



National Engineers Week Committees

~ BANQUET COMMITTEE ~

Marek Barylak, Kenneth Davis, Sonja Domazet,
Paul Gill, Stephen Guine, Kevin Knudsen, Paul Landry,
Noelle Saccaccio, Eli Stiny, Robert B. Tarn, Jackie Zev

~ HONORS & AWARDS COMMITTEE ~

Marek Barylak, Kenneth Davis, Paul Gill,
Stephen Guine, Kevin Knudsen, Paul Landry,
Robert B. Tarn, Sonja Domazet

~ AWARDS ASSEMBLY ~

Marek Barylak, Kenneth Davis,
Sonja Domazet, Paul Gill, Noelle Saccaccio,
Robert B. Tarn, Jackie Zev, Marc Zev

~ HOSTESSES ~

Olivia Landry, Noelle Saccaccio

~ SOUVENIR PROGRAM GRAPHICS & DESIGN ~

Paul Landry

~ AWARD PRODUCTION ~

Paul Gill

~ AUDIO / VIDEO ~

PSAV Audio Visuals, Christopher Landry

~ PHOTOGRAPHERS~

Daniel Perales, Gene Yano

~ BANQUET SETUP / AWARDS DISTRIBUTION ~

Anahita Khadem, Julia Barylak

~ PROGRAM COVER DESIGN ~

Sonja Domazet, Maxwell Stiny
Photographs credit: NASA online gallery

~ DISTINGUISHED ARTWORKS ARTWORK DESIGNER ~

Tatjana Odovic

Engineers' Council Past Presidents

1970 William B. Johnson	1993 Lloyd W. Higginbotham, FIAE	2007 Paul F. Landry
1980 Clifford B. Shiepe, PE	1994 Lloyd W. Higginbotham, FIAE	2008 Patrick Berbon
1981 Clifford B. Shiepe, PE	1995 Lloyd W. Higginbotham, FIAE	2009 Dr. Charles H. Volk
1982 Lloyd W. Higginbotham, FIAE	1996 Lloyd W. Higginbotham, FIAE	2010 Dr. Charles H. Volk
1983 William F. Hassel, PE, FIAE	1997 Lloyd W. Higginbotham, FIAE	2011 Kenneth G. Davis
1984 Clifford Terry	1998 Lloyd W. Higginbotham, FIAE	2012 Kenneth G. Davis
1985 Roland V. Roggero	1999 Lloyd W. Higginbotham, FIAE	2013 Sonja Domazet
1986 James P. Ritchey	2000 Lloyd W. Higginbotham, FIAE	2014 Sonja Domazet
1987 James P. Ritchey	2001 Lloyd W. Higginbotham, FIAE	2015 Sonja Domazet
1988 Harlan L. Russ	2002 Lloyd W. Higginbotham, FIAE	2016 Sonja Domazet
1989 Dr. A. F. Ratcliffe	2003 Robert B. Tarn	2017 Sonja Domazet
1990 Dr. A. F. Ratcliffe	2004 Robert B. Tarn	2018 Sonja Domazet
1991 Robert Budica	2005 Robert B. Tarn	2019 Sonja Domazet
1992 Robert Budica	2006 Paul F. Landry	



The Engineers' Council
Universal City, California

64th Annual
Honors & Awards Banquet

Saturday, February 23, 2019



Welcome & Introductions – 6:00 p.m.

Master of Ceremonies
Stephen Guine

Dinner

Council President
Sonja Domazet

Presenters

Kenneth Davis
James Dorell
Rudy Duran
Norm Eng
Kevin Knudsen
Azad M. Madni, Ph.D.
Noelle Saccoccio
Dana Speece
Eli G. Stiny
Thomas Tarn
Daniel Tazartes
S. Ling Wu
Jackie Zev, Ph.D.

Closing
Sonja Domazet



The Engineers' Council

Board of Directors



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Sonja Domazet

Vice President

Stephen Guine

Treasurer

Marek Z. Barylak, Ph.D.

Secretary

Eli G. Stiny

Trustees

Robert J. Budica, Ph.D., Kenneth G. Davis, Paul F. Landry,
A. F. Ratcliffe, Ph.D., Robert B. Tarn, Charles H. Volk, Ph.D.

Directors-at-Large

Larry Dalton, Paul Gill, Jerry Kram,
Rudy Montalvo, Jackie Zev, Ph.D.



FUTURE TECHNOLOGY LEADER AWARDS

Laura Radek
Aerojet Rocketdyne
Los Angeles, California



For dedication and excellence in rocket engine and spacecraft engineering benefiting our national security.

Daniel Washington
Northrop Grumman Mission Systems
Woodland Hills, California



For knowledge, ability, professionalism, determination and a calming and respectful personality which are characteristics of a strong leader.

Devon Jedamski
Northrop Grumman Aerospace Systems
Redondo Beach, California



For leadership in turbine engine technology development and contributions to the Northrop Grumman vehicle design teams.

Valerie Ehimhen
Northrop Grumman Mission Systems
Woodland Hills, California



In recognition of distinguished INS and IMU evaluation efforts and dedication to supporting the mission of delivering superior performance and quality.

Andrew Dorsey
The Boeing Company
Long Beach, California



In recognition of outstanding technical contributions and leadership in the area of advanced airplane concepts and disruptive mobility.

Collin O'Fallon
412th Test Wing, United States Air Force
Edwards AFB, California



For conducting test and evaluation of the F-35 weapon systems, most importantly the GBU-12, which was successfully employed in combat for the first time this year.



FUTURE TECHNOLOGY LEADER AWARDS

Stephen Bethel

Lockheed Martin Aeronautics
Palmdale, California



In recognition of outstanding accomplishments in the Conceptual Design of new air vehicle concepts supporting our customer's critical mission requirements.

Dr. Loan Le

Northrop Grumman Aerospace Systems
Redondo Beach, California



For technical excellence and visionary leadership, as demonstrated by founding an innovative, impactful research portfolio in engineered quantum materials for infrared integrated photonics.

Dr. Chris Phelps

Northrop Grumman Mission Systems
Woodland Hills, California



For outstanding technical leadership and innovation in data analytics, computer vision, statistical analysis, artificial intelligence, and machine learning for data exploitation.

Dr. Christoph Schaal

California State University, Northridge
Northridge, California



For the design, development, and implementation of innovative laboratory experiments in the fields of ultrasonics, nondestructive testing, bioengineering and composites.

Rodrigo Soltero

Carpenter Technology Corporation
Camarillo, California



In recognition of demonstrated technical and professional excellence in the field of metal additive manufacturing and for clear dedication to the corporate core values of performance and collaboration.

Sarah Dimonte

Northrop Grumman Mission Systems
Woodland Hills, California



For impressive accomplishments both technically and in Employee Resource Groups.



FUTURE TECHNOLOGY LEADER AWARDS

Justin De Castro
Aerojet Rocketdyne
Los Angeles, California



For exceptional contributions as Test Lead for the successful AR-22 “10 Tests in 10 Days” hot fire test series and for on-going test support on the RS-25 engine test program.

Christopher Miller
Northrop Grumman Mission Systems
Woodland Hills, California



For outstanding contributions in support of Software Engineering for the development and test of safety critical software and Digital Technologies in the development of logic-ware and time critical failure analysis.

Nicole Hastings
The Boeing Company
El Segundo, California



In recognition of outstanding engineering work and technical leadership and for providing difficult technical solutions on programs such as Commercial Crew and International Space Station.

Rachel Schultz
Northrop Grumman Aerospace Systems
San Diego, California



For excellent contributions to Tactical Autonomous Systems for Avionics, and also for inspired leadership of the NGAS Flight Critical Avionics Community of Practice.

Dr. Niloufar Esfandi
Northrop Grumman Mission Systems
Woodland Hills, California



For changing how we simulate inertial navigation system behavior by refining and making accessible a highly complex in-house simulation tool.

Nick Fabry
Aerojet Rocketdyne
Los Angeles, California



For outstanding technical leadership designing and developing the next-generation Aerojet Rocketdyne liquid rocket engine thrust chamber meeting our demanding customer expectations for performance, reliability, and cost.



OUTSTANDING ENGINEERING ACHIEVEMENT MERIT AWARDS

Xavier Diaz
Aerojet Rocketdyne
Los Angeles, California



For outstanding THAAD DACS engineering support to assembly, on-time delivery, and post-delivery field support.

Ted Meseck
Lockheed Martin Aeronautics
Fort Worth, Texas



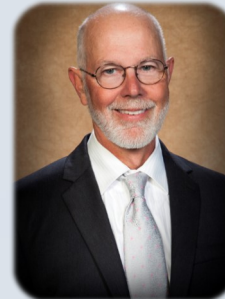
For technical leadership excellence in development of the transformational ARES aircraft thru Ground and Flight Test.

Dr. Jeffrey Yang
Northrop Grumman Aerospace Systems
Redondo Beach, California



For outstanding engineering achievements in the creation of integrated phased-array based communication terminals for air and space applications.

Mac Frey
Aerojet Rocketdyne
Los Angeles, California



For outstanding contributions designing and developing the next-generation Aerojet Rocketdyne nozzles and combustion chambers that meet our demanding customer expectations for performance, reliability, and cost.

Mathew Cosgrove
Northrop Grumman Mission Systems
Woodland Hills, California



For outstanding accomplishment in the development and implementation of software defined architectures for GNSS applications, and for excellence in problem solving and a passion for engineering, inspiring his team.



DISTINGUISHED ENGINEERING PROJECT ACHIEVEMENT AWARDS

RS-25 Main Injector Inertia Weld Improvement

Aerojet Rocketdyne
Los Angeles, California



Description of Project:

For successfully improving the inertia weld process through torque modulation resulting in improved quality and affordability of the RS-25 engine.

