The Engineers' Council

67th Annual Honors and Awards Banquet

SATURDAY, FEBRUARY 26, 2022

REIMAGINING THE POSSIBLE

The Engineers' Council Board of Directors

Executive Board

Sonja Domazet
President

Stephen Guine
Vice President

Eli G. Stiny
Secretary

Marek Z. Barylak, PhD
Treasurer

Board of Trustees

Robert J. Budica, PhD

Kenneth G. Davis

Paul F. Landry

Robert B. Tarn

Directors-at-Large

Paul Gill

Jerry Kraim

Rudy Montalvo

Jackie Zev, PhD

Organizational Representatives

Kevin T. Knudsen

Noelle Saccoccio

Thomas R. Tarn

Robin Vermeland

Student Representatives

Christopher Cuellar

Connor Reyes

History of the Engineers' Council Awards

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 established National Engineers Week to recognize the valuable contributions of engineers to the country. In the years after its founding, the 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 after its designer, Mr. Peter Recchia, who was a great supporter of the engineering community. The Recchia trophy is presented annually to the Engineer of the Year recipient.

In 1987, in collaboration with Brigadier General Charles E. "Chuck" Yeager, the Council established the Brigadier General Charles E. "Chuck" Yeager International Aeronautical Achievements Award which is awarded 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 Council the privilege of using both service marks "Skunk Works" and the stylized "Skunk" in the Clarence L. "Kelly" Johnson Skunk Works Award. In 2006 and 2007, the Council developed the Jack Northrop Spirit of Aviation Award and the Robert H. Goddard Space Propulsion Pioneer Award 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, in collaboration with the Boeing Company. In the same year, the Council also added the Future Technology Leader award to recognize 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), established the Quality Engineer 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 the artwork for its Distinguished Awards. The same year, the Council partnered with professional societies of the Huntsville, Alabama, area to jointly host an honors and awards banquet.

Through the years, the Engineers' Council has presented thousands of awards recognizing the excellence demonstrated by individuals 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.

Sponsors and Partners

Evening Program

Welcome and Future Technology Leaders Awards - 6:00 pm

Master of Ceremony

Stephen Guine

Northrop Grumman Corporation

Dinner

Award Ceremony - 7:00 pm

Welcome Message by The Engineers' Council President

Sonja Domazet

Northrop Grumman Corporation

Award Presenters

Dr. Marek Barylak

Jet Propulsion Laboratory

Dr. Cengiz Ozkan

University of California Riverside

Thomas R. Tarn

Aerojet Rocketdyne

Jim Maser

Aerojet Rocketdyne

Noelle Saccoccio

The Boeing Company

Albert Pedroza

The Boeing Company

Stephen Guine

Northrop Grumman Corporation

Robert B. Tarn

California State University, Northridge

Victoria Yeager

Wife of Brigadier General Charles E. "Chuck" Yeager

Sonja Domazet

Northrop Grumman Corporation

Eli G. Stiny

Ernst & Young

Joe Lazalde

Abbott Laboratories

Robin Vermeland

Lockheed Martin

Larry Pellett

Lockheed Martin

Connor Reyes

University of California Davis

Chris Daughters

Northrop Grumman Corporation

Kenneth G. Davis

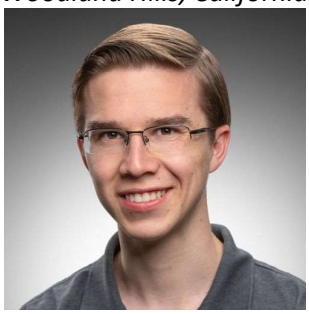
Amaero

Stephen Guine

Northrop Grumman Corporation

Future Technology Leader Award

Shawn Footitt
Northrop Grumman Corporation
Woodland Hills, California



In recognition of distinguished technical leadership to the GBSD program.

Dr. Natalie Gogotsi
Lockheed Martin
Palmdale, California

For innovation and development of next generation technologies in advanced materials, Synthetic or Engineered Biology, and ESH Sustainable Design.

Dr. Kristin Hardin
Northrop Grumman Corporation
Oklahoma City, Oklahoma

For outstanding technical leadership in resolving PMR-15 manufacturing and processing issues and improving tailpipe production efficiency, while confronting the overall industry challenge of utilizing composite materials sustainably.

Dr. Eric Imhof
Northrop Grumman Corporation
Woodland Hills, California

For his leadership in the development of the Grating Magneto Optical Trap, Continuously Tunable Rydberg RF Sensor, and advancements in cold-atom and general quantum sensing.

Tai Kieu
Northrop Grumman Corporation
El Segundo, California

For hard work, dedication, and commitment to company goals as our Lead Structural Analysis for our Experimental Research & Development Gulfstream aircraft.

Wendell Kinnaird
Lockheed Martin
Palmdale, California

For outstanding work and leadership in the field of Flight Controls and Simulation on a complex and difficult project.

Future Technology Leader Award

Christopher Lam
Northrop Grumman Corporation
Woodland Hills, California

For distinguished contributions in the Integrated Digital Systems and dedication to delivering quality while inspiring his team and those around him.

Brian Muraoka
Aerojet Rocketdyne
Canoga Park, California

For outstanding performance, adaptability, and leadership on multiple AR programs including RS-25, RL-10, XLR-132, X-PB, and P657.

Emilie Murphy
Northrop Grumman Corporation
Palmdale, California

For her innovative contributions to the development of a flight control actuation system and for the implementation of computer science methodologies in programmatic challenges.

Natalie Nakamura
Northrop Grumman Corporation
El Segundo, California

For excellent leadership and for masterminding the model-based systems engineering tools, processes and the digital transformations that are required for the future success of a must-win program.

Mark Osikowicz
Aerojet Rocketdyne
Redmond, Washington

For outstanding technical growth and performance in the area of mechanical design of bipropellant and monopropellant thrusters, modular propulsion systems, and electric propulsion thrusters.

Future Technology Leader Award

Nathaniel Perkins
Aerojet Rocketdyne
Canoga Park, California

In recognition of your technical excellence, attention to detail, innovation, and team-first attitude to drive the production and cost savings of the first RS-25 Nozzles.

Creed Wallace Reilly
The Boeing Company
El Segundo, California

For outstanding technical excellence and project leadership in support of The Boeing Company's Satellite Propulsion & Fluid System test programs.

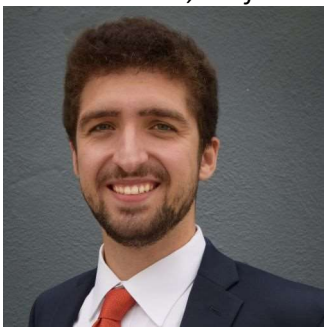
Dr. John Robertson
The Boeing Company
El Segundo, California

For spearheading new technology developments and leading complex anomaly investigations in Solar Array technologies for Boeing Space and Launch, resulting in substantial cost savings and avoidance opportunities.

