL SURFACE WARFARE CENTER in White Oak, MD in the Experimental Explosives Test and Development Branch. Following his division officer tours he was selected for a JOINT CHIEF'S OF STAFF INTERNSHIP at the Pentagon. As a Deputy Legislative Assistant to the Chairman of the Joint Chiefs of Staff, he provided direct support during Congressional Hearings for Bosnia/IFOR and Unified Commander's Posture Testimonies and Confirmations. He also served as a WHITE HOUSE MILITARY SOCIAL AIDE supporting the President's White House Military Office. While attending the Naval War College at Newport, RI, he earned a Masters Degree in National Security and Strategic Studies with a specialty in Far East Asia. This was followed by selection as an Associate Fellow to the Chief of Naval Operations STRATEGIC STUDIES GROUP working on developing the FORCEnet and SEAPOW 21 concepts. His most recent shore assignment was as Deputy Executive Assistant to COMMANDER, UNITED STATES FLEET FORCES COMMAND (USFFC), providing direct support to man, train, and equip naval forces worldwide, and advising the Chief of Naval Operations in current and future capabilities.

He was the 16th Commanding Officer of USS GARY (FFG-51) as part of the Forward Deployed Naval Forces (FDNF) in Yokosuka, Japan operating in Asia and the Western Pacific. He led transition of GARY from Seventh Fleet to Third Fleet in San Diego as part of the Hull Swap program with USS MCCAMPBELL (DDG-85) conducting a trans-Pacific transit and undergoing a 70-percent personnel transfer between the two crews.

Currently, he is serving as Officer-in-Charge Nuclear Power Mobile Training Team (NPMTT) for COMMANDER, NAVAL AIRFORCES PACIFIC Force Nuclear Propulsion, responsible for maintaining the nuclear propulsion readiness and training of the U.S. Navy's Pacific Fleet aircraft carriers.

Personal Awards include the Legion of Merit, three Meritorious Service Medals, a Joint Staff Commendation Medal, three Navy and Marine Corps Commendation Medals, and two Navy and Marine Corps Achievement Medals. CAPT Jenkins is married to the former Ms. Lydia Mae Ronneberg of Tigard, OR. They currently reside in San Diego, CA where he also volunteers as a docent at the San Diego Chinese Historical Society Museum.

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Grace P. Jiang

*Senior Manager, Production Control
Integrated Defense Systems
The Boeing Company*

Boeing Work Experience

Jiang joined the Boeing Company in 2001 and successfully completed her assignments rising from a Computer Programmer, to an IT Project Manager, to a Manager, to a Senior Manager in areas across Information Technology, Procurement, and Production Control in a very short time span. Jiang is a National Woman of color Technology All Star Award winner for the year of 2009. She is also a 2009 Boeing Global Diversity Change Agent Award Winner Jiang currently works as a Senior Manager in a Production Control group at the Integrated Defense Systems St. Louis site. Her responsibilities include overseeing Production Control for quick response shop and tooling fabrication, 3PL and receiving. As Jiang brings passion and new technology to the factory shop floor, she is the leader of RFID(Radio frequency Identification) tool application project and a co-leader of Boeing CELDi project (Center for Engineering Logistics and distribution).

Technical Project Achievements

Prior to her current position, Jiang worked as an IT Manager in the Manufacturing Engineering Application Systems Organization. Her major function was to provide leadership and guidance to Manufacture Engineering applications support of 737, 777, and 787 BCA Airplane Programs and the IDS C-17 Program. She led the team to successfully complete a new enterprise wide engineering system evaluation project; successfully deploy existing Manufacture Engineering software in 777 and five other sites; successfully create new engineering software for 787; and successfully convert several C-17, 737 legacy systems to web based software. The cost savings benefit from one site alone is thousands of hours per year. Jiang has a passion for efficiency and process improvement. Her team successfully supported CTCT(Common Tool Collaboration Team) and SPST (standard process standard tooling) engineering initiative projects. While Jiang was a Computer Programmer, she was the lead of a major financial system. Her premium customer service and great coding skills help her to deliver project deliverables on time and under budget.

Community Service

Jiang served as Vice President of Boeing Women in Leadership (BWIL) and Boeing Asian American Professional Association (BAAPA) in St. Louis in 2009. She is 2009 St. Louis Valuing diversity Influencing award and investing award winner. Jiang is a zealous organizer of culture events and ardently promotes diversity. She served as a Board Member of the Boeing Asian American Professional Association (BAAPA) in Seattle from 2005 to 2008. Jiang organized culture awareness events, career advising events, mentoring events, and she chaired the 2004 and 2005 APA picnics, which included fifteen Asian American Organizations. She served as the President of the Chinese Students & Scholars Association at the University of Washington where she led a 1600 member non-profit organization and provided community service to Asian students at the University. She lead board member in organizing new student welcome party, talent show contest, Chinese New Year party to promote Chinese culture and enrich student life. Her team organized networking event, mentoring event to help students better prepared for the job market. Education Jiang holds a Masters Degree in Business Administration from the University of Washington. She has also earned Bachelor Degrees in Computer Science, Information Systems, Accounting, and History. She is a CPA license holder in Washington State. She has earned a Masters Certificate in Project Management. Jiang is enrolled in Master program of Computer Science and Engineering at Washington University at St. Louis.