Accepting the Project Award
Mohamed Elnaggar

Team Members

K. C. Majewski
Steven Minar
Earl Noteboom

ADP Work Experience Program

Lockheed Martin Aeronautics
Palmdale, California



Description of Project:

For teaching and mentoring engineering-focused high schoolers, and for developing a program that encourages young people to be excited about engineering.

Accepting the Project Award
Wesley Tanis

Team Members

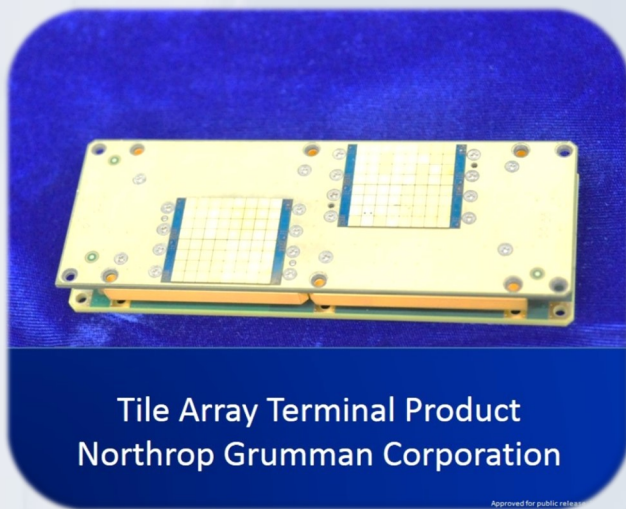
Samantha Bishamber Patrick Clark
Devin Justice Michelle Koziol
Mason Levy Wesley Miller
K. Michael Mull Michael O'Sullivan
Claudine Phaire Lauren Powers
Jaclyn Ray Christopher Reynolds
Lance Wyndon



DISTINGUISHED ENGINEERING PROJECT ACHIEVEMENT AWARDS

Thin Tile Array Common Product Project

Northrop Grumman Aerospace Systems
Redondo Beach, California



Tile Array Terminal Product
Northrop Grumman Corporation

Description of Project:

In recognition of the Northrop Grumman Corporation's Thin Tile Array Product Line team in realizing a successful family of products for ultra low size, weight, and power integrated communication terminals.

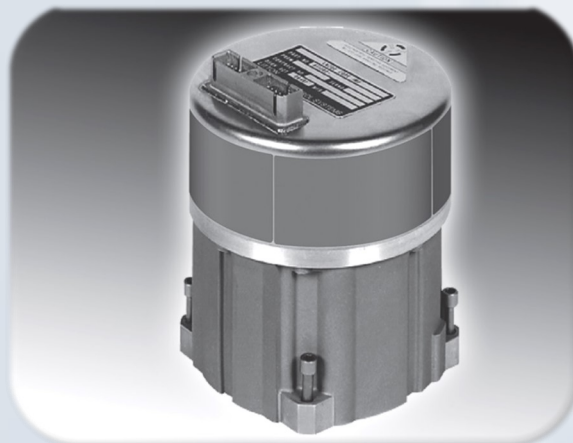
Accepting the Project Award
Jeffrey Yang

Team Members

- | | |
|------------------|--------------------------|
| Tom Azallion | Yun Chung |
| Ed Divish | Dino Ferizovic |
| Brian Garone | Augusto Gutierrez-Aitken |
| Ronald Kacmarcik | Kevin Leong |
| Steven Mass | Matthew McNicholas |
| Paul Purdon | Brandon Quon |
| Don Rose | Monte Watanabe |

LN200C Advanced Fire Control System

Northrop Grumman Mission Systems
Woodland Hills, California



Description of Project:

For commitment to excellence in qualifying an EAR controlled variant of the LN200C, providing a solution for international users and positioning Northrop Grumman to maintain and grow our market share.

Accepting the Project Award
Cynthia Davis

Team Members

- | | |
|-----------------|---------------------|
| Tony Assily | Robert Bamerio |
| Sonja Domazet | Christian Dominguez |
| Valerie Ehimhen | Chloe McClellan |
| David Santiago | Daniel Wiener |
| | Sharareh Zamani |



DISTINGUISHED ENGINEERING PROJECT ACHIEVEMENT AWARDS

Gray Diamond

The Boeing Company
North Charleston, South Carolina



Description of Project:

For engineering excellence in developing and implementing the Gray Diamond automated 3D model-based engineering measurement system for airplane manufacturing and assembly and exemplifying the Boeing Engineering Code.

Accepting the Project Award
Christopher Greer

Team Members

- Julia Anderson-Lee
- Jonathan Cox
- Peter Fanto
- Constantin Lazar
- Ben Rennison

Commercial Aircraft System Integration Labs Relocation

The Boeing Company
Long Beach, California



Description of Project:

In recognition of achieving first time quality, on schedule, and on budget while not impacting current program execution.

Accepting the Project Award
Ernest Rivera

Team Members

- Douglas Bell
- Davis Bui
- Hung Dao
- Edward Jun
- Trung Le



ENGINEERING POSSIBILITIES.



Every great design begins with a great idea. Boeing is proud to stand alongside those who engineer ideas that change the world.





The Boeing Company

Leadership in Engineering Award

To

Mark Jenks

Vice President, New Mid-Market Airplane Program
The Boeing Company
Tukwila, Washington



Presented by

Rudy Duran

Director of Engineering,
Boeing Commercial Airplanes
Southern California Design Center
The Boeing Company
Long Beach, California

Mr. Mark Jenks is vice president of the New Mid-Market Airplane (NMA) program at Boeing Commercial Airplanes. In this role he leads all aspects of the development program ranging from the business case to the definition of the production system, services offering and airplane configuration.

He served in a variety of 787 program leadership roles ultimately serving as vice president and general manager of the program. He led team that designed, built and delivered the 787 Dreamliner family of airplanes, including the derivatives. He earned a reputation as a thoughtful, forward-looking leader who valued the diversity in addressing challenges. He is known as a technical expert who works with customers, suppliers and employees to prioritize opportunities, increase efficiencies and meet demanding requirements.

Mark Jenks is receiving this award in recognition of distinguished technical and leadership contributions to the aerospace industry, as well as an unwavering commitment to diversity, inclusion and inspiring the next generation of engineers

The Boeing Award for Leadership in Engineering was inaugurated in Boeing's centennial year to recognize those who exhibit the same pioneering spirit and leadership vision of the founders of Boeing's heritage businesses that propelled Boeing through its first 100 years: William Boeing, James McDonnell, Donald Douglas, Howard Hughes and Dutch Kindelberger. The award recognizes those leaders who exemplify the vision, drive and determination to shape technology and the aerospace industry in a way that will continue to advance the art of Engineering into the next 100 years. Those recognized have made major contributions to the field of engineering, leadership of engineering programs, or other significant contributions to the engineering profession while demonstrating an ability to inspire others to make significant and major engineering contributions. The award recipients consistently model and demonstrate The Boeing Engineering Code ideals and

Past Recipients

2016 Dr. John J. Tracy

2018 Kristin A. Robertson

2017 Dr. Robert H. Liebeck



THE ENGINEERS' COUNCIL

A Brief History

The Engineers' Council was founded in 1955 as the "San Fernando Valley Engineers' Council" through the efforts of the California Society of Professional Engineers, the American Institute of Plant Engineers, the Society of Manufacturing Engineers, and the Institute of Electrical and Electronics Engineers. A few years before, Congress had established National Engineers Week to recognize the valuable contributions of engineers to the country. In the years after its founding, the San Fernando Valley Engineers Council's annual joint meeting of its member societies grew into the largest annual honors and awards banquet celebrating National Engineers Week.

This banquet raises funds for high school and college scholarships along with activities to attract young people to the engineering field. The banquet also honors professionals whose accomplishments warrant recognition by their peers.

In 1959, Roy E. Marquardt, one of the most respected engineers in the San Fernando Valley was named the first Engineer of the Year. His accomplishments and technical innovations became a benchmark to measure all future candidates for this most prestigious honor. In 1969 Ed Reineke was selected as the first Honorary Engineer of the Year. Since then, a long list of nationally renowned individuals has proudly received this award.

The Peter Recchia Omni Award was created in 1973. This perpetual trophy is named for Mr. Peter Recchia, a great supporter of engineering in our community and designer of the trophy which is presented annually to the Engineer of the Year.

In 1987, Brigadier General Charles E. "Chuck" Yeager lent his name to the San Fernando Valley Engineers' Council, which has since annually presented the Brigadier General Charles E. "Chuck" Yeager International Aeronautical Achievements Award to the individual who, with the general's concurrence, has attained historically outstanding achievement in the field of aeronautical flight test and engineering.

In February 1992, the Advanced Development Programs of Lockheed Martin Aeronautics Company granted the Engineers Council the privilege of using both service marks "Skunk Works" and the stylized "Skunk" in our Clarence L. "Kelly" Johnson Skunk Works Award. In 2006 and 2007, the council developed the Jack Northrop and Robert H. Goddard awards in cooperation with Northrop Grumman Corporation and Pratt & Whitney Rocketdyne.

In 2010, the Council partnered with Florida sections of AIAA and ASME, and the Business Development Board of Palm Beach, to jointly sponsor and launch a National E-Week honors and awards banquet in West Palm Beach Florida. The Florida banquet has become a well-established and recognized awards event for the east coast.

In 2016, the Boeing Engineering Leadership Award was developed to recognize those who continue the pioneering spirit of aerospace industry founders, by applying the kind of engineering excellence that will propel Boeing into its second century. The recipient recognized has made major contributions to the field of engineering, leadership of engineering programs, or other significant contributions to the engineering profession and has demonstrated an ability to inspire others to make similar contributions. In 2016, the Council has also added the Future Technology Leader awards. With these awards, the Engineers' Council recognizes early career professionals who have achieved significant accomplishments in a particular area of engineering activity within the first five years of their career.