Madison Stein
Lockheed Martin
Palmdale, California

For outstanding work in the field of Aerodynamics and Mission Performance in support of a critical national need.

Kevin Ward
Northrop Grumman Corporation
Woodland Hills, California



For outstanding technical leadership and dedication in Inertial Measurement System requirements management and in Model Based Systems Engineering, and for excellence in Agile team leadership and mentorship.

Outstanding Engineering Achievement Merit Award

Christopher Arnold
Aerojet Rocketdyne
Canoga Park, California

For outstanding leadership of the X-PB AXE Design Team, including execution of the Critical Design Review and design release.

Laura Brown
Aerojet Rocketdyne
Rancho Cordova, California

For technical expertise in the controllable solids field, leadership ensuring the success and growth of the program, and excellence in mentorship.

Shannon Clark
The Boeing Company
Tukwila,Washington

For outstanding contributions to Test & Evaluation and Systems Engineering in the Aerospace Industry and at The Boeing Company.

Dr. Stephen Cronin
University of Southern California
Los Angeles, California

For pioneering advances in plasma-based methods for pollution remediation, including diesel engine exhaust, SO2, NO, and particulate matter.

Handoko Hadisurya
The Boeing Company
El Segundo, California

For leading the design and development of multiple electromechanical assemblies, increasing Boeing's capabilities while driving failure investigations for critical spacecraft applications.

Dr. Maryam Jalalitabar
California State University, Northridge
Northridge, California

For outstanding teaching, research, and service to California State University, Northridge, and to the professional community.

Past Recipients of The Engineering Educator of the Year Award

1982 Dr. Alfonso F. Ratcliffe
1983 Dr. Robert Y. Wong
1984 Dr. Edmond S. Gillespie
1985 Dr. Thelma Estrin
1986 Dr. Gregg W. Dixon
1987 Dr. Michael A. Melkanoff, P.E.
1988 Dr. Diane Schwartz
1989 Dr. Larry Lichten
1991 Dr. B. J. Shell
1992 Dr. Mihran S. Agbabian
1993 Dr. Michael Hassul
1994 Dr. John W. Adams
1995 Dr. Sembian R. Rengarajan
1996 Dr. Roger Di Julio
1997 Dr. Martin S. Roden
1998 Dr. Ramin Roosta
2000 Dr. Helen A. Ryaciotaki-Boussalis
2001 Dr. Sharlene Katz
2002 Dr. Stewart Prince
2003 Dr. Nagwa Bekir
2004 Tarek A. Shraibati
2005 Dr. Robert G. Ryan
2006 Dr. Mihri Ozkan
2007 Dr. Diane Schwartz
2008 Dr. Behzad Bavarian
2009 Dr. Chi-Tsen Lin
2010 Dr. Hamid Johari
2011 Dr. Melvin A. Breuer
2012 Dr. S. K. Ramesh
2013 Dr. Vijay K. Dhir
2014 Dr. Mau-Chung F. Chang
2015 Dr. Alan N. Willson,
2016 Dr. William J. Kaiser
2017 Dr. Azad M Madni
2018 Dr. Cengiz S. Ozkan
2019 Dr. Kawai Tam
2020 Dr. Houssam A. Toutanji

About the Award

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.”

John J. Guarrera
Engineering Educator of the Year Award

Presented To:

Professor Steven Stepanek

Professor of Computer Science
California State University, Northridge
Northridge, California

For excellent leadership and tireless contributions to the California State University over 45 years of service as professor, department chair, and faculty trustee.

Presented By:

Dr. Cengiz S. Ozkan
Professor, Mechanical Engineering
University of California Riverside
Riverside, California

Professor Stepanek has been associated with the California State University for 45 years, holding the positions of staff, lecturer, professor, department chair, campus faculty president, and CSU trustee. He has held the rank of full professor at CSU Northridge for 28 years, and served as Computer Science department chair for 15 of those years. As department chair, he has been instrumental in building the Computer Science department as it exists in its current form. He has been deeply involved in issues regarding community college transfer credit, and he has worked with the university to extend computer science education to several local high schools.

Prof. Stepanek served continuously on the CSU, Northridge Faculty Senate from 1994 to his retirement in 2017 and served on the Northridge Faculty Senate Executive Committee, and two elected 2-year positions as faculty president and campus senate chair. In 2013 Governor of California Jerry Brown appointed Professor Stepanek to the CSU Board of Trustees as the faculty trustee. In this role, Prof. Stepanek chaired the Board committees on Organization and Rules, Institutional Advancement, and Campus Planning, Buildings and Grounds. After his four-year appointment ended, he returned to the classroom in Fall 2018. He joined the Faculty Early Retirement Program (FERP), and resumed his teaching position at half-time. He used this opportunity to develop and teach an experimental “stretch” 2-semester foundational Computer Science course. In support of CSUN’s creation of the Global Hispanic Serving Institution Equity Innovation Hub (HSI-EIH)., Prof. Stepanek served on two focus groups: the Innovation Hub Combined Collaborative Stakeholders and the Digital and Capture Lab Focus Group. Prof. Stepanek has also been instrumental in starting a new Computer Science program at the American University of Bahrain (AUBH). Armed with his knowledge of the field, his curriculum expertise, and his strong leadership, he has skillfully navigated the many challenges of launching a new program in a remote institution. In the past year Professor Stepanek has been working with AUBH to ensure that this new program will be ABET-accredited.


THE ONE WORD YOU NEED TO KNOW IN 3D METAL PRINTING...
AMAERO
From concept to reality, Amaero is a global end-to-end metal additive manufacturing solutions provider supporting the aerospace, defense, automotive and tooling industries.
+ Custom engineered AM alloys, powders and wire
+ Production-ready 3D metal printers, designed for high reliability and productivity
+ From 1 part to 1 million parts, Amaero brings the best solutions for your AM needs
AMAERO
ADDITIVE MANUFACTURING
amaeroinc.com

Distinguished Engineering and Engineering Educator Achievement Awards

Dr. Reza Ahmadi
Northrop Grumman Corporation
Woodland Hills, California

For distinguished achievement in modeling and simulation, Kalman filter design, requirement definition, and performance prediction for several generations of multi-sensor navigation systems enabling a wide range of missions and capabilities.

Dr. Anwar Alroomi
California State University, Northridge
Northridge, California

In recognition of her dedication to the Construction Management program at California State University, Northridge, her work in the accreditation process, and her mentorship of students in the program.