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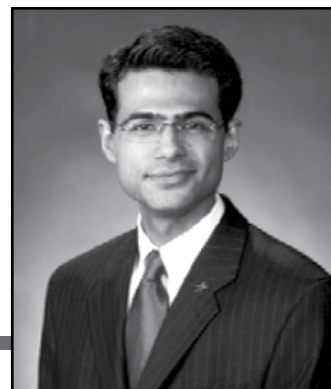


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Amir Kazmi

*Program Analytics Programs Manager
Lockheed Martin Corporation*



As the newly appointed Program Analytics Program Manager, Amir is focused on developing predictive program performance capability. In this new role Amir focuses on analyzing hundreds of programs across the IS&GS Business Area for systematic fault lines and trends. His business case analysis assists in predictive risk management and continuous program performance improvement.

Most recently, Amir was the Information Systems Leadership Development Program (ISLDP) and Innovation Programs Manager in the IS&GS CIO organization. He successfully led three distinct programs. As the ISLDP Manager, Amir was responsible for setting program strategy and managing participants supporting critical programs across US. In the Innovation Programs Manager role, Amir developed a corporate wide social collaboration tool and methodology to capture and channel business growth ideas. In these positions, Amir provided business guidance and leadership to 15 employees in over 4 locations across the US.

Previously, Amir was the Program Manager for Lab Optimization. He led the consolidation of 24 labs across the United States, which enabled annual savings of over \$2.5 million.

Amir has worked with Lockheed Martin since 2003. Amir has held leadership positions on programs supporting various federal departments, including Department of Defense, Treasury, Justice and Labor. These roles have included Software Engineer, Principal Investigator in Research & Development, Project Lead as a special assignment to the Corporate Chief Technology Officer and Program Manager. His product knowledge spans Department of Defense communications, Defense doctrine modeling and simulation, collaboration, business area innovation, web applications, emerging technology assessment and legacy system integration. His areas of interest include leadership, domestic and international business strategy, alternative energy storage, IT healthcare, and offensive cyber-security capability development.

As an active member of the community, he was a member of President Obama's Grassroots Finance Committee (GFC) and a grassroots campaign member in NYC. He serves on the Industry Outlook team for the TechAmerica Association focused on developing an independent Aerospace & Defense sector forecast. Amir is also a graduate of the Lockheed Martin Engineering Leadership Development Program (ELDP). He has received four Special Recognition Awards, VIP Award, and Quality Excellence Award.

Amir holds a master's degree in Systems Engineering from John Hopkins University and a bachelor's degree in Computer Science with a minor in Political Science from Mount Saint Mary's University.



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Hung Q. Le

IBM Fellow

IBM System and Technology Group

Hung Le is an IBM Fellow in the IBM System and Technology Group. He is leading the development of IBM next generation Pserver processor.

Hung has played a key role in shaping the direction of IBM pServer microprocessor. He was involved in the development of the PowerPC architecture and is the principle architect behind pServer microprocessors. He has introduced leading technologies to IBM server design such as advanced out of order architecture, simultaneous multithreading, high frequency design, multi core on a chip. Hung's innovations were applied to IBM microprocessors that have been used in super computers, servers, workstations, and personal computers. Hung led the development of several microprocessor products that enable IBM to be the leader in the server market.

Hung holds more than 80 patents in the field of microprocessor design. He has received 3 IBM Corporate awards, and 4 IBM Outstanding Technical Achievement awards. In recognition of his technical contribution he was appointed to IBM Fellow, the highest technical achievement at IBM, in 2009.

Hung joined IBM in 1979 after graduated with the Bachelor of Science Degree in Electrical and Computer Engineering from University of Potsdam. He currently resides in Austin, Texas and can be reached at hung@us.ibm.com

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Anita D. Liang

*Deputy Director
National Aeronautics and Space Administration
(NASA)*



Anita D. Liang serves as Deputy Director of the Facilities and Test Directorate at the National Aeronautics and Space Administration's (NASA) John H. Glenn Research Center at Lewis Field. She has been a member of the U.S. government's Senior Executive Service (SES) since November 2002. Her government career spans 20 years.

Ms. Liang assists the Director with all aspects of planning, organizing, coordinating, and evaluating new Facilities and Test Directorate's work. Ms. Liang directs the management of Glenn's test facilities' operation, including flight assets, at Lewis Field. She also oversees maintenance and assessment of the Center's facilities, infrastructure, and test and evaluation technical services in support of its research and development programs and business activities.