In 2019 the Council, in collaboration with the American Society for Quality (ASQ), has added the Quality Engineering of the Year award which recognizes individuals who have achieved significant career accomplishments in the field of quality engineering. In 2019, the Council also updated artwork for its Distinguished Awards.

Through the years, the Engineers' Council has presented thousands of awards recognizing the excellence demonstrated by individuals in our community and throughout the world in the fields of engineering, education, special fields of work, and public service. At the same time, scholarships and other charitable activities have continually inspired and attracted those new engineers who will go on to exceed the work of those engineers who have come before them.



OUTSTANDING ENGINEERING ACHIEVEMENT MERIT AWARDS

Daniel Cap
Aerojet Rocketdyne
Los Angeles, California



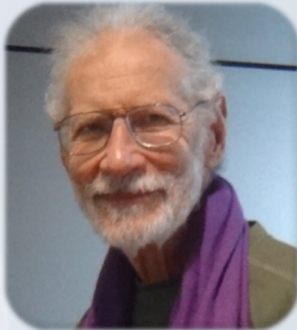
For outstanding design leadership in the area of Selective Laser Melting and AR1 Injector Design.

Jennifer Maggard
Lockheed Martin Aeronautics
Palmdale, California



For the leadership and development of the Multi-Domain Operation Vision for Lockheed Martin Aeronautics and positioning Lockheed Martin as a thought leader in this area.

John Douglass
Northrop Grumman Mission Systems
Woodland Hills, California



In recognition of receiving a Patent Award for Performance Optimization of a Capacitance-based Motion Sensor and a Patent Award for Radiation Hardened Sensor for SIFR Pickoff.

Dr. Douglas Orellana
SAIC
El Segundo, California



For making an important contribution to model-based systems engineering by extending current MBSE capabilities to incorporate a model-based approach to Human-Systems Integration.

Gregory Levin
Northrop Grumman Mission Systems
Woodland Hills, California



For the high level of technical leadership and expertise on a strategic inertial guidance system development program.

Brody Buccellato
Lockheed Martin Aeronautics
Palmdale, California



In recognition of outstanding technical achievement in the design and development of innovative radome and antenna technologies for air vehicle platforms



2018 National Engineers Week Honorees

Your participation enables us to further our mission, to promote science and engineering careers, provide educational enrichment in science and engineering, and recognize student achievement in the art and science of engineering for the general welfare of humankind.

412th Test Wing, United States Air Force	American Society for Quality	Aerojet Rocketdyne
Aerospace Corporation	California State University, Northridge	Carpenter Technology Corporation
Castheon Inc	Lockheed Martin Aeronautics	Northrop Grumman Aerospace Systems
Northrop Grumman Mission Systems	SAIC	The Boeing Company
University of California , Davis	University of Southern California (USC)	University of California , Riverside

Thank You, Engineers' Week Participants



John J. Guarrera

Engineering Educator of the Year Award

To

Dr. Kawai Tam

Professor
University of California, Riverside



Presented by

Dr. Cengiz S. Ozkan

Professor
University of California, Riverside

She is an outstanding engineering educator whose work has been recognized with the Chancellor’s Award for Excellence in Undergraduate Research and Creative Achievement at UC Riverside (2018), the Bourns College of Engineering Outstanding Lecturer Award at UCR (2018), the Orange County Engineering Council Outstanding Engineering Educator Award (2015) and the Western Municipal Water District’s Water Educator of the Year Award (2007). She has successfully increased retention of first-year Chemical and Environmental Engineering students to ~90% - a particularly significant accomplishment. She is also the faculty advisor for the Engineers Without Borders (EWB) UCR student chapter and has worked with students to develop simple and sustainable technology applicable for developing countries. Her guidance, encouragement and training to her students enables them to realize their potential. She is extraordinary in her dedication in the preparation of the next generation engineers to make a positive impact in the world.

The Engineering Educator of the Year Award is given in recognition of significant achievements by a professor in the successful involvement of students in learning, research and in the application of science and mathematics to the solution of problems in engineering design or theory.

Recognition of a top educator began in 1982, with the “Education Achievements Award.” In 1985, the top educator award was renamed the “Distinguished Education Achievements Award”, which became the “Distinguished Engineering Education Achievements Award” in 1987. At the National Engineers Week Banquet of 1991, the award became the “Engineering Educator of the Year Award”.

In honor of The Engineers’ Council founding member, this award bestowed upon the top educator was re-named in 2007 the “John J. Guarrera Engineering Educator of the Year Award.”

Past Recipients

1982	Dr. Alfonso F. Ratcliffe	1995	Dr. Sembian R. Rengarajan	2008	Dr. Behzad Bavarian
1983	Dr. Robert Y. Wong	1996	Dr. Roger Di Julio	2009	Dr. Chi-Tsen Lin
1984	Dr. Edmond S. Gillespie	1997	Dr. Martin S. Roden	2010	Dr. Hamid Johari
1985	Dr. Thelma Estrin	1998	Dr. Ramin Roosta	2011	Dr. Melvin A. Breuer
1986	Dr. Gregg W. Dixon	2000	Dr. Helen A. Ryaciotaki-Boussalis	2012	Dr. S. K. Ramesh
1987	Dr. Michael A. Melkanoff, P.E.	2001	Dr. Sharlene Katz	2013	Dr. Vijay K. Dhir
1988	Dr. Diane Schwartz	2002	Dr. Stewart Prince	2014	Dr. Mau-Chung F. Chang
1989	Dr. Larry Lichten	2003	Dr. Nagwa Bekir	2015	Dr. Alan N. Willson, Jr.
1991	Dr. B. J. Shell	2004	Tarek A. Shraibati	2016	Dr. William J. Kaiser
1992	Dr. Mihran S. Agbabian	2005	Dr. Robert G. Ryan	2017	Dr. Azad M Madni
1993	Dr. Michael Hassul	2006	Dr. Mihri Ozkan	2018	Dr. Cengiz S. Ozkan
1994	Dr. John W. Adams	2007	Dr. Diane Schwartz		



Aerojet Rocketdyne
Congratulates
all 2019
National Engineers
Week Honorees



WAIT TILL YOU SEE
WHAT WE DO NEXT

www.rocket.com





DISTINGUISHED ENGINEERING PROJECT ACHIEVEMENT AWARDS

RS-25 All SLM HPFTP Discharge Duct

Aerojet Rocketdyne
Los Angeles, California



Description of Project:

In recognition of successful development of the first high pressure rigid duct fabricated completely by additive manufacturing selective laser melting.

Accepting the Project Award
Kevin Quintero

Team Members

Mary Kalayjian
Brian Donnelly
Steven Brannon

AR-22 Ten Tests in Ten Days Demonstration

Aerojet Rocketdyne
Los Angeles, California



Description of Project:

For shattering the record books by testing the AR-22 rocket ten times in ten days, and for proving rapid access to space is achievable, laying the groundwork for the Experimental Spaceplane.

Accepting the Project Award
Michael Bradley

Team Members

Justin De Castro
Josephine Kao
Don La Rosa
Timothy Lawler
Julie Smith
Tao Yu
Peter Schilhavy
Leana Osmer



DISTINGUISHED ENGINEERING PROJECT ACHIEVEMENT AWARDS

F-35 Joint Strike Fighter Weapons Integration Team

412th Test Wing , United States Air Force
Edwards AFB California



Description of Project:

For excellence in conducting ground breaking test and evaluation of the entire suite of sensors and complex weapons to prove lethality against enemy targets that was proven in combat in 2018.

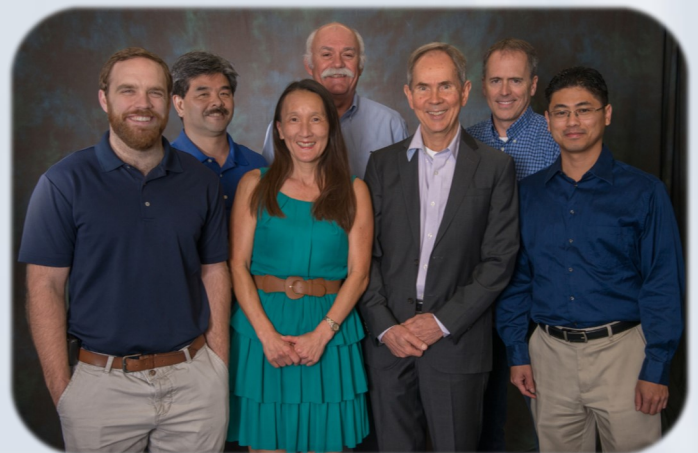
Accepting the Project Award
Christopher Valentino

Team Members

Rob Arias	Gabriel DaCruz
Gerald Eusebio	Torrey Given
James Harris	Max Heald
Dustin Malcolm	Collin O'Fallon
Kevin Peck	James Pelegrin
Wendy Peterson	

Computational Electromagnetics Prediction Code / High Performance Computing Optimization

Northrop Grumman Aerospace Systems
Redondo Beach, California



Description of Project:

For improvement of our Next Generation Computational Electromagnetics Prediction Codes and High Performance Computing capability to where we have demonstrated a factor of 6 speed-up on a benchmark target.

Accepting the Project Award
George Antilla

Team Members

Jason Chen
Michael Chrzan
Randy Doyle
Zev Finnley
Irene Hsai
Todd Shimoda
Kevin Smith



DISTINGUISHED ENGINEERING PROJECT ACHIEVEMENT AWARDS

Video Processor Yield Improvement

Northrop Grumman Mission Systems
Woodland Hills, California



Description of Project:

For resolving conflicting intermittent tolerance issues utilizing architectural and logic improvements that mitigated the cost of implementation and resulted in outstanding yields.