Dr. Peter Bishay
California State University, Northridge
Northridge, California

For excellent contributions to innovative educational approaches, exceptional mentorship of undergraduate and graduate students, and outstanding publication record in the area of solid mechanics.

Peter Buck
Lockheed Martin
Palmdale, California

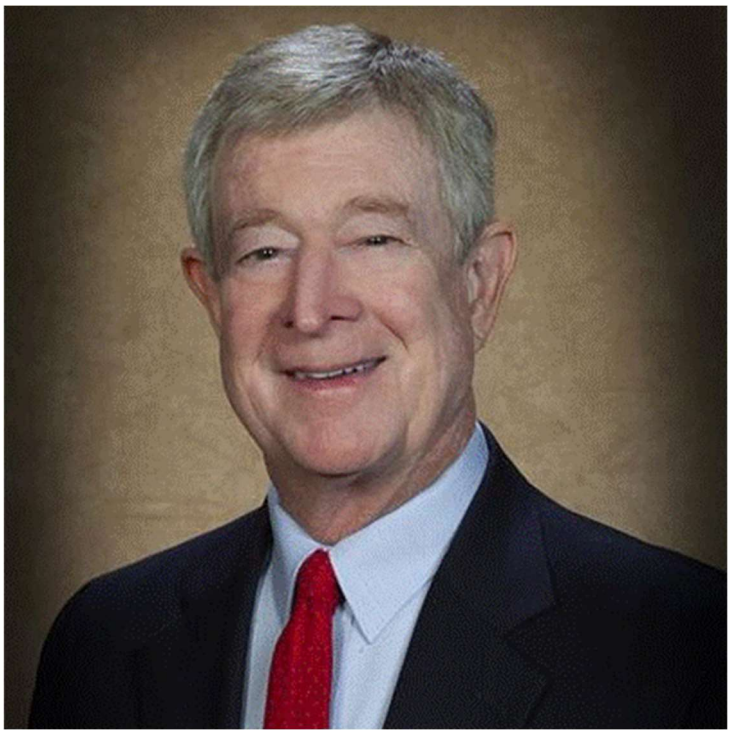
For exceptional contributions to Lockheed Martin in response to critical national needs and for contributions to the advancement and acceptance of electric powered aircraft.

Paul Carroll
Aerojet Rocketdyne
Canoga Park, California

For outstanding performance, superior dedication, technical knowledge, and leadership in the advancement of human space flight.


Aerojet Rocketdyne
Congratulates all
2022
National Engineers
Week Honorees
AEROJET ROCKETDYNE
rocket.com
la0020_22

Robert H. Goddard – Space Propulsion Pioneer Award



Presented To:

Doug Bradley

Deputy Program Manager, RS-25 Engine System
Aerojet Rocketdyne
Canoga Park, California

In recognition of your decades-long passion, leadership, integrity, technical excellence, and commitment to flight safety and mission success of America's Space Program.

Presented By:

Jim Maser
Senior Vice President Space Business Unit,
Aerojet Rocketdyne
Canoga Park, California

Doug Bradley began his 44-year career as a design engineer in Space Shuttle Main Engine turbomachinery in 1977. His experience in SSME included design and development engineering, product team leadership in turbomachinery and Systems, and finally as the SSME chief engineer. Following the end of the SSME program, Doug led the Chief Engineering organization supporting all programs within the Space business, before becoming the RS-25 Deputy Program Manager. Doug distinguished himself very early in his career, and as that career progressed his technical knowledge, problem solving, and decision-making capabilities grew and matured. Doug has the unique ability to simplify very complex designs and issues into concepts that others can understand. Doug played a vital role in developing a high-performance propulsion system that proved to be among the most reliable in NASA's history, with 135 launches and more than 1.1M seconds of successful engine hot fire experience. Doug's technical expertise and commitment to flight safety has earned the admiration and respect of the NASA customer. Doug is also a person of integrity, which forms the foundation of his leadership abilities. In the team atmosphere Doug treats others fairly and with respect, actively soliciting input from team members and fostering an environment open to diverse perspectives, ideas, and opinions. No matter how busy he is, Doug makes it a personal responsibility to patiently mentor team members, empowering them with "stretch" assignments, actively monitoring and coaching without micromanaging. Doug leads by example with confidence, calmness, and decisiveness in pressure packed situations.

About the Award

This award is given in honor of the founder of modern rocketry, Dr. Robert H. Goddard. Dr. Goddard was a physicist of great insight who envisioned the exploration of space and had a genius for invention.

Past Recipients

2007 Byron K. Wood
2008 Maynard "Joe" Stangeland
2009 Paul F. Seitz
2011 John B. Plowden
2012 James Maser
2014 Dr. Munir M. Sindir
2016 Steven A. Bouley, Jeffrey Kincaid
2017 Dr. Marvin F. Young
2018 James Paulsen
2020 Daniel Adamski

Distinguished Engineering Project Achievement Award

THAAD DACS VDA 2nd Source Qualification Testing

Aerojet Rocketdyne
Canoga Park, California

In recognition of technical excellence and outstanding performance in the successful execution and timely completion of the VDA Second Source Supplier Qualification Testing despite significant obstacles, including a last minute shock equipment certification request.

Chris Hoang
Project Leader

Team Members:

Daniel Balcazar
Ken Christie
Bryan Davis-Jr
Annie DerGrigorian
Brian Gerrity
Haik Kafadarian
Andy Keyes
Aimee Kurachi
Felicia Li
Vincent Papaleo
Aaron Reyes
Terry Riffle

Innovative Unmanned System Development

Lockheed Martin
Palmdale, California

In recognition of raising the state of the art in unmanned vehicle controls, survivability maintainability, low cost/quick manufacturing techniques, and payload integration

Eric Knutson
Project Leader

Team Members:

Michael McMillan
James Stolting
Michael Swanson

Distinguished Engineering Project Achievement Award

Collaborative Development

Northrop Grumman Corporation
Palmdale, California

In recognition of excellence in the development of advanced and collaborative digital tools and processes in order to improve performance on development and modernization programs.