As Associate Director for Aeronautics, Ms. Liang served as the Center's point of contact for developing the overall Aeronautics program strategy. In the position of Chief of the Aeropropulsion Project Office, she was responsible for the management, execution and implementation of all projects at Glenn related to aeropropulsion advancements for future propulsion and power systems. Ms. Liang also served as Glenn's focal point for the integration and coordination of all aerospace fuel cell efforts.

Ms. Liang has been an integral part of Glenn's Aeronautics Management Team since 1994. She was the Deputy Chief of the Subsonic Systems Office and the Integration Manager for the Advanced Subsonic Technology Program. Ms. Liang joined Glenn in 1989 as the Earth-to-Orbit Program Manager and assumed steadily increasing responsibilities for inter-Center coordination, program execution advocacy and identifying future propulsion opportunities.

Ms. Liang began her professional career at Babcock and Wilcox in 1981 as a research and project engineer. She earned her bachelor's and master's degrees in engineering from McGill University, Montreal, Canada. She participated in the Johnson Space Center's Program and Project Manager Development Program and NASA's Senior Executive Service Candidate Development Program. She has also received several NASA honors, including the Exceptional Leadership Medal, Medal for Exceptional Achievement, and Space Flight Awareness Honoree Award.

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Dr. Qi Lu

President

Online Services Division

Microsoft

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.

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John Miyamoto

*Vice President
Lockheed Martin Space Systems
Lockheed Martin Corporation*



John Miyamoto is vice president of Advanced Extremely High Frequency (Advanced EHF) Space Vehicles 4/5/6 Enhancements Programs at Lockheed Martin Space Systems Company in Sunnyvale, California. He is responsible for the procurement of Space Vehicles 4/5/6 and technology enhancements of Advanced EHF, a secure, protected military communications satellite program valued at over \$3 billion.

During the past 24 years, John has held positions of increasing responsibility that span the entire life cycle of program development—from the pre-proposal proof-of-concept phase through product delivery. He has a broad knowledge in systems engineering as well as radio frequency/microwave/digital communications hardware development for both ground and space applications. He has supported over 11 competitive proposals and led an organization that successfully delivered over 32 advanced communications products and provided communication system engineering services to a variety of defense, civil, and commercial space programs during his tenure.

Prior to his current position, John was vice president for the Advanced EHF program and was also responsible for providing engineering support for the operational Milstar and Defense Satellite Communications System military communications constellations. Earlier John served as the chief system engineer and system engineering, integration, and test director, and then as the deputy program manager on the Advanced EHF program, providing technical and program leadership for all phases of the advanced communications system development and design.

John earned a bachelor's degree in electrical engineering from California State University at Fresno. He is a member of the Institute of Electrical and Electronics Engineers, Antenna Measurement and Techniques Association, and Armed Forces Communications and Electronics Association.

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Abhay Paranjape

Director

Lockheed Martin Aeronautics in Marietta

Lockheed Martin Corporation

Abhay Paranjape is a Director for Lockheed Martin Aeronautics in Marietta. As the C-130J India Program Manager, he leads the inaugural program in India for Lockheed Martin and the United States Air Force. In this role, Abhay manages all aspects of development, production and long term support and sustainment of a Special Operations aircraft capability for the Indian Air Force and Indian Army. In addition to managing the \$600M program for Lockheed Martin, Abhay is also responsible for coordinating efforts between other Lockheed Martin business areas for the development of a full motion aircraft simulator, building the base infrastructure at Hindan Air Force Base in India, and training the Indian pilots and maintainers to operate the aircraft.

Abhay began his career in the aerospace defense industry in 1985 with General Dynamics – Fort Worth, now Lockheed Martin Aeronautics Company. In the past 25 years Abhay has consistently demonstrated an ability to conceptualize, develop and mature advanced technologies for the Aerospace industry. In the years prior to assuming his present position, he made major contributions to three fighter aircraft programs – F-16, F-22 and F-35. Throughout the nineties, he developed a unique non-cooperative identification technique using radars and neural network technology and a new cooperative attack and fire control system concept for multiple manned and unmanned aircraft operating in a high threat environment.

His responsibilities in Program Management have also involved managing the Australia and Canada Industrial participation programs for the F-35 fighter program. In this role, Abhay was responsible for developing execution plans and reaching agreements on industrial cooperation opportunities for key industrial partners in Australia and Canada. Abhay's success in developing Industry capability for the F-35 program was recognized on multiple occasions by Australian and Canadian Government leaders.

Abhay received a bachelor of science in electrical engineering in 1982 from the M.S. University of Baroda – India, and in 1985 a master of science in electrical engineering from the University of Houston. Abhay is recognized for his technical acumen, program management, business development and industrial expertise, skills that, on two occasions, have earned him the highest Lockheed Martin Aeronautics Company employee recognition, the prestigious Aero Star.

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Melissa Sandlin *Northrop Grumman Corporation*



Melissa Sandlin grew up in Kankakee, Illinois, the third of four children in the Sandlin family. She was adopted from Seoul, South Korea at the age of 5 months and grew up in a household of 4 adopted children. Melissa was always an excellent student and consistently ranked at the top of her class. She graduated valedictorian of Kankakee High School in 1991.