Accepting the Project Award
Richard Card

Team Members

Dan Church
Evan Dickson
Ron Fryer
Bretton Gines
Bodie Holmes
Michael Insalaco
Thomas Loo
Ronald Salt
Jonathan Trow

Boeing El Segundo Satellite Virtualization

The Boeing Company
El Segundo, California



Description of Project:

For exceptional performance in making single source engineering a reality in a highly dynamic, ever evolving engineering environment.

Accepting the Project Award
Albert Portillo

Team Members

Alex Chao
Thanh Duong
Randy Krohn
Roland Mah
Dung Phan



CONGRATULATIONS!

CONGRATULATIONS DISTINGUISHED FACULTY AND ALL
2019 National Engineers Week Honorees!

DR. SEMBIAM RENGARAJAN



OUTSTANDING
ENGINEERING ACHIEVEMENT
MERIT AWARD

DR. CHRISTOPH SCHAAL



FUTURE
TECHNOLOGY
LEADER AWARD

CSUN[®]

COLLEGE OF
**ENGINEERING AND
COMPUTER SCIENCE**

2019

Western States Regional Conference

*Systems Engineering Relevance:
Time for a Sea Change!*

13-15 September 2019

Los Angeles, California

Panels, Presentations and Tutorials
Covering Leading Systems Engineering
Issues and Applications

Held on the beautiful campus of
Loyola Marymount University

For the latest information and details as they come on line:

<https://www.incose.org/wsrc2019>

Hosted by the Los Angeles Chapter of the International Council
on Systems Engineering, in collaboration with chapters through-
out the western United States





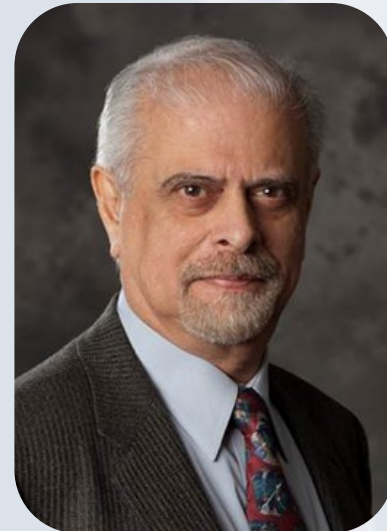
William B. Johnson International Inter-Professional Founders Award

To
Dr. Azad Z. Madni

Professor, Astronautics
Director, Systems Architecting and Engineering Program
University of Southern California

Presented by
S. Ling Wu

Senior Staff Engineer, Mechanical
Northrop Grumman Mission Systems
Woodland Hills, California



Dr. Madni is an unique engineering educator, with a non-conventional way of challenging students. He inspires them to make significant and innovative contributions to the field. He facilitates this goal by taking the students through a learning journey in which they are challenged to think critically. He provides them with thinking tools and requisite skills to succeed in solving real-world problems which manifests itself in the form of success in their lives and future careers creating a climate where students from all backgrounds/ethnicities feel supported and encouraged to voice their opinions and share ideas. His key tenet is “everyone is an expert in something; need to capitalize on that.” He gives frequent career counseling lectures to student members of SHPE and NSBE. He is the Founder and Current Chair of IEEE SMC Technical Committee and has been selected to be the Relationship Builder between IEEE SMC and INCOSE. He is a role model for young engineers and exemplifies the qualities of the William B. Johnson International, Inter-professional Founders award and for this is richly deserving of the award.

In 1955 Bill Johnson was one of the founders of the Engineers’ Council. Bill had an untiring commitment to form and build the Council into a unified and effective body representing all facets of the engineering and scientific community. His standards and professional aura were to emulate perfection and elegance.

He was laying the groundwork for the younger generation to participate and enjoy the future in leading and influencing the developing international engineering community. Bill was considered the backbone of the Council. He chose giving recognition to outstanding people as a means of providing a model of excellence.

The William B. Johnson International Inter-Professional Founders Award was established by the San Fernando Valley Engineers’ Council to perpetuate the image and memories of Bill – his leadership, methods, fortitude, standards, efforts and achievements with compassion for others while focusing on bettering the engineering

		Past Recipients			
1982	William B. Johnson	1998	Jim Albaugh	2008	Dr. Sharlene Katz
1990	George J. Hallinan	1999	Sherman N. Mullin	2009	Dr. S. K. Ramesh
1991	John J. Guarrera	2000	James S. Paulsen	2011	Charles Olsefsky
1992	Lloyd W. Higginbotham	2001	Maynard “Joe” Stangeland	2013	Randell E. Surch
1993	Roland V. Roggero	2003	John B. Plowden	2015	S. Ling Wu
1994	Norman Shaffier	2004	Jeffrey S. Kincaid	2016	Michael C. Halbig
1995	Alan R. “Al” Bjorklund	2005	Capt. George T. Mellen II, USAF	2017	Dr. Nagwa E. Bekir
1996	Jack L. Ferrell	2006	Robert B. Tarn		
1997	Byron K. Wood	2007	Richard C. Peters		



DISTINGUISHED ACHIEVEMENT AWARDS

Robert Zmarzlak

Northrop Grumman Aerospace Systems
San Diego, California



For leadership as Chief Engineer for the MQ-4C Triton Broad Area Maritime Surveillance Unmanned Aircraft System, and for contributions to Autonomous Aircraft and Space Systems Programs.

Ricardo Sotura

Northrop Grumman Mission Systems
Woodland Hills, California



For distinguished technical achievement, leadership, and excellence in the architecture, design, development, and test of integrated digital avionics and mission systems equipment for military fixed and rotary-wing aircraft.

Charles Staley

412th Test Wing, United States Air Force
Edwards AFB, California



For overseeing all avionics and weapons integration test/evaluation conducted by 180+ engineers and leading the modernization/fielding on B-52, B-1, B-2, F-15SA, F-16, F-35, F-22, Global Hawk and classified programs.



DISTINGUISHED ACHIEVEMENT AWARDS

Dr. Youping Gao

Castheon
Thousand Oaks, California



In recognition of a career dedicated to the invention and evolution of metal additive manufacturing and for specific achievements in mission critical components produced by additive manufacturing for human spaceflight.

Dr. Subhash Risbud

University of California, Davis
Davis, California



For exceptional contributions to engineering education and research by creating unique learning pathways for students, inspiring women and minority students to pursue projects or industry internships and enhance communication skills.

Dr. Mahta Moghaddam

University of Southern California
Los Angeles, California



For fundamental contributions of novel methods for application of microwaves in environmental sensing and medicine.



PAST RECIPIENTS OF THE ENGINEER OF THE YEAR AWARD

1959	Roy E. Marquardt	1989	Paul H. Lane
1960	Richard Bradshaw	1990	William F. Ezell
1961	Milford G. Childers	1991	Edward G. Linhart
1962	Paul R. Vogt	1992	Sherman N. Mullin
1963	George T. Harness	1993	Robert D. Paster
1964	Ralph Balent	1994	Byron K. Wood
1965	Clarence L. Johnson	1995	Jack S. Gordon
1966	Steven J. Domokos	1996	Ernest Schaeffer
1967	James A. Broadston	1997	Paul B. Smith
1968	Dr. Arnold M. Levine	1998	Anthony Joseph Spear
1969	Willis M. Hawkins	1999	Robert Goetz
1970	Ralph A. Lamm	2000	Dr. Michael E. Polites
1971	Arthur A. Daush, Jr.	2001	Dr. Charles Volk
1972	Dr. R.N. Ghose	2002	Maynard L. "Joe" Stangeland
1973	John J. Guarrera	2003	E.R. "Ed" Glasgow
1974	Elliott H. Green	2004	Norman S. Sakamoto
1975	Mathew C. Ek	2005	Thomas R. Gavin
1976	Sam F. Iacobellis	2006	John B. Plowden
1977	Lon L. Sanders	2007	Thomas W. Blakely
1978	Norman J. Ryker	2008	Jeffrey S. Kincaid
1979	Donald C. Tillman	2009	Frank Flores
1980	Dominick J. Sanchini	2010	Daniel A. Tazartes
1981	Ben R. Rich	2011	Eric D. Knutson
1982	Dr. Paul B. MacCready	2012	James S. Paulsen
1983	Charles G. Fargo	2013	Dennis P. O'Donoghue
1984	Dr. Malcom Currie	2014	Donald D. Wilkes
1985	Phillip V. King	2015	Richard D. Baily
1986	Sophia K. Ashley	2016	Santiago A. Bulnes
1987	Dr. Rodney A. Boudreaux	2017	Dr. George A. Pavlath
1988	George J. Hallinan	2018	Dr. Dale E. Burton



***Engineer of the Year Award
and
Peter Recchia Omni Award***

To

Scott C. Ward

Vice President, Engineering
Aerojet Rocketdyne
El Segundo, California

Presented by

Dan Tazartes

Northrop Grumman Fellow
Northrop Grumman Mission Systems
Woodland Hills, California



Mr. Scott Ward leads Aerojet Rocketdyne's Engineering organization of approximately 1,200 mechanical, electrical, systems, and software engineers. He provides the overall leadership, resource management, project oversight, and technical guidance for the company's engineering activities that drive the development and production of rocket propulsion systems and energetics for defense and aerospace applications. Prior to joining Aerojet Rocketdyne in 2016, he was the director of the Engines & Motors Team at United Launch Alliance (ULA) where he had comprehensive responsibility for managing the full life cycle and value stream integration of all liquid propellant rocket engines and solid propellant rocket motors used in ULA's launch vehicle product lines. His technical leadership, throughout his 32-year career, has helped make significant contributions to the nation's space and defense industries. In his current role as the Vice President of Engineering, he has successfully led Aerojet Rocketdyne's Engineering organization through a challenging transformation into a multi-site, integrated, and effective entity that has significantly improved the company's competitiveness and operational health.