Cristy Vanderhyde
Project Leader

Team Members:

Jack Bell
Mark Billman
Sterling Christensen
Jennifer Johnson
Mark Kellum
Jonathan Madrigal
Mark Nichols
Sonkith Nola
Robbie Robertson
Chris Schan
Armond Sinclair
John Smith
Policarpio Soberanis
Katrina Wriglesworth

Beyond Line of Sight Project

The Boeing Company
Long Beach, California

In recognition of their innovative approach to the development and integration of test equipment in the laboratory environment for qualification of the Beyond Line of Sight Project which received several recognitions from customers for first-time quality and timely project completion

Mehdi Kiani
Project Leader

Team Members:

Chiu (Stan) Chan
James Cast-Jr
Gilbert Huizar
Patrick Lui
Tony Nguyen
Eric Payne
Joseph Schottmiller

The Boeing Engineering Leadership Award

Presented To:

Dr. Michelle Parker

Vice President and Deputy General Manager
Space and Launch Division, BDS
Boeing Defense, Space & Security (BDS)
The Boeing Company
El Segundo, California

Presented By:

Albert Pedroza
Laboratory Test Value Stream
Boeing Test & Evaluation
Engineering, Test & Technology
The Boeing Company
El Segundo, California

Dr. Michelle Parker is vice president and deputy general manager for the Space and Launch division within Boeing Defense, Space & Security (BDS), where she is responsible for driving business integration, leading operations and assisting with strategic direction across the Space and Launch portfolio including programs: International Space Station, CST-100 Starliner, Space Launch System, government and commercial satellite systems, subsidiaries Spectrolab and Millennium Space Systems and Boeing's participation in United Launch Alliance.

Dr. Parker has been recognized as an extremely successful and passionate senior executive leader across engineering, strategy and program execution roles throughout her tenure at The Boeing Company. She earned a reputation as a thoughtful, forward-looking leader who values diversity in addressing challenges. She is known as a technical expert who works with customers, suppliers and employees to prioritize opportunities, increase efficiencies and meet demanding requirements.

About the Award

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 exhibit outstanding engineering discipline and excellence and are recognized engineering leaders.

Past Recipients

2016 Dr. John J. Tracy
2017 Dr. Robert H. Liebeck
2018 Kristin A. Robertson
2019 Mark Jenks
2020 Dr. Kevin Wise

Distinguished Engineering and Engineering Educator Achievement Awards

Derek Chang
Lockheed Martin
Palmdale, California

For exceptional contributions to Low Observable and Survivability technology development and transition in support of the warfighter.

Joe Cozza
The Boeing Company
El Segundo, California

For effective and sustained leadership in Systems Engineering and Test and Evaluation and for engineering contributions to Boeing Space and Launch Systems Programs, leading to productivity and operational efficiency improvements.

Hany Erian
The Boeing Company
El Segundo, California

For resolving multiple high visibility critical issues, mentoring many engineers, and leading advanced technology developments.

Dr. Dan Erwin
University of Southern California
Los Angeles, California

For pioneering advances in model-based methods for simulation, design and evaluation of air and space vehicles, and their successful transition to customer and partner organizations.

STEM Educator Award

Dr. Darin Gray
University of Southern California
Los Angeles, California

For a lifetime of passionate and innovative service, teaching, and mentoring that has changed the lives of thousands of K-12 students and educators, especially those in under-resourced and overlooked communities.

2021 The Engineers' Council Scholarships

Hoang Phan

William J. Pete Knight HS
Computer Science
Cal Poly Pomona

Connor Reyes

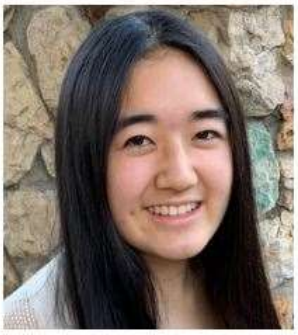
Chaminade College Preparatory HS
Aerospace Engineering
UC Davis

Angela Biezins

La Reina HS
Biomedical Engineering
Cal Poly San Luis Obispo

Dominik Martinez

Palmdale HS
Aeronautical Engineering
Embry-Riddle University



Kaori Takiguchi

Redondo Union HS
Environmental Sciences
UC Santa Barbara

Sara Shi

West HS
Materials Science and Engineering
UC Los Angeles

Rashani De Alwis

Narbonne HS
Mechanical Engineering
UC Berkeley

Aidan McNabb

Taft HS
Materials Science and Engineering
UC Berkeley

Elanor Whitesides

Quartz Hill HS
Civil Engineering
CSU Long Beach

Josue Rodriguez

El Camino HS
Computer Science
MIT

Armando Olvera

Canoga Park HS
Engineering Management
CSU Northridge

David Uehara

Da Vinci HS
Electrical and Computer Engineering
USC

2021 The Engineers' Council Scholarships

Dakota Frazer

Shadow Hills HS
Mechanical Engineering
University of Redlands

Trevor Trinh

Granada Hills HS
Computer Science
UC Berkeley

Justino Lopez-Gonzalez

Desert Mirage HS
Civil Engineering
UC Irvine

Cameron Irvine

Reseda HS
Engineering Physics
UC Berkeley

Connor Gorsuch

Palos Verdes Peninsula HS
Computer Science
UC Santa Barbara

Giulia Martorana

Louisville HS
Physics
Carnegie Mellon University

Primrose Gatenil

John H Francis Polytechnic HS
Biomedical Engineering
Rensselaer Polytechnic Institute

David Eric Toler

California Academy of Math and Science HS
Electrical Engineering
Howard University

Maya Rose Yakovee

Oak Park HS
Mechanical Engineering
University of Maryland

MATHCOUNTS®
COMPETITION SERIES
EST. 1983

Past Recipients of The Engineer of the Year Award

1959 Roy E. Marquardt
1960 Richard Bradshaw
1961 Milford G. Childers
1962 Paul R. Vogt
1963 George T. Harness
1964 Ralph Balent
1965 Clarence L. Johnson
1966 Steven J. Domokos
1967 James A. Broadston
1968 Dr. Arnold M. Levine
1969 Willis M. Hawkins
1970 Ralph A. Lamm
1971 Arthur A. Daush, Jr.
1972 Dr. R.N. Ghose
1973 John J. Guarrera
1974 Elliott H. Green
1975 Mathew C. Ek
1976 Sam F. Iacobellis
1977 Lon L. Sanders
1978 Norman J. Ryker
1979 Donald C. Tillman
1980 Dominick J. Sanchini
1981 Ben R. Rich
1982 Dr. Paul B. MacCready
1983 Charles G. Fargo
1984 Dr. Malcom Currie
1985 Phillip V. King
1986 Sophia K. Ashley
1987 Dr. Rodney A. Boudreaux
1988 George J. Hallinan
1989 Paul H. Lane
1990 William F. Ezell
1991 Edward G. Linhart
1992 Sherman N. Mullin
1993 Robert D. Paster
1994 Byron K. Wood
1995 Jack S. Gordon
1996 Ernest Schaeffer
1997 Paul B. Smith
1998 Anthony Joseph Spear
1999 Robert Goetz
2000 Dr. Michael E. Polites
2001 Dr. Charles Volk
2002 Maynard L. “Joe” Stangeland
2003 E.R. “Ed” Glasgow
2004 Norman S. Sakamoto
2005 Thomas R. Gavin
2006 John B. Plowden
2007 Thomas W. Blakely
2008 Jeffrey S. Kincaid
2009 Frank Flores
2010 Daniel A. Tazartes
2011 Eric D. Knutson
2012 James S. Paulsen
2013 Dennis P. O’Donoghue
2014 Donald D. Wilkes
2015 Richard D. Baily
2016 Santiago A. Bulnes
2017 Dr. George A. Pavlath
2018 Dr. Dale E. Burton
2019 Scott C. Ward
2020 Howard McKenzie

About the Award

The Engineer of the Year Award recognizes an individual with outstanding professional qualities who has a top reputation for both engineering accomplishments and leadership. Candidates are evaluated for an entire career of work in both their professional and civic lives. The Engineer of the Year is awarded a beautiful plaque and allowed to keep for one year’s time- the Peter Recchia Omni Award. 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.”