It was a high school summer enrichment program at the University of Illinois, Urbana-Champaign that helped Melissa discover engineering. In her junior year she attended JETS/MITE (Junior Engineering Technical Society/Minority Introduction to Engineering), a two-week camp that introduced minority students to the engineering fields offered by the University. During the camp, Melissa toured a laboratory where one-armed PUMA robots were busy building little plastic replicas of themselves. In that moment, she was hooked. Then and there, she decided on her major – mechanical engineering. Five years later, she was studying in the very same lab.

That summer experience shaped not only Melissa's career path in manufacturing automation, but also her commitment to discovering and fostering the engineers of tomorrow.

Her dedication to engineering led her to pursue an advanced degree. After graduation from the University of Illinois, she earned a masters degree in mechatronics and automation at the Georgia Institute of Technology. There, she studied machine vision and its applications to automated food processing.

Melissa took her first engineering job with Lucent Technologies, at their telecommunications lab in Makuhari, Japan. In that position, she was able to apply her major studies in engineering to the design of telecommunications equipment, but also her minor studies in Japanese.

She then joined Corvis Corporation, another telecommunications company, and quickly distinguished herself as an expert in her field. At Corvis, she developed a process to generate manufacturing work instructions using Pro/ENGINEER. She trained the entire engineering staff in this process, and managed a contractor during its implementation.

Melissa then joined Northrop Grumman Corporation as a Manufacturing Process Engineer where she again demonstrated her engineering expertise and professional drive as she quickly rose through the ranks. In her first position, she was responsible for an x-ray inspection process, a machine that used x-rays to examine the quality of solder joints in military electronics. She then became a manufacturing Project Engineer, following a single product through its entire life cycle, from introduction to full-rate production. In this role, she addressed a wide range of issues, from material vendor problems, to manufacturing process problems, to problems with test yield.

Melissa led several cost reduction and yield improvement project teams for her product, the Joint Strike Fighter Transmit/Receive (T/R) Module. She earned her Six Sigma Green Belt for an effort to reduce the cycle time for assembly of T/R Modules – a project that will lead to hundreds of thousands of dollars of savings over the lifetime of that program.

The quality of her work has earned her praise and recognition from high level executives, but she is the first to admit that she did not get there on her own. Mentors and coaches played a vital role in opening Melissa's eyes to the world of engineering, so she readily pays it forward by doing the same for upcoming generations of students. With each step of her engineering career, Melissa has actively participated in efforts to find and foster the engineers of tomorrow.

Melissa has always been active in engineering outreach programs. She has participated in Northrop Grumman's DiscoverE program for the past five years, introducing engineering as a profession to third, fourth and fifth graders. She served as a mentor in and now leads Northrop Grumman's WORTHY Program, a high school mentoring program aimed at inner city students interested in pursuing a career in engineering and is now leading the WORTHY program in the Baltimore area. Melissa feels that the opportunities that were afforded to her should be available to every student and that exposing them to these possibilities at a young age increases their chance to develop career goals and strive for the education they need to reach them. She recognizes that nothing is more important than helping future generations shape their future and, at the same time, the future of engineering.



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Dr. Sudhakar S. Shetty

*Senior Technical Fellow
Network and Wireless Systems
The Boeing Company*

Sudhakar Shetty is a Senior Technical Fellow for network and wireless systems at the Boeing company. In this role, Sudhakar is responsible for technology strategy, research, and development of Network and wireless systems for Boeing commercial airplanes. Sudhakar was instrumental in the development of wireless systems in 787. Sudhakar established an Aerospace Network Research Consortium (ANRC) in India, first of its kind in India with four partners. Sudhakar helped develop more than 8 industry standards for aerospace networks which earned him a prestigious outstanding contribution award called the “Volare Award”. He was instrumental in establishing 4 research projects in China with 4 Chinese universities. He initiated and directed 5 US University projects with 4 different universities in the US.

Sudhakar has more than 33 years of experience in research, and technology development in Network and Wireless Systems. More than 19 years of that is with Boeing, where he has worked on research, design, and development of onboard systems and networks. He currently leads the development of Boeing Commercial Airplanes Network Centric Operations (NCO) vision, strategy, and the architecture, encompassing the entire commercial airplane ecosystem worldwide. In 2006 he rallied an entire onboard entertainment industry to develop new architectures and content standards for commercial airplanes. In 2008 he was appointed as the Senior technical Fellow, the highest honor an employee can receive in the Boeing Company for technical achievements.

He was the past president of “Indian Association of Western Washington”, the largest cultural and social non-profit organization for Indo-American community in Western Washington. Currently he serves on the Board of Directors of a non-profit group called the “Indo-American Friendship Forum”, that focuses on trade and political educational activities for the Indo-American community.