Peter Recchia Omni Award

The movies have their Oscars, the television industry has its Emmy, and The Engineers' Council presents, for the 43rd time, its Engineering Omni Award. This award was first presented in 1973 to the Engineer of the Year, San Fernando Valley. Since then, each succeeding Engineer of the Year has been awarded this beautiful, original trophy conceived, designed, and produced by Peter Recchia, PE, SME, AIEE. Mr. Recchia was a dedicated supporter of the engineering community and when he passed away, the Engineering Omni Award was renamed in his honor, "The Peter Recchia Omni Award."



**2019 National Engineers Week
Honors and Awards Banquet
West Palm Beach, Florida
Thursday, 28 February 2019**

Keynote Speaker

Dan Dumbacher
Executive Director, American Institute of Aeronautics and Astronautics (AIAA)
Topic: "Engineers are People too!"

Lifetime Achievement

Frank Gillete
William B. Johnson International - Inter-Professional Founders Award

Dr. Isaac Elishakoff
John J. Guarrera - Engineering Educator of the Year Award
Dr. Oge Marques

Distinguished Engineering Achievement Award

Joaquin Castro Aerojet Rocketdyne

Distinguished Engineering Educator Award

Dr. Raphael Kampmann, FAMU-FSU
College of Engineering
Florida Atlantic University
Florida Atlantic University
Florida Atlantic University

STEM Educator Award

Dr. Oscar Curet Florida Atlantic University

Distinguished Engineering Project Award

CH-53K King Stallion Degraded Visual Environment Testing	Sikorsky Aircraft; a Lockheed Martin Company
Tamiami Trail Bridge Life Cycle Monitoring	Smart Structures
Autonomous Underwater Vehicle (AUV) Test Program	Lockheed Martin
VH-92A Presidential Helicopter Certification	Sikorsky, A LM Company
Low Mach Mode Transition Team	Aerojet Rocketdyne
E-2D Automatic Dependent Surveillance - Broadcast Out (ADS-B Out)	Northrop Grumman Aerospace Systems
Kennedy Space Center 1.25M Gallon LH2 Storage Facility	BRPH
Dynetics ULA Vulcan Booster Test & Hardware Integration Facility	BRPH

Outstanding Engineering Merit Award

Coy Jordan	Aerojet Rocketdyne
Peter Keith	Aerojet Rocketdyne
Adam Britt	Agilis Engineering, Inc.
Thomas Carlsen	Agilis Engineering, Inc.
Mike Williams	Agilis Engineering, Inc.
Jania Larsen	Agilis Engineering, Inc.
Linda Herman	Belcan Engineering Group
John Paul Springer	Belcan Engineering Group
Mohammed Faisal	Belcan Engineering Group
Gayane Acopian	BRPH
Daniel Quinones	BRPH
Dr. Erik Engeberg	Florida Atlantic University
Dr. Xingquan Zhu	Florida Atlantic University
Brady Drew	Pratt & Whitney
Javier Cue	Pratt & Whitney
Linda O'Flarity	Pratt & Whitney
Christopher Brandwood	Sikorsky Aircraft; a Lockheed Martin Company
Brent Whitfield	Chen Moore and Associates
Dr. Aleksandar Stevanovic	Florida Atlantic University
Aaron Murphy	Aerojet Rocketdyne

Future Technology Leader Award

Oreste Giusti	Aerojet Rocketdyne
Courtney Prothero	Aerojet Rocketdyne
Wayne Frerichs	Agilis Engineering, Inc.
Ryan Mitchell	Agilis Engineering, Inc.
Michael Robbins	Agilis Engineering, Inc.
Jacob Jones	Belcan Engineering Group
Melissa Burns	GHD
Aneesh Goly	Radise International
Noopur Joshi	Sikorsky Aircraft; a Lockheed Martin Company
Skyler Mondell	Sikorsky Aircraft; a Lockheed Martin Company



DISTINGUISHED ENGINEERING PROJECT ACHIEVEMENT AWARDS

MQ-25 Deck Handling Demonstration

Lockheed Martin Aeronautics
Palmdale, California



Description of Project:

For successfully demonstrating a unique approach to controlling an unmanned vehicle on the carrier flight deck under severe time and budget constraints

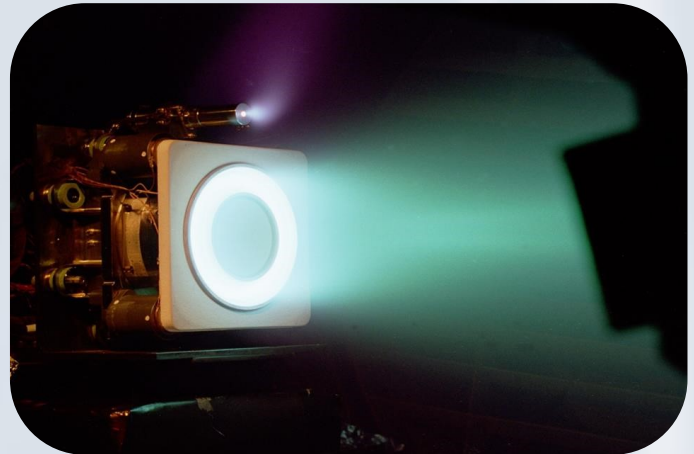
Accepting the Project Award
Veronica Hernandez

.Team Members

- | | |
|---------------------|----------------|
| Alexander Beckner | Shashi Bhushan |
| David Carlile | Mark Dover |
| Christopher Elliott | William Koyama |
| Justin McCarty | Craig Milliard |
| Dan Muggeo | Andrew Olson |
| Andrew Olson | Andrew Petty |
| Michael Robinson | Manmeet Singh |
| Ezra Ward | |

XR-5 Hall Current Thruster Wear Test

Aerojet Rocketdyne
Redmond, Washington



Description of Project:

In recognition of excellent technical rigor, innovation, and perseverance that have thus far resulted in successful life verification for the modified XR-5 Hall Current Thruster.

Accepting the Project Award
Sasha Tenenbaum

Team Members

- Jordan Neuhoff
- Hoang Dao
- Jakob Trescott



DISTINGUISHED ENGINEERING PROJECT ACHIEVEMENT AWARDS

F/A-18E/F Service Life Assessment Program (SLAP/B4 Contract)

Northrop Grumman Aerospace Systems
El Segundo, California



Description of Project:

For excellent dedication to the mission, disciplined planning, and close cooperation with the customer, resulting in the U.S. Navy equipped with essential data for managing the F/A-18 E/F Fleet.

Accepting the Project Award
Adnan Murad

Team Members

Jose Bilderbeck	Qiye Chen
Po Chen	Leo Cosio
Hai Duong	Sean Fox
Moiz Khanqadri	Martha Ledesma-Paz
Betty Leung	Reza Manshahi
David Pai	Matias Piana
Kia Ravanfar	James Wu

Boeing Commercial Airplanes, Southern California, Knowledge Management Culture Initiative

The Boeing Company
Seal Beach, California



Description of Project:

In recognition of your leadership and team efforts to connect, empower, and synergize teams through knowledge reuse and innovation

Accepting the Project Award
Sherif Tewfik

Team Members

Jennie Acosta	Brian Caesar
Anthony Gibbs	Daniel Kaz
Javid Khan	Victor Medina
Rosalinda Meza	Henry Murray
Kevin Ord	Francisco Palacios
Jessica Pummel	Lenny Rodriguez
Paul Tarantino	Michael Tierney



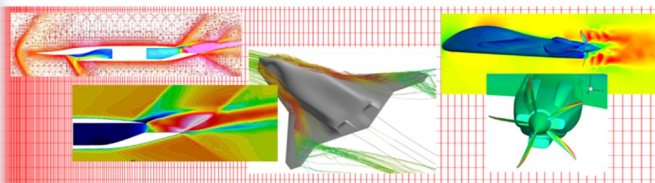
DISTINGUISHED ENGINEERING PROJECT ACHIEVEMENT AWARDS

CFD 20/20 Project

Northrop Grumman Aerospace Systems
Redondo Beach, California

Flight Sciences Department, Computational Fluid Dynamics (CFD)
CFD 20/20 Project

<p>Vision <i>Fast, accurate and reliable CFD for NGC</i></p>	<p>Goal <i>Speed-up CFD analysis 20x by the end of 2020</i></p>
---	--



Topics
*Grid adaptation, shape optimization, data analytics,
Unsteady Rigid Body Motion(RBM), aero-acoustics, design optimization*

Team Members		
Shreekant Agrawal	David Chao	Peter Chun
John W Gallman	Matthew Johnson	Matthew Kapusta
Caesar Pleitez	Steven E Speer	Pichuraman Sundaram

Description of Project:

In recognition of accomplishments from 2017-2018 toward developing and exploring process improvements that have significantly reduced analysis cycle time, solution uncertainty, and labor costs.

Accepting the Project Award
Peter Chun

Team Members

- Sheekant Agrawal
- David Chao
- John Gallman
- Matthew Johnson
- Matthew Kapusta
- Caesar Pleitez
- Steven Speer
- Pichuraman Sundaram

Virtual Integration Team

Lockheed Martin Aeronautics
Palmdale, California



Description of Project:

For the rapid development of virtual engineering practices on a classified effort across multiple sites of an enterprise wide team.

Accepting the Project Award
Jeffrey Schweiss

Team Members

- Brad Corkery
- Walter Franklin
- James Mullen
- Carlo Rendon
- Axel Sehic
- Nicole Shugarts
- Frances Thomas
- Sandra Warren



Northrop Grumman celebrates National Engineers Week.

Our engineers push the envelope of the possible. Their game-changing innovations protect our nation's freedom and advance human discovery. We salute them. Be part of what we do.