Engineer of the Year Award
Peter Recchia Omni Award

Presented To:

Robert Zmarzlak

Director of Engineering
Northrop Grumman Corporation
San Diego, California

Presented By:
Stephen Guine
Vice President, The Engineers' Council

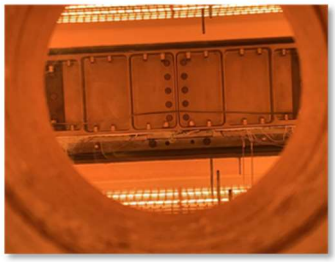
Rob Zmarzlak is the Chief Engineer for the portfolio of programs that provide intelligence, surveillance, and reconnaissance within the Northrop Grumman Aeronautical Systems sector. He is responsible for ensuring system engineering process rigor is exercised across all autonomous platforms. Prior to this role, he was Chief Engineer for an enterprise program where he provided exceptional leadership, technical guidance and oversight to complete operational assessment, first flight and deployment of a critical mission platform.

Rob has 37 years of experience in systems engineering, space and launch operations, and functional and program management. He has served as manager of various systems engineering departments including Launch and Mission Operations Department and the operations team at Schriever Air Force Base. Additionally, Rob has served 24 years in active and reserve military duty for both the US Navy and Army in the intelligence field. He has served in overseas deployments to include Korea, Germany, Diego Garcia, and Kosovo providing tactical, operational, and strategic level intelligence to the US and allied military forces, NATO, and National Command Authority. Rob has actively supported sector training and development programs for our future Chief Engineers. He is the coauthor of Aerospace TOR 2013-00293 Mission Assurance Practice for Satellite Operations; Space Mission analysis and Design, 3rd edition 1999.

Distinguished Engineering Project Achievement Award

HAWTBOX Development and Test

Lockheed Martin
Palmdale, California



In recognition of a highly successful thermostructural test which advanced knowledge of hot structure applications and enables lighter, more efficient future aircraft designs

Reid Carlson
Project Leader

Team Members:

Don Dubowski
Demetrious Jarvis
Noel Mangual
Ellen McIsaac
Brenton Morris
Andres Naranjo
Cole Pedersen
Carlo Rendon
Devin Stacey
Miriam Yehieli

F/A-18 Block III Development

Northrop Grumman Corporation
El Segundo, Oklahoma

In recognition of the application of thorough system engineering methodologies, comprehensive design and development processes and supplier and customer teaming, in the development of the F/A-18 Super Hornet with Block III capabilities

Jack Bell
Project Leader

Team Members:

Erick Aldalur
Steve Ballasteros
Ray Chen
Monica Fernandez
Kevin Gallenstein
Todd Granacki
David Kane
Matt Kim
Denise Pederson
Cynthia Pham
Mike Sieber
Laura Stanjevich
Ly Tran
Greg Wood

Distinguished Engineering Project Achievement Award

LA Site Expansion Construction Project Team

Aerojet Rocketdyne
Canoga Park, California

In recognition of excellence in executing and completing the LA Site Expansion Construction Project under budget and in time to meet the RS-25 rocket engine manufacturing needs during the unprecedented and impactful COVID-19 era

Mike Bramlett
Project Leader

Team Members:

Wendy Bowers
Fred Eastman
Frank Esposito
John L'Engle
Joseph L'heureux
Jaime Lozano
Victor Saba
Paul Ubhi
Jordan Ware

Flight Safety Project

The Boeing Company
Long Beach, California

In recognition of the development of an innovative approach to flight test certification, mitigating potential process and equipment failure, which received concurrence and accolades from commercial airline customers

Gerald Prendergast
Project Leader

Team Members:

Douglas Bell
Patrick Nightingale
Ernest Rivera

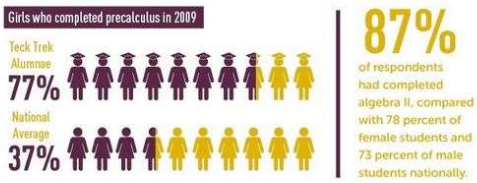
GET EMPOWERED

Tech Trek

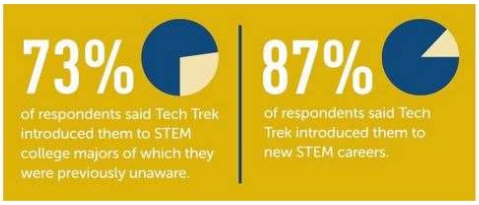
Through hands-on problem solving and encounters with women role models in science, technology, engineering, and math (STEM), AAUW Tech Trek helps girls see their futures while having nonstop fun. This one-week summer camp is backed by AAUW's research and designed to make STEM fields exciting and accessible to girls in middle school — the age when girls' participation in these fields statistically drops. For many girls, the week long camp sparks their curiosity and places them on a path toward success.

AAUW of California member Marie Wolbach founded Tech Trek in 1998 with the help of an AAUW Community Action Grant. Today AAUW Tech Trek operates at 22 different sites around the nation. A 2013 survey of AAUW Tech Trek alumnae from California demonstrates the program's lasting effects on many levels, including interest and confidence in STEM fields, decision to pursue those fields, and future career plans.

AAUW Tech Trek alumnae surpass the national average in most advanced math and science courses:



Girls learn about STEM careers that align with their passions and help them solve big problems:



Find AAUW Tech Trek near You

Camps are held in the summer at campuses around the country. All campers are nominated by their seventh-grade math and science teachers. Girls then apply and are selected by a committee. Visit the camp pages below to learn more about getting involved at the local level

CREDIT:

WWW.AAUW-CA.ORG/TECH-TREK

AAUW of California

Brigadier General Charles E. "Chuck" Yeager International Aeronautical Achievement Award

Presented To:

Charles Moss Duke, Jr.