He earned his BE in Electronics & Communications from Mysore University, India, and his Ph. D from Vanderbilt University. He is married with 3 children. He is an avid sportsman who spends most of his spare time playing tennis, golf, and table tennis.



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National Engineers Week 2010

Dr. Ying Sun

*Distinguished Research Fellow
Internal Venture
Johnson & Johnson*



Ying Sun is a J&J Distinguished Research Fellow, and Science Leader of an Internal Venture of Johnson & Johnson Development Corporation, and Johnson & Johnson Consumer Products Worldwide at Skillman, New Jersey. In that role, Ying leads a group of scientists and engineers to investigate the fundamental science of bioelectricity and its applications in medical fields and consumer products, and to develop a bioelectricity-based proprietary technology platform as growth engine for Johnson & Johnson.

During his 18 years at Johnson & Johnson, Ying developed a number of proprietary technologies on novel therapeutic treatments and drug delivery systems with significant business contribution. Ying is the inventor of 26 U.S. patents and over a hundred U.S. and foreign patent applications on bioelectricity-based treatment methods and compositions, topical formulations for various dermatologic conditions and women's health products, nail drug penetration enhancers for treating nail fungal infections, and transdermal delivery enhancement of protein and polypeptide drugs. He has authored and co-authored 6 book chapters and many scientific papers.

Ying earned his Ph.D. degree in pharmaceuticals from Rutgers University. Prior to joining Johnson & Johnson, Ying was an Assistant Professor at the School of Pharmacy, Memorial University of Newfoundland in Canada after working for Pennwalt Corporation on sustained drug release technology. Ying has a B.S. degree in chemistry from Nanjing University in China, and a M.Sc. degree in Clay physical chemistry from Purdue University.

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2010 National Engineers Week



Dr. F. Dong Tan

*Center Staff Manager
and Distinguished Engineer
Northrop Grumman Corporation*

F. Dong Tan is Center Staff Manager and Distinguished Engineer within Mixed-Signal & Power Center at NGAS. He is also product champion for both control electronics and power converters with campus-wide responsibilities for product strategy and cost reduction. Dong has a unique combination of strong leadership and technical skills.

As a department manager, he launch the laser control electronics organization and was recognized for “outstanding functional management performance” in 2003 by the Division General Manager. As a deputy program manager for TS21, he led the team delivered the power processing unit with tight schedule and cost constraints. The propulsion subsystem earned an outstanding achievement award at Joint ArmyNavy NASA and Air Force Propulsion Conference in 2007, for “exceptional on-orbit performance for one of a kind, all-USmade space propulsion system.”

Dong is the Lead for the sector’s Asian Pacific American Professional Development Community of Practice and among the first recipients of the company’s inaugural Asian American Achievement Award in the category of “Emerging Leader.”

Dong is a campus-wide technical resource for critical “tiger teams” to solve the company’s most difficult problems. His technologies have enabled the company’s standard product line power converters used for all major programs across the campus. He has served as the principle investigator for numerous IRAD/CRAD programs. Most recently, his team on the Government’s Director Innovation Initiative on Near Adiabatic Point-of-Load Converters achieved a world record efficiency of 99% at 3.3V.

He was Chair of the Joint IEEE and Department of Defense Working Group on Open Systems that developed ANSI/IEEE Std 1515-2000 and ANSI/IEEE Std 1573-2003, both of which are currently being used by the Environmental Protection Agency as standard tests for their Energy Star Program. He frequently presents professional educational seminars in leading conferences.

Dong graduated with distinction from Jiangxi Institute of Technology and holds a PhD from California Institute of Technology, Pasadena, CA. He teaches courses in power electronics at University of California-Irvine both at the undergraduate and graduate levels.

Dong lives in Irvine, CA, with his wife and son. He enjoys hiking, tennis, and visiting national parks..



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National Engineers Week 2010

Shun Peter Tschen

*Branch Chief
Glenn Research Center
NASA*



Asian American
**Engineer
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Peter Tschen currently serves as the Branch Chief of the Manufacturing Engineering and Process Branch in the Manufacturing Division of the Engineering Directorate at NASA Glenn Research Center (GRC). Peter is responsible for developing process design and design modifications for flight hardware fabrication and assembly. As the manufacturing lead for the fabrication of the Upper Stage Simulator (USS) for the Ares I-X (AIX) Project, he successfully demonstrated his leadership by transforming the Manufacturing Division's culture to one based on a system of coordination and control with extensive status reporting, adherence to written procedures, and extensive documentation of work completed that is compliant with AS9100 Standards. The transition he managed was imperative in the Center meeting its key milestones in support of the Agency's Constellation Program and a successful launch of the Ares I-X flight vehicle in October, 2009.