THE VALUE OF PERFORMANCE.

NORTHROP GRUMMAN



Jack Northrop Spirit of Innovation Award

To

Matthew Tremmel

AEW/BMC2 Director of Engineering
Northrop Grumman Aerospace Systems
Melbourne, Florida



Presented by

Norm Eng

Vice President of Engineering
Palmdale Aircraft Integration Center
Northrop Grumman Aerospace Systems
Palmdale, California

Matt is a highly respected engineer and leader in Northrop Grumman’s team of more than 22,000 Aerospace Systems professionals. He has enabled key capabilities for the E-2D Advanced Hawkeye - systems-of-systems capabilities, Agile software development, advanced engineering vehicle design tools, and outstanding engineering design event milestones with game-changing AEW-BMC2 capabilities for the US Navy and international customers.

The Jack Northrop Spirit of Innovation Award commemorates the vision, perseverance, and engineering prowess reminiscent of aviation pioneer Jack Northrop, whose achievements and techniques broke the barriers of traditional aircraft design. The Engineers’ Council bestows his award in honor of the individual technical contributions that inspire innovation and advance the progress of the industry.

Past Recipients

- | | | | |
|------|-------------------------------|------|---------------------|
| 2006 | Douglas E. Wood | 2013 | Allen A. Arata |
| 2007 | Paul Marchisotto (posth.) | 2014 | Louie Chavez |
| 2008 | Charles Tomita | 2015 | Stuart Linsky |
| 2009 | Douglas L. Fronius | 2016 | Chris Hernandez |
| 2010 | Dr. John M. Papazian (posth.) | 2017 | Stephen M. Sullivan |
| 2011 | Clayton K. S. Kau | 2018 | Aaron R. Munger |
| 2012 | Daniel Rihn | | |



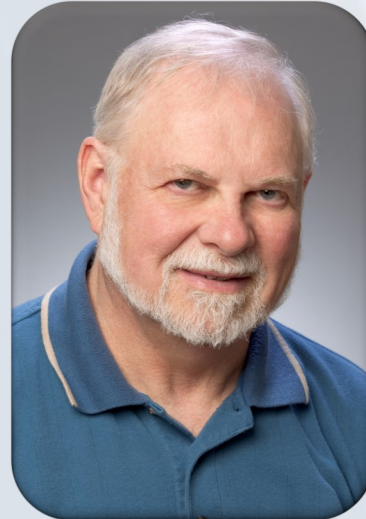
DISTINGUISHED ACHIEVEMENT AWARDS

Earl (Roger) Yolton
The Boeing Company
El Segundo, California



In recognition of outstanding contributions to SW Region, customer focus, execution, and the dedicated focus on high team morale while implementing continuous improvement to meet customer and organizational expectations.

C. P. (Phil) Bruner
Northrop Grumman Mission Systems
Woodland Hills, California



For distinguished contributions in navigation, including systems engineering of strapdown systems, pioneering developments in Inertial-GPS navigation, and commitment to the education and growth of the next generation of navigation engineers.

Wendy Peterson
412th Test Wing, United States Air Force
Edwards AFB, California



For leading the 412th Test Wing leadership and mentorship program, reinvigorating a 4-course leadership training, and for being key for the first-ever Engineering Week events at Edwards AFB.



DISTINGUISHED ACHIEVEMENT AWARDS

Dr. Mark Reeve

Northrop Grumman Mission Systems
Woodland Hills, California



For outstanding contributions and achievements in the development of the algorithms, understanding of the science, and the performance enhancement of the capabilities on the Advanced Sensor Exploitation Program.

Luis Rodriguez

The Boeing Company
El Segundo, California



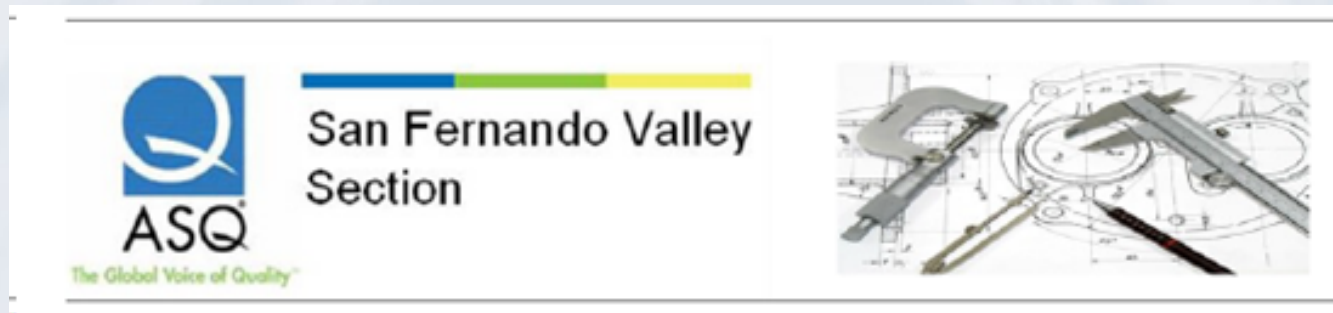
In recognition of outstanding Engineering and Test & Evaluation technical leadership, enabling step function improvement change, influencing business partner collaboration, and for challenging and changing enterprise paradigms.

Fernando Vivero

Aerojet Rocketdyne
Los Angeles, California



For successfully leading Canoga Park site operations during a highly challenging growth period to ensure critical deliveries of space hardware and mission success.



The **American Society for Quality (ASQ)**, formerly the **American Society for Quality Control (ASQC)**, is a knowledge-based global community of quality professionals, with nearly 80,000 members dedicated to promoting and advancing quality tools, principles, and practices in their workplaces and communities. Established on February 16, 1946 by 253 members in Milwaukee, Wisconsin, the organization was first created as a way for quality experts and manufacturers to sustain quality-improvement techniques used during World War II. In 1948, ASQC's Code of Ethics establishes standards for members to conduct their activities and business. In 1997, the members of the organization voted to change its name from "American Society for Quality Control" to "American Society for Quality". Today, ASQ is a global organization with members in more than 130 countries. ASQ operates regional centers in North Asia, South Asia, Latin America, and the Middle East/Africa and has established strategic alliances with 28 organizations through the World Partners® Program in countries like Brazil, Canada, and the United Arab Emirates to promote ASQ products and training.

MATHCOUNTS

MATHCOUNTS is a National Mathematics Competition sponsored by the National Society of Professional Engineers. The competition is for students from the sixth to eighth grades. A school sends a team of four students and as many as six individuals to the local competition. The team coach is a teacher-volunteer from that school. MATHCOUNTS is an extra-curricular activity for the students and the coach. Study guides and teaching materials are provided to participating schools by the National Society of Professional Engineers.

The team winning the local competition participates in the state competition. From individuals competing in the state competition, A team of very bright students is chosen to represent the state in the national competition in Washington, D.C. This is the 34th year for the NSPE MATHCOUNTS PROGRAM.

The local MATHCOUNTS competition is supported by the Southern Chapters Council of the California Society of Professional Engineers (CSPE). Support at the State and National level for the NSPE MATHCOUNTS competition is by major corporations and local businesses.



Quality Engineer of the Year Award

To

Dana J. Speece

Principal Director, Corporate Quality Management Office
The Aerospace Corporation
El Segundo, California



Presented by

Eli G. Stiny

American Society of Quality
San Fernando Valley

Ms. Speece has over a 30 year career in the systems engineering and quality engineering domains. She has comprehensive knowledge of the quality assurance systems utilized at prime contractors and key suppliers for SMC, NRO, and NASA programs. Dana joined The Aerospace Corporation in 1984, bringing with her expertise in the technical areas of microelectronics manufacturing and processes, electronic packaging, and ceramic materials processing. That knowledge was applied to Material Science Laboratory research and development projects for 8 years and then utilized to solve parts, materials, and processing issues related to space rated hardware for an additional 21 years. Dana served on the Office of Space Launch Mission Assurance Team as the Vehicle Lead for 12 successful launches. She led two Mission Assurance Improvement Workshop teams, composed of multiple Aerospace industry partners, to develop a methodology to assess the reuse capability of heritage hardware. Dana has managed the quality and manufacturing engineers that oversee and assess the contractors that build launch vehicles and satellites since 1997. Her technical activities ranged from proposal evaluation, system design reviews, manufacturing reviews/audits, hardware acceptance reviews, evaluation of ISO 9001 and AS9100 compliance, and quality management systems assessments. In 2014 Dana transferred to the Corporate Chief Engineer's Office and began working to implement an internal corporate quality management system. Dana was promoted as the Principal Director of the Corporate Quality Management Office in 2016.

With this award, the Engineers' Council in collaboration with American Society for Quality ASQ recognizes individuals who have achieved significant career accomplishments in the field of quality engineering. The effort being recognized may be for academic research, contract fulfillment, product development or purely for the internal operation of the nominating or sponsoring organization. The candidate must have at least five years of experience in a role devoted primarily to quality engineering. The recipient may be awarded this honor only once in their career.

Past Recipients

2012 Paul Buckley

2015 Lisa Strawn

2016 Ernesto Zepeda



OUTSTANDING ENGINEERING ACHIEVEMENT MERIT AWARDS

Robert Cuadros
Aerojet Rocketdyne
Los Angeles, California



For superior RS-68 turbomachinery technical leadership and engineering mentorship.

Gregory Day
412th Test Wing, United States Air Force
Edwards AFB, California



For conducting test and evaluation of 6 USAF and foreign F-16 programs, totaling \$11B and for enabling identification of 40 critical deficiencies to ensure lethality and combat capabilities.

Marvin Corado
Carpenter Technology Corporation
Camarillo, California



In recognition of outstanding engineering efforts in metal additive manufacturing and for specific achievements addressing the company's core value of a zero injury workplace.