Astronaut
Brigadier General USAF (Ret)
New Braunfels, Texas

Presented By:
Victoria Yeager
Wife of Brigadier General Charles E. "Chuck" Yeager

Upon graduation from the Naval Academy and receiving his commission in the USAF, Mr. Duke entered pilot training and received his wings in Sept. 1958. He served three years in Germany as a fighter interceptor pilot with the 526th Fighter Interceptor Squadron at Ramstein Air Base. He was then assigned to MIT for a master's degree. In 1964, he entered the USAF Test Pilot School at Edwards AFB. He has logged 4,147 hours flying time which includes 3,632 hours in jet aircraft. Astronaut Duke is one of the 19 astronauts selected by NASA in April 1966. Duke served as lunar module pilot of Apollo 16, April 16-27, 1972. With the completion of the Apollo 16 mission, General Duke has logged 265 hours and 51 minutes in space, which includes 21 hours and 28 minutes in extra-vehicular activities. Astronaut Duke also served as the backup lunar module pilot for the Apollo 13 and Apollo 17 flights. In December 1975, Duke retired from NASA to enter private business in San Antonio. He entered the USAF Reserves in 1975 and served as Mobilization Augmentee to Commander AF Basic Military Training Center and to Commander USAF Recruiting Service. He was promoted to Brigadier General in 1979 and retired in June 1986. Since 1976, Mr. Duke has been involved in a wide variety of business. He is an active motivational and inspirational speaker. As an entrepreneur, business executive, military officer, and Astronaut, he brings to the speaker's platform forty years of experience. His speeches are entertaining, informative and sprinkled with humor. He has appeared on numerous TV shows, and spoken for hundreds of associations, clubs, organizations, churches, and schools all over the world. General Duke and his wife Dorothy reside in New Braunfels, Texas.

About the Award

In 1987, in collaboration with Brigadier General Charles E. "Chuck" Yeager, the Council established the Brigadier General Charles E. "Chuck" Yeager International Aeronautical Achievements Award, which is awarded to the individual who, with the general's concurrence, has attained historically outstanding achievement in the field of aeronautical flight test and engineering.

Past Recipients

1987 Brig. General Charles E. "Chuck" Yeager, USAF
1988 Maj. Gen. Joe H. Engle, USAF
1989 Robert A. "Bob" Hoover
1990 Robert R. Sandusky, Jr.
1993 Joseph T. Gallagher
1994 Edward C. "Pete" Aldridge, Jr.
1995 Franklin Chang Diaz
1996 Jack Real
1997 David L. Ferguson
1998 Maj. Gen. Richard L. Engel, USAF
1999 Bruce Hinds
2000 Jon S. Beesley
2001 Lt. Gen. Thomas J. Keck, USAF
2002 Gen. John P. Jumper, USAF
2003 Col. Russell E. Schleeh, USAF (ret)
2004 Maj. Gen. Doug Pearson, USAF
2005 Roy Martin, NGC
2006 Lt. Col. Dawn M. Dunlop, USAF
2007 Col. Frank Borman, USAF (ret.)
2009 Col. David R. Scott, USAF (ret.)
2010 Sean D. Tucker
2011 Charles F Brink
2012 Robert H. Liebeck
2013 Clay Lacy

Outstanding Engineering Achievement Merit Award

Kevin Knudsen
The Engineers' Council
Los Angeles, California

In recognition of service to The Engineers' Council to tirelessly promote and grow the relationships with our industry partners.

Jerry Kraim, P.E.
The Engineers' Council
Los Angeles, California

In recognition of decades of outstanding service to both The Engineers' Council and MATHCOUNTS charities to foster and inspire STEM education students.

Carrie LaPonza
The Boeing Company
El Segundo, California

For advancing structural product development for space and aerospace systems.

Ronald Martin
The Boeing Company
Huntsville, Alabama

For phenomenal contributions as the Boeing Space Launch System Green Run Lead Test Director, which have been critical to the success of the Artemis Program.

Kris Miner
Aerojet Rocketdyne
Canoga Park, California

In recognition for outstanding technical leadership in completing several key program milestones.

Garry Pickett
Aerojet Rocketdyne
Canoga Park, California

For contributions to the engineering profession in the technology of metal finishing and development of an anodizing process for additive manufactured components.

National Engineers' Week Message from the International Space Station

Hello from the International Space Station! I am Raja Chari Flight Engineer of Expedition 66.

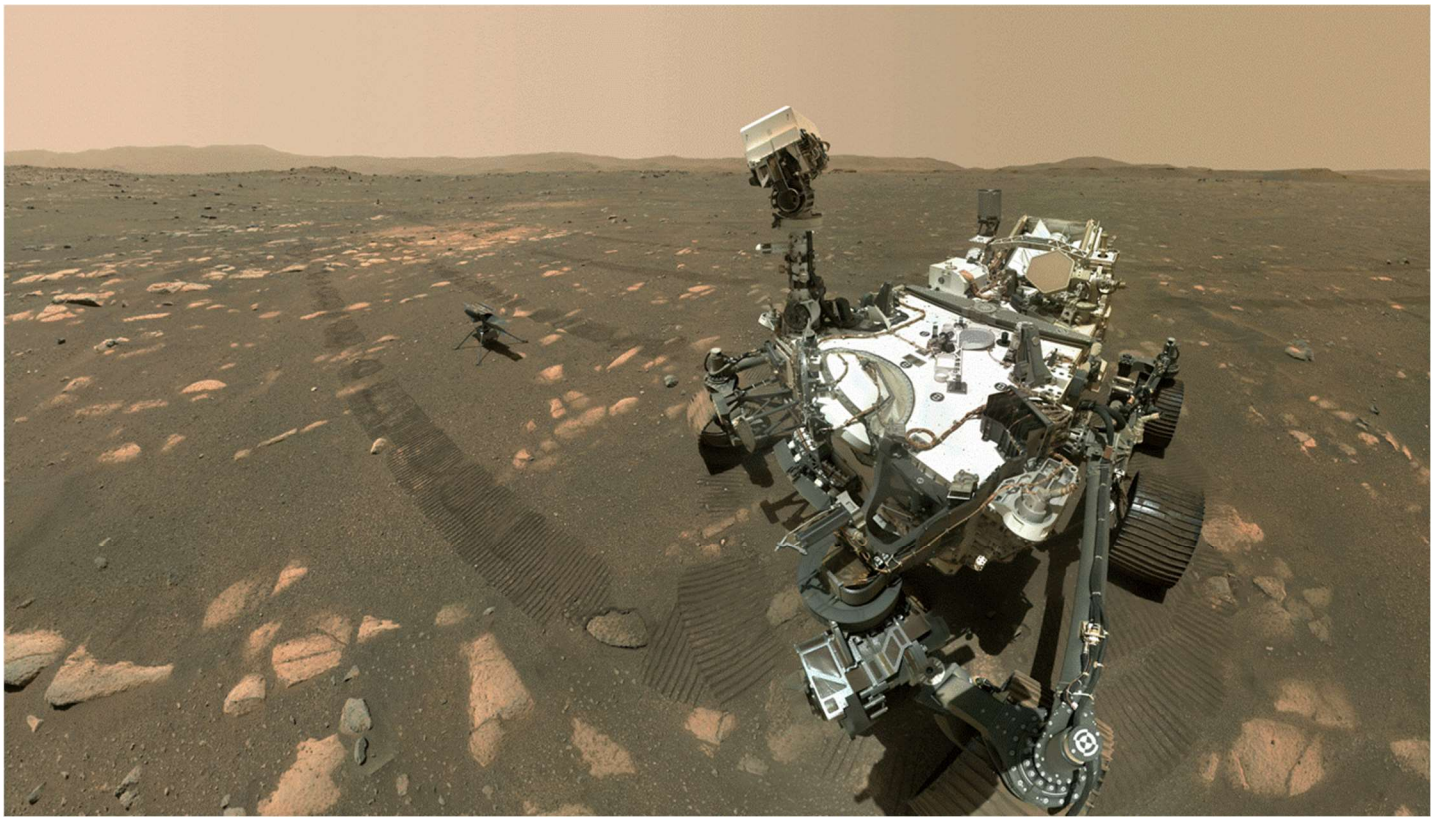
Congratulations all of you on the 2022 observance of National Engineers Week. We join with you in celebration of all the engineers making a difference in the world, through project work as well as bringing engineering to life for kids, educators, and parents. We also salute all the volunteers from engineering societies and professional organizations across our great nation stimulating interest in math and science among our youth.