With over 23 years of aerospace experience, Peter has had a diverse set of experiences as an aerospace engineer, project scientist, project manager, international program specialist, program analyst, and branch chief, and has supported numerous NASA aeronautics and space flight programs. Peter joined NASA GRC in 1991 after three years at the McDonnell Douglas Aircraft Company (MDAC) in Long Beach, California. During his tenure at MDAC, Peter was a propulsion engineer on a team analyzing flight test data that led to the successful FAA certification of General Electric and Pratt & Whitney's MD-11 aircraft engines. During his almost two decades with NASA, he has made significant contributions in the Office of External Relations and the Office of Program Analysis and Evaluation at NASA Headquarters and the Research and Technology and the Engineering Directorates at NASA GRC. Peter has received many achievement awards throughout his career at NASA, with the most notable being the 2009 NASA Exception Service Medal.

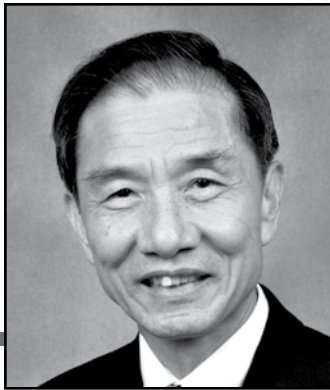
Peter is very involved with community activities both within NASA as well as in the community at large. From 2000-2005, he served as Chair of the Asian Pacific Islander Advisory Group at GRC. In 2001, he initiated the Ohio Chapter of the Federal Asian Pacific American Council (FAPAC), and contacted various federal agencies across Ohio polling their potential interest. Peter obtained donations from federal agencies and private entities to support a scholarship program that funded Asian/Pacific Islander students.

Peter has a master's degree in mechanical engineering from the University of Iowa and a master's degree in marketing and operations management from Case Western Reserve University. He has recently completed all requirements for NASA's Lean Six Sigma Black Belt certification. Peter is married and is the proud father of two boys who currently reside in Arizona. His hobbies include travel, music, and the culinary arts.



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2010 National Engineers Week



Dr. Faa-Ching Wang

Manager

Texas Instruments

For the past 27 years, Faa-Ching Wang, Ph.D. has made exemplary contributions to the engineering profession and semiconductor industry.

As Manager of Texas Instruments' (TI) worldwide printer head business unit, Faa-Ching is currently responsible for the general- worldwide management of the company's printer head integrated circuit business group. His responsibilities cover the full scope of business activities from marketing, customer relationships and new technology/product development to factory manufacturing operation and supply chain management of six factories located around the world.

Some of Faa-Ching's most significant professional contributions include:

- Contributing to the advancement of modern Si integrated circuit wafer manufacturing technology on industry-recognized factory start-up/ramp-up copy exact methodology, high volume/yield low-cost factory operation, and process development of 3.5 advanced technology nodes.
- Contributing to and commercializing the major advancement of high-speed (Ghz range) integrated circuits and energy conversion devices of compound semiconductor with significantly improved material preparation, characterization, and device processing techniques.
- Innovating and demonstrating a new business model leveraging small company practices on a large company platform.

Faa-Ching holds four U.S. patents and three invention disclosures, and is the author of 39 articles published in a variety of technical publications. He is the recipient of several professional and community service awards.

In 1989, Faa-Ching founded the Dallas/Ft. Worth (DFW) chapter of the Chinese Institute of Engineering/USA (CIE/DFW). CIE/DFW is currently the largest and most recognized Asian professional organization in Texas.

In addition to his work for CIE/USA, Faa-Ching served as a Board of Director for the Asian American Citizen Council (AACC) in Dallas from 1999-2001. He is a long-time, avid supporter of the United Way and Juvenile Diabetes Research Foundation (JDRF).

Faa-Ching earned his Ph.D. in Materials Science and Engineering from Stanford University. He received a Master's degree in Physics from the University of Pittsburgh and a Bachelor's degree in Physics from National Central University in Taiwan.

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2009 ASIAN AMERICAN ENGINEER OF THE YEAR AWARD BANQUET



Left Side Image: Dr. An-Yu Kuo (CIE-SFBA), Dr. Satish Reddy (Fluor), Ms. Lora Lin (Northrop-Grumman), Mr. Jayant Patel (Boeing), Dr. Jae H. Kim (Boeing), Dr. Chung Hsu (Genentech), Dr. Chen He (Freescale), Mr. Ray Harishankar (IBM), Dr. Harry Chen (Northrop-Grumman), Dr. Francis Chan (Navy), Mr. David Boyarski (Lockheed-Martin), Professor Roger Tsien (UC San Diego), Dr. Kyung K. Kim (Lockheed-Martin), Rear Admiral John Orzalli (Navy), Dr. Bernard Shung (CIE-SFBA)



2009 AAEOY Award Dinner Banquet



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2010 National Engineers Week



2009 ASIAN AMERICAN ENGINEER OF THE YEAR AWARD BANQUET



Top row: left to right - Dawn Manley (Systems Research and Analysis II Manager), Wen Hsu (Remote Sensing and Energetic Materials Manager), Sidney Lee (NSTS Business Manager), Tammy Strickland (Manager, Engineering Management)