Brietta Oakley
Lockheed Martin Aeronautics Company
Palmdale, California



For the development of the manufacturing process control necessary for certification of unitized bonded composite primary structures without redundant fasteners.

Rachel Morford
The Aerospace Corporation
El Segundo, California



For exemplary achievement as a systems engineer and inclusive leader and for dedicated service to the engineering professional community and serving as a role model and advocate for STEM students.

Louie Acevedo
Aerojet Rocketdyne
Los Angeles, California



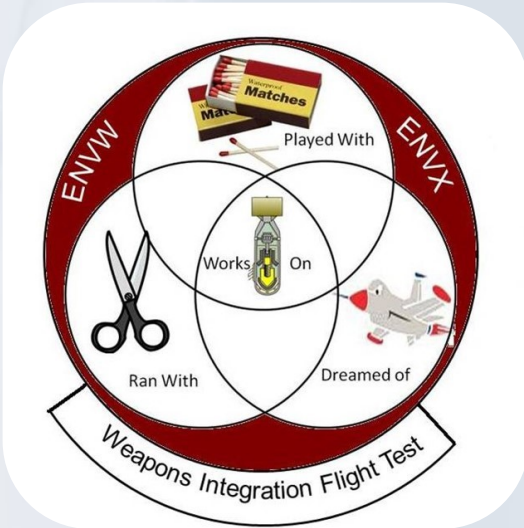
For outstanding design leadership on the AR1 Preburner.



DISTINGUISHED ENGINEERING PROJECT ACHIEVEMENT AWARDS

Weapons Systems Integration Team

412th Test Wing, United States Air Force
Edwards AFB, California



Description of Project:

For conducting test and evaluation of US Air Force and foreign allies programs and proved aircraft lethality against enemy targets while demonstrating maximum target engagement effectiveness.

Accepting the Project Award
Wendy Peterson

Team Members

- | | |
|-----------------|------------------|
| Anthony Becker | Zachary Davis |
| Gregory Day | Leif Engen |
| Jose Estrada | Stephanie Mailen |
| Dustin Malcolm | Emilee Miller |
| Collin O'Fallon | Kevin Peck |
| Jim Pelegrin | Brian Pinto |
| Todd Praechter | Chris Valentino |

AR1 Full Scale Pre-Burner Test

Aerojet Rocketdyne
Los Angeles, California



Description of Project:

For successful design, fabrication, and hot fire demonstration of the AR1 Engine Full Scale Preburner hot fire testing campaign, successfully demonstrating compliance with performance and stability requirements.

Accepting the Project Award
Mark Emanuel

Team Members

- Lisa Bayne
- Maral Bebejian
- Fredrick Dodd
- Richard Dudley
- Matt Mosbacher
- Josh Hansell



DISTINGUISHED ENGINEERING PROJECT ACHIEVEMENT AWARDS

Blue WASP

Northrop Grumman Mission Systems
Woodland Hills, California



Description of Project:

For the development, demonstration, and deployment of revolutionary AI algorithms for automated threat detection in an operational Navy environment.

Accepting the Project Award
Malia Pantastico

Team Members

Paul Algozzini	Adam Brenner
Caryn Bullard	Marcella Clark
Michael Isherwood	Stefanie Lawson
Kenny Lieu	Darrell O'Connell
Chris Phelps	Stuart Schurmann
Stuart Schurmann	Jay Sculler
Mike Trutt	Randall Wells
Nathan Wells	

Halon Alternatives for Aircraft Propulsion Systems (HAAPS)

The Boeing Company
Seal Beach, California



Description of Project:

In recognition of work to shorten the time and expense required to obtain acceptable solution(s) for Halon 1301 replacement for aircraft applications in accordance with the Montreal Protocol.

Accepting the Project Award
Alan Macias

Team Members

Don Bailey	Robin Bennett
Kristyn Bonilla	Fernando Cardoso
Daniel Escamilla	Vincent Furguele
Tobias Gough	Ann Heyward
Rita Olander	Thomas Parsons
Stephane Pugliese	Robert Wellemeyer
Robert Wright	



DISTINGUISHED ENGINEERING PROJECT ACHIEVEMENT AWARDS

Medium Altitude Long Endurance, Optionally Piloted Aircraft System

Northrop Grumman Aerospace Systems
San Diego, California



Description of Project:

In recognition for developing efficient processes for a rapid development program while executing a streamlined air vehicle and systems integration, development, and flight test program.

Accepting the Project Award

Bryan Webb

Team Members

- | | |
|----------------|--------------------|
| Fritz Anderson | Barry Benton |
| Grace Bohn | Neha Desai-Shah |
| Nimish Kurani | Kenneth Nash |
| Jonathan Salek | Rick Sozzi |
| Anne Stockdale | Todd Topsey Tilley |
| Steve Twyman | Yulexis Vargas |
| Erik Wolf | Jeff Woods |

Infrared Suppression System

Lockheed Martin Aeronautics
Palmdale, California



Description of Project:

In recognition of the rapid development and deployment of an Infrared Suppressor System on AC-130W Gunships which increased survivability and saved warfighter lives.

Accepting the Project Award

Mark Towle

Team Members

- Lawrence Reading
- Adam Stephens
- Matthew Stoll
- Kenneth Wong



Inspiring the next generation of innovators in Southern California, and the world.

When we envision the future, we see a world of never-ending possibility. But that future will never be realized unless we prepare today's students for tomorrow's challenges. That's why Lockheed Martin Skunk Works® is committed to educating the next generation workforce to ensure continued success in developing the world's most advanced technologies well into the future.

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Clarence L. “Kelly” Johnson Skunk Works Award

To
Steve Di Domenico



Presented by

James Dorrell

Vice President Tactical Systems,
Advanced Development Programs (ADP)
Lockheed Martin Aeronautics Company
Palmdale, California

Kelly Johnson instilled methods within a dedicated team to achieve program success quickly, quietly with quality. He achieved success without the encumbrance of unnecessary process captured in his Rules of Management. Steve Di Domenico’s consistent and persistent execution of national need programs exemplifies the foundational elements of Kelly Johnson’s leadership. Steve’s direction and initiative inculcated within critical programs continues unabated today. The rapid development of engineering requirements, employment concepts of operations and insertion of game changing technologies into the capabilities of the Department of Defense through his steadfast leadership as Technical Director, USAF are exemplary. He is recognized for his action in defining the need, developing the solution and the fielding of critical technologies within high priority programs to ensure our Nation’s Airmen always have the winning hand.

Clarence L. “Kelly” Johnson’s achievements captured every major aviation design award and made him an aerospace legend, but he may be best known for organizing the Lockheed Skunk Works in 1943. Kelly played a leading role in the design of more than forty aircraft and he received more than forty aircraft design awards and honors, including two Collier Trophies, two Theodore von Kármán awards, the Wright Brothers Memorial Trophy, two Sylvanus Albert Reed Awards, and the Daniel Gugenheim Medal. In 1964, President Lyndon Johnson presented him with the nation’s highest civilian honor, the Medal of Freedom. President Ronald Reagan honored Kelly Johnson with the National Society Medal in 1983 and the National Medal of Technology in 1988. Kelly was enshrined in the Aviation Hall of Fame in 1974.

“The Skunk Works is a concentration of a few good people solving problems far in advance – and at a fraction of the cost – by applying the simplest, most straightforward methods possible to develop and produce new products.” — *Kelly Johnson*

Past Recipients

1992	Clarence L. “Kelly” Johnson (Posth.)	2001	Sherman N. Mullin	2010	Thomas J. Cassidy, Jr.
1993	Maj. Gen. James A. Fain, Jr., USAF	2002	Lt. Gen. Bruce Carlson, USAF	2011	Frank J Cappuccio
1994	Major Gen. Richard Scofield, USAF	2003	Lt. Gen. Michael A. Hough, USMC	2012	James E. Cartwright
1995	Ben R. Rich (Posthumously)	2004	Lt. Gen. Harold W. Blot, USMC (ret.)	2013	Dr. Stephen Walker
1996	Gen. Joseph W. Ralston, USAF	2005	Dain M. Hancock, LMAC	2014	Dr. Leyland Nicolai
1997	Gen. Howell M. Estes III, USAF	2006	Dr. Anthony J. Tether, DARPA	2015	David Hamilton
1998	Lt. Gen. George K. Mueller, USAF	2007	Richard Heppie, LMAC	2016	C. Douglas Ebersole
1999	Natalie W. Crawford	2008	Gen. Gregory “Speedy” S. Martin (ret.)	2017	Dr. George Ka’iliwai II
2000	Burt Rutan	2009	Abraham Karem	2018	John D.W. Corley, USAF (ret)



2019 Charitable Giving

Da Vinci Science High School



Mark Andal
Computer Engineering
University of California, Los Angeles

Taft High School



Ainaz Barkhordarzadeh
Bioengineering
University of Southern California

Palm Desert High School



Parker Cassar
Computer Science
University of California, Berkeley

Reseda High School



Luca Cobeaga
Aerospace Engineering
Cal Poly San Louis Obispo

Canoga Park High School



Joshua Diaz
Physics
University of California, Santa Barbara

La Reina High School



Samantha Gajda
Biomedical Engineering
Stevens Institute of Technology

Narbonne High School



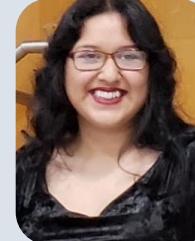
Jose Garcia
Electrical Engineering
University of California, Riverside