NASA is an engineering organization. We live and work in the most complex engineering project ever designed and built, and our lives depend on all the engineers who made this home possible. The criticality of the work on your engineering projects cannot be overstated – if you don't do your job then people get hurt. For the engineers living and working in America every day, we appreciate what you do to keep us safe up here, to keep our families secure at home, to contribute to the economic vitality of our nation, and to make technological progress for the benefit of all people on Earth.

NASA and our International Partners are also working hard preparing to go back to the Moon, on to Mars, and to explore the solar system. For the future engineers of America, we need your help to get there. Study hard, aim high and keep the dream alive!

Cheers to you from the International Space Station!

Project of the Year Award



Jet Propulsion Laboratory
California Institute of Technology

Accepting the award on behalf of the Mars 2020 team:

Matt Wallace

Mars 2020 Deputy Program Manager and Project Manager

Jet Propulsion Laboratory
Pasadena, California

Presented By:
Sonja Domazet
President, The Engineers' Council

Matt Wallace served as the Mars 2020 Deputy Project Manager and Project Manager. He initiated the concept work for the Perseverance rover mission, and led the development and implementation team from 2013 through launch in July of 2020, successful landing on February 18th, 2021 and initial surface operations through June of 2021. Perseverance is continuing its surface mission of in-situ science and technology experiments, and collecting samples for return to Earth.

Perseverance is the fifth Mars rover on which Matt has worked. He began as a power systems engineer on the Mars Pathfinder Sojourner vehicle, led the assembly and test team for the twin Spirit and Opportunity missions, which landed in 2004, and held the Flight System Manager position on the 2012 Curiosity mission. He has worked on other planetary missions at JPL, and as a program manager for Earth-observing satellites in the aerospace industry. He is currently the Deputy Director of the Planetary Sciences Directorate at JPL.

Matt graduated from the U.S. Naval Academy in Annapolis, Maryland with a B.S. in systems engineering, and received an M.S. in electrical engineering from Caltech. He served in the US Navy fast attack submarine fleet.

Matt lives in Santa Clarita, just north of Los Angeles with his wife Sandra, and his daughter Jane.

MARS 2020 Perseverance Mission

Jet Propulsion Laboratory
California Institute of Technology

Project Management Team
- John Mcnamee
- Matt Wallace
- Jennifer Trosper

Project Science Leadership
- Ken Farley

Project Systems Engineering Team Leadership
- Rick Welch
- Doug Bernard

Chief Engineering Team Leadership
- Adam Stelzner
- Keith Comeaux
- Jason Gates

Flight Systems Team Leadership
- Jeff Srinivasen
- Gun-Shin Chen
- Ray Baker
- Jeff Weiss

Instrument Systems Team Leadership
- Soren Madsen

Mission Systems Team Leadership
- Arthur Amador
- Mike Wilson
- Fernando Abilleira

Mission Phase Leadership
- John Essmiller
- Al Chen
- Robert Hogg

Assembly, Test and Launch Operations Team Leadership
- Dave Gruel
- Art Thompson

Flight Systems System Engineering Team Leadership
- Magdy Bareh
- Jessica Samuels
- Loren Jones

Instrument Systems Engineering Team Leadership
- Elizabeth Cordoba
- Justin Maki

Sample Caching Team Leadership
- Keith Rosette
- Matt Robinson
- Louise Jandura
- Avi Okon

Flight Software and Avionics Team Leadership
- Bryan Martin
- Robyn Haleski
- Steve Scandore

Mechanical Team Leadership
- Chirs Salvo
- Rich Rainen

Distinguished Engineering and Engineering Educator Achievement Awards

Dr. Satyandra Gupta
University of Southern California
Los Angeles, California

For exceptional contributions and advancements to engineering education and research by creating experiential learning opportunities in both research and projects with the creation of a center for advanced manufacturing.

Chris Hoang
Aerojet Rocketdyne
Canoga Park, California

For a career of technical excellence and outstanding leadership, particularly in leading the successful planning and execution of this VDA Manufacturing Qualification test series.

Dr. Arun Muley
The Boeing Company
Huntington Beach, California

For visionary leadership in the development and implementation of next generation integrated thermal technology, using Additive Manufacturing (AM) and novel materials for aerospace, automotive, and power systems.

Donald Ploski
Aerojet Rocketdyne
Canoga Park, California

In recognition of your 40 years of technical excellence, dedication to teamwork, and critical knowledge sharing to allow Aerojet Rocketdyne to push the boundaries of human space exploration.

Maria Ramirez
Aerojet Rocketdyne
Canoga Park, California

For key design and leadership contributions across four programs, and for always performing with the highest standards in quality and excellence.

Dr. Paul D. Ronney
University of Southern California
Los Angeles, California

For sustained and fundamental contributions to microgravity, micro-scale and turbulent combustion, plasma-assisted combustion, flammability and ignition limits, fire spread, automotive engines, and spacecraft propulsion.

ASQ 706 San Fernando Valley

During Engineers Week, the San Fernando Valley Section (706) of the American Society for Quality would like to acknowledge the key role of Quality Engineers in Industry. By making quality a global priority, an organizational imperative, and a personal ethic, the American Society for Quality becomes the community for everyone who seeks quality concepts, technology, and tools to improve themselves and their world.

Congratulations to ALL quality professionals who have dedicated their career to assuring compliance with customer requirements, industry standards, and government regulations.

Please join us in congratulating the 2022 Quality Engineer of the Year awardee, Yvette Harris, from the Aerospace Corporation.

Quality Engineer of the Year Award

Presented to:

Yvette Harris

Associate Principal Director
The Aerospace Corporation
El Segundo, California

For outstanding career contributions to quality engineering and continuous improvement and for sustained commitment to STEM education.

Presented By:

Joe Lazalde
Quality Director
Abbott Laboratories
Sylmar, California

Ms. Yvette Harris is a Lean Six Sigma Black Belt with twenty years of experience as a quality engineer and leader. Currently the Associate Principal Director of the Corporate Quality Management Office at The Aerospace Corporation, Ms. Harris provides technical leadership, planning, and assessment of the quality management system (QMS) at Aerospace, an FFRDC with 4500 employees. Her strategic goals have included improving Quality Steering Committee (QSC) engagement, standardizing quality tools, renewing quality training, and ensuring QMS best practices. She implemented and matured the QMS across the corporation with an emphasis on technical services and products. She has expanded awareness and assimilation of the QMS into Aerospace culture through enterprise-wide messaging, training, and continued involvement of corporate leadership and embedded quality ambassadors. She created a re-imagined enhanced corporate corrective and preventive action process that is utilized across the enterprise to enable internal process improvements, by developing an implementation approach that focuses on the value of an effective QMS, over and above compliance requirements. Previously, Ms. Harris was a Senior Manager of Mission Assurance (MA) at Raytheon in El Segundo, where she was the mission assurance and engineering leader of five Program Quality Managers (PQMs) and 7 Program Quality Engineers (PQEs). She delivered a consistent MA approach throughout the Secure Sensors Solution (S3) Airborne Early Warning Reconnaissance Systems (AEWRS) Product Line and supply base to achieve mission success, while aligning with corporate MA policies, initiatives, and activities. Earlier in her career, Ms. Harris was Director of Global Quality at Tekni-plex in North Carolina, where she provided global Quality leadership with over 20 direct reports in the medical tubing industry with Class 8 Cleanrooms for three sites in North Carolina, California, and Costa Rica. Through her career, Ms. Harris has held several engineering organizational titles of Senior Manager Quality, Global Manufacturing Technology Program Manager, Regional Quality/Continuous Improvement Manager, NA Powder Coating Business Manager, Energy Engineering Consultant, Sales, Technical Services Leader, Lead Process Engineering, and Production Engineering.

About the Award

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
2019 Dana J. Speece
2020 Michael Hebert
2021 Joe Lazalde

Outstanding Engineering Achievement Merit Award

Manfred Schiruska
Northrop Grumman Corporation
Woodland Hills, California

For outstanding contributions in the development of an Integrated Optics chip used for precision fiber optic gyroscopes.

Jeff Stewart
The Boeing Company
El Segundo, California

For the innovative RF design tool that models STE and integrates work products like RF gain budgets through the use of single digital data threads, thereby significantly increasing design efficiency.

Brad Tatum
Lockheed Martin
Palmdale, California

For outstanding contributions to subsystems integration and for developing and mentoring the next generation of talented engineers.

Dr. Nathan Wells
Northrop Grumman Corporation
Woodland Hills, California

For outstanding technical achievement, leadership, and innovation in signal processing within the ASEP program.

Ushio Yuki
Lockheed Martin
Palmdale, California

In recognition of outstanding contributions to aerodynamic design integration and drag reduction in support of a critical national need.

Sean Zich
Northrop Grumman Corporation
Woodland Hills, California

For outstanding contributions in the development of next generation power supplies used for modernized inertial navigators under demanding performance and form factor constraints.

Clarence L. "Kelly" Johnson Skunk Works Award

Presented To:

Jeff Babione

Vice President & General Manager,
Skunk Works
Lockheed Martin
Palmdale, California

In grateful recognition for the development and fielding of critical technologies and high priority programs that ensure our Nation's Airmen maintain a warfighting advantage while consistently exhibiting Kelly Johnson's 14 Rules of Management.

Presented By:

Larry Pellett
Vice President- ISR and Unmanned Systems
Lockheed Martin Aeronautics Company

Over his 37-year career Mr. Babione has been responsible for developing some of the most iconic aircraft in aviation history. He currently is the Vice President and General Manager of Lockheed Martin's Advanced Development Programs (ADP), also known as the Skunk Works®, for Lockheed Martin Aeronautics Company. Prior to leading the Skunk Works, Jeff Babione was the Executive Vice President and General Manager, F-35 Lightning II Program, at Lockheed Martin Aeronautics Company. In this role, Mr. Babione led all areas of the F-35 Lightning II fighter aircraft program to include development, production, sustainment and modernization supporting three F-35 aircraft variants for three U.S. military services, eight international partner nations, and multiple foreign military sales customers. Mr. Babione served as Vice President and Deputy General Manager, F-35 Lightning II Program, from March 2013 to December 2015. Prior to joining the F-35 program, he served as Vice President and General Manager, F-16/F-22 Integrated Fighter Group, where he led all aspects of the development, manufacture and sustainment of the F-16 Fighting Falcon and the F-22 Raptor. A Lockheed Martin employee for 29 years, Mr. Babione has held a wide range of engineering and leadership positions, including F-22 Chief Engineer from 2006 to 2010. As Chief Engineer, he was responsible for overall technical integrity of the world's first 5th Generation fighter program. Lockheed Martin and the Raptor Team were awarded the Robert J. Collier Trophy for the most significant achievement in American aerospace in 2006. Prior to joining Lockheed Martin, Mr. Babione worked as a structural engineer at the Boeing Company developing composite material allowables and supporting the design and manufacturing of the 777 aircraft.

About the Award

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. "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 This award is bestowed to those who follow his legacy.

Past Recipients

1992 Clarence L. "Kelly" Johnson (Posth.)
1993 Maj. Gen. James A. Fain, Jr., USAF
1994 Major Gen. Richard Scofield, USAF
1995 Ben R. Rich (Posthumously)
1996 Gen. Joseph W. Ralston, USAF
1997 Gen. Howell M. Estes III, USAF
1998 Lt. Gen. George K. Muellner, USAF
1999 Natalie W. Crawford
2000 Burt