Bottom row: left to right - Paul Nielan (Systems Modeling and Software Engineering Manager), Jacqueline Chen (Distinguished Member of Technical Staff of Reacting Flow Research Department), Paul Hommert (Deputy for Nuclear Weapons VP-Exec), Robert Carling (Transportation Energy Center Director)



left to right, Dr. An-Yu Kuo (CIE-SFBA), Dr. Pat Yang (Genentech), Professor Roger Tsien (UC San Diego), Dr. Bernard Shung (CIE-SFBA)



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2009 ASIAN AMERICAN ENGINEER OF THE YEAR AWARD BANQUET



Left to right, Dr. An-Yu Kuo (CIE-SFB), Dr. Pat Yang (Genentech),
Dr. Chung Hsu (Genentech), Dr. Bernard Shung (CIE-SFB)



Left to right, Dr. An-Yu Kuo (CIE-SFB), Dr. Belle Wei (San Jose State University),
Dr. Jeong Kim (Alcatel-Lucent Bell Labs), Dr. Bernard Shung (CIE-SFB)



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2010 National Engineers Week



EWEEK – National Future City Competition

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



CIE-USA Sponsors a Special Award for the Best Residential Zone in 2010, Winners Cocopah Middle School, Arizona, Presenter (right) - Dr. Jun-Min Liu, CIE-USA Chairman



In an exciting finale to the 2010 National Engineers Week Future City Competition, several teams were invited to join President Obama and Congressional leaders at the White House yesterday, February 17. In a “long distance” video call, the President congratulated astronauts on the International Space Station and the Space Shuttle Endeavour on their successful ongoing mission. The students were also able to interact with the astronauts. After the call the teams were invited into the Oval Office with the President.



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National Engineers Week 2010

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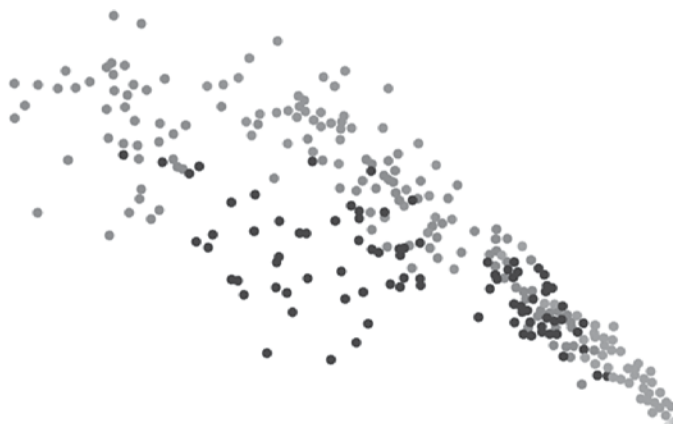
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Engineers
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Awardees



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BP is proud to support the Asian American Engineers Of the Year for their commitment and dedication to the Asian Community.

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Anita Liang
Deputy Director
Facilities and Test Directorate



Peter Tschen
Chief, Manufacturing Engineering
and Processes Branch

2010

The Chinese Institute of Engineers—USA Asian American Engineer of the Year Awards Conference

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NASA Glenn Research Center

Asian-American Engineer of the Year

Peter Tschen
NASA Glenn Research Center



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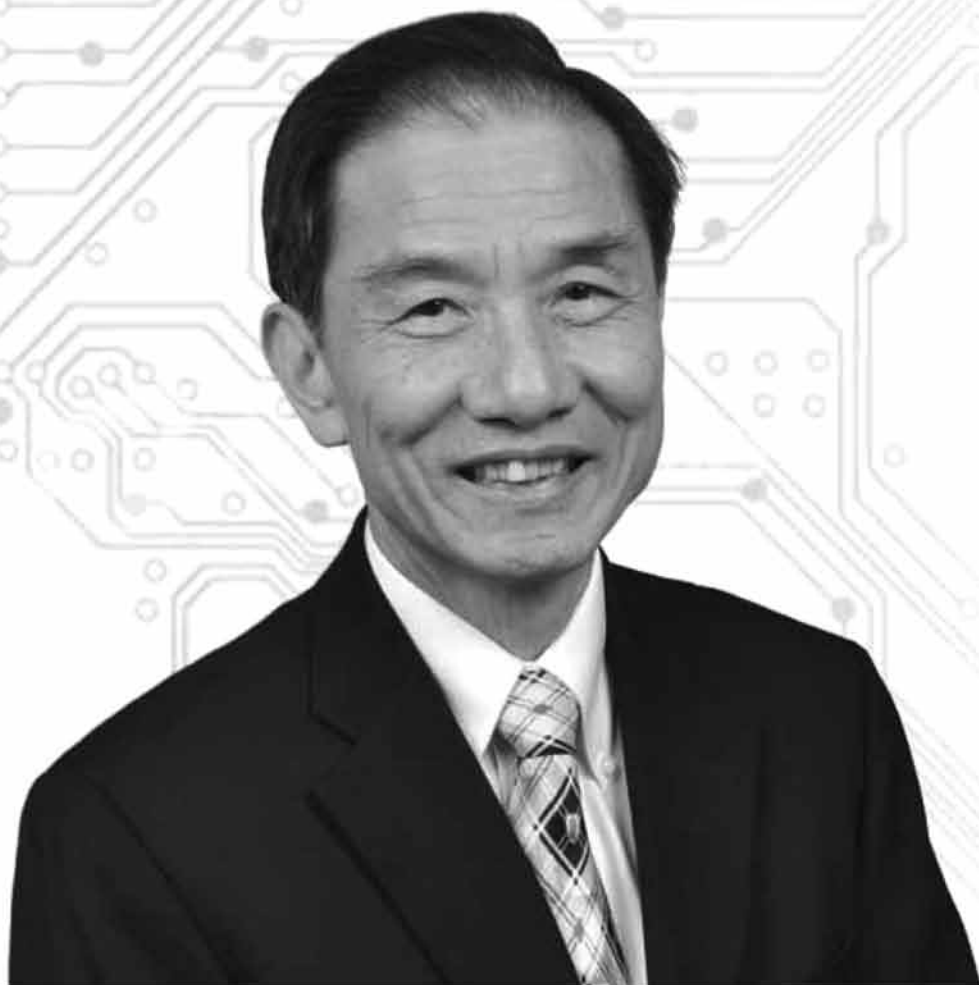
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Sandia National Laboratories



Congratulations

Dr. Faa-Ching Wang

2010 Asian American Engineer of the Year

Manager, Worldwide Printer Head Business Unit

Recognized and honored for his exemplary contributions to the engineering profession and semiconductor industry.

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National Engineers Week 2010

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 American railroads and various industries. On July 15, 1953, the United State chapter was reinstated as an independent entity known as CIE-USA and its activities engaged members from all parts of the united States.

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

Asian American Engineer of the Year (AAEOY) Award

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My Luu	Paul Lin
Web Master	Elven Chern
Kang Xi	Press Release
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Wen Lin	Joseph Liu
Qi Bi	Photographer
Allen Chen	Fred Yan
Kuo-Kuang Hsu	
AAEOY Award Committee	Stage Design
Jun-Min Liu	Marie Pai
Allen Chen	William Pai
May Lee	
Sing Lin	Pre-Award Dinner & VIP Invitation
Flow Control	Kuo-Kuang Hsu
Jun-Min Liu	Kang Xi
Allen Chen	VIP Reception
Jack Peng	Wen Lin
Panel Sessions & Leadership Training	Multimedia
Paul Lin	Bob Chen
Manny Zulueta	Music Coordinator
David Chai	Elven Chern
Shu-Ping Chang	Award Recipient Photo
Howard Chen	Banner Design
Kevin Lu	Kang Xi
Advisors from CIE-USA Chapter	EWeek Coordinator
An-Yu Kuo (CIE/USA-SFB)	Jun-Min Liu
(CIE/USA-DFW)	Chein-Chi Chang



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AAEOY 2010 Program

Morning and Afternoon Program

9:30-11:30 am	Make a Difference through an Engineering Career	Dr. Paul Lin
12:30-2:00 pm	Reaching Out for the American Dream	Dr. David Chai
2:15-3:30 pm	AAEOY Networking and Action	Mr. Manny Zulueta
1:00-3:30 pm	Intern and Employment Opportunities for Engineers	Dr. Shu-Ping Chang
12:30-5:30 pm	Leadership Training (Sponsored by Lockheed Martin Corp. & Provided by LEAP Inc.)	Dr. Howard Chen

Evening Program

4:00-5:45 pm	VIP Reception	Dr. Wen Lin
6:15 pm	Seating/Dinner	
6:20 pm	MC's Welcome	Ms. My Luu
6:25 pm	National Anthem	Ms. Laura Carey
6:35 pm	Award Ceremony Opening Remark	Dr. Jun-Min Liu
6:40 pm	Congratulations Letters	
6:50 pm	Introduce VIP Guests	Dr. Jun-Min Liu
6:55 pm	Technology & Innovation	Mr. David Wu
7:00 pm	Dinner	
7:40 pm	Keynote Speech	Dr. John Tracy
7:55 pm	Award Presentation – Part I	
8:25 pm	Distinguished Science & Technology Award Dr. Shing-Tung Yau	Dr. Deane Yang
8:35 pm	Award Presentation – part II	
9:10 pm	Distinguished Lifetime Achievement Award Dr. Arun Netravali	Mr. Don Hirsch
9:20 pm	Award Presentation – part III	
9:55 pm	Distinguished Science & Technology Award Dr. Charles Kao	Dr. Tsong-Ho Wu
10: 05 pm	Closing Remark	Dr. Allen Chen
10: 10 pm	Thanks for AAEOY 2009 Organizers	Dr. Jun-Min Liu
10: 15 pm	AAEOY 2011 Announcement	