Granada Hills Charter High School



Taylor Lee
Bioengineering
University of California, Berkeley

Monroe High School



Karia Leon-Aguilar
Astronomy
University of California, Merced

El Camino Real High School



Josephine Neyyan
Bioengineering
University of California, Los Angeles

Palmdale High School



Joseph Reza
Mechanical Engineering
San Diego State

Chaminade College Preparatory High School



Yara Sevilla
Computer Engineering
Stanford University



2019 Charitable Giving

Redondo Union High School



Joseph Shy
Aerospace Engineering
Cal Poly San Luis Obispo

Knight High School



Larry Smith
Mechanical Engineering
University of California, Riverside

Notre Dame Academy High School



Elsa Taylor
Computer Engineering
University of California, San Diego



Mari Koester
The Engineers' Council Scholarship

West High School, Torrance



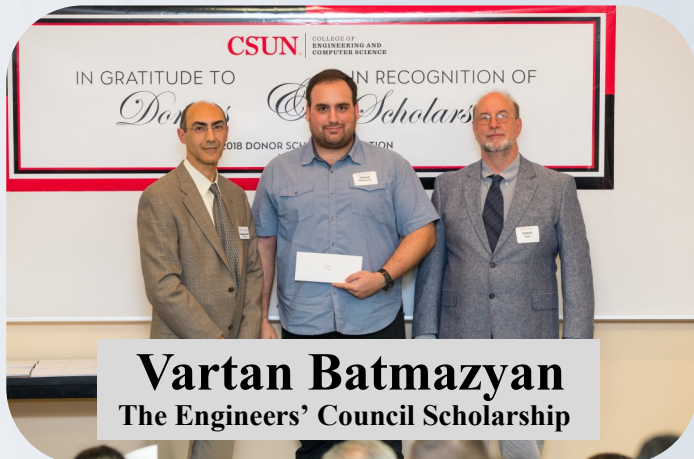
Caleb Terrill
Electrical Engineering
California Institute of Technology



Olivia Lopez
The Engineers' Council Scholarship



CALIFORNIA
STATE UNIVERSITY
NORTHRIDGE



Vartan Batmazyan
The Engineers' Council Scholarship



Walter Reed Middle School



OUTSTANDING ENGINEERING ACHIEVEMENT MERIT AWARDS

Dr. Sembiam Rengarajan
California State University Northridge
Northridge, California



For outstanding research contributions in antennas, and excellence in Electrical Engineering education.

Guido Canzona
Aerojet Rocketdyne
Los Angeles, California



For outstanding leadership and technical support to numerous materials related investigations, maintaining hardware delivery and 100% mission success.

Farzin Dinyarian
Northrop Grumman Mission Systems
Woodland Hills, California



For outstanding contributions in the development, integration, and testing methodologies of the next generation model-based inertial navigation systems, and for the mentoring and training of junior engineers.

Dr. Wael AbdAlmageed
University of Southern California
Los Angeles, California



For designing and building novel fingerprint imaging sensor suite for authentication systems, and design and implementation of state-of-the-art artificial intelligence algorithms and software for detecting internet image forgeries.

Peter Raggio
The Boeing Company
Long Beach, California



For making significant contributions to the 777X Airplane Development Program as a Propulsion Structural Analysis Engineer, completing multiple challenging engine nacelle analyses.



DISTINGUISHED ENGINEERING PROJECT ACHIEVEMENT AWARDS

The B-2 Defensive Management System - Modernization Engineering Team

Northrop Grumman Aerospace Systems
Palmdale, California



Description of Project:

In recognition of the B-2 Defensive Management System Modernization Engineering teams' significant achievement.

Accepting the Project Award
Wesley Collier

Team Members

- Jacob Bialon
- Roger Forsythe
- Kathryn Fosha
- Lucas Johnson
- John Smith

THAAD DACS 500th Unit Delivery

Aerojet Rocketdyne
Los Angeles, California



Description of Project:

For engineering excellence and successful execution supporting delivery of 500 THAAD DACS units.

Accepting the Project Award
Ali Moghaddas

Team Members

- Xavier Diaz
- Steve Filkin
- Christopher Hoang
- Lillian Ng
- Terry Riffle



DISTINGUISHED ENGINEERING PROJECT ACHIEVEMENT AWARDS

VS18-71

Lockheed Martin Aeronautics
Palmdale, California



Description of Project:

For the successful development, design fabrication of a unique game-changing technology and for significantly succeeding where others have failed.

Accepting the Project Award

Robert Burgun

Team Members

Lee Cooke
Lori Jackson
Johannah Rather
Nathan Weber

Core VMS Modern Navigation

Northrop Grumman Mission Systems
Woodland Hills, California



Description of Project:

For providing key enhancements to enable the airborne platforms to achieve superior performance and capabilities necessary to accomplish the challenging and complex missions for our customers.

Accepting the Project Award

Jonathan Lincoln

Team Members

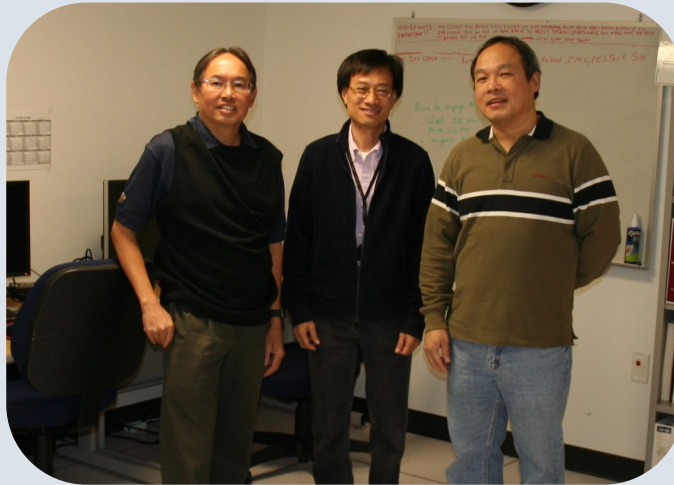
Mohin Aayan Kent Banno
Tom Bolton Jenny Char
Randy Curey Farzin Dinyarian
Raymond Feng Andrew Freeman
Dale Krasnow Matt Spencer
Matt Spencer Tom Varty
Anh Vo



DISTINGUISHED ENGINEERING PROJECT ACHIEVEMENT AWARDS

Beyond Line of Sight Lab Design Team

The Boeing Company
Long Beach, California



Description of Project:

In recognition of developing an innovative approach to integrate and verify Beyond Line Of Sight in the Laboratory environment which resulted in a multi-year funding for Test and Evaluation team.

Accepting the Project Award

Stan Chan

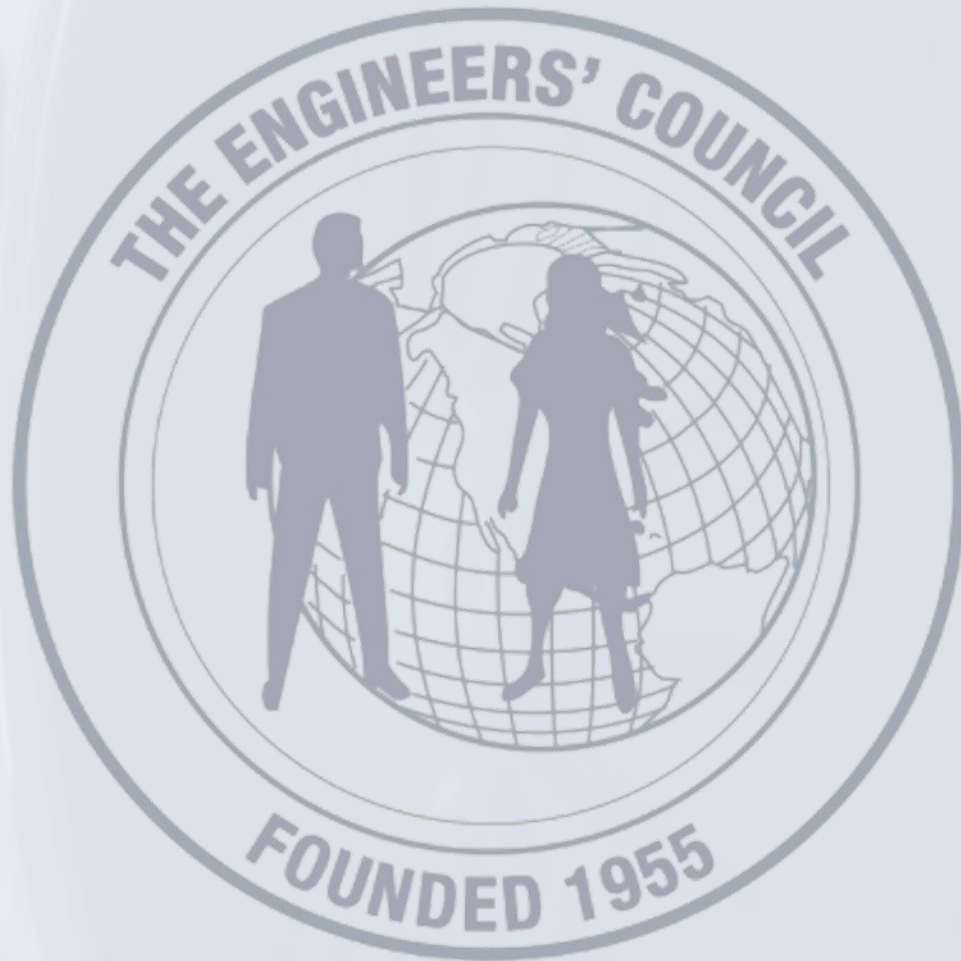
Team Members

Joe Schottmiller

Henri Chan

Davis Bui

Patrick Lui





Special Thanks To:



Aerojet Rocketdyne for the awards artwork.



Lockheed Martin Aeronautics Company Skunk Works for assistance with the cost of audio/video.



The Boeing Company for assistance with the cost of printing the program.



**In Celebration of National Engineers Week
February 17- 23, 2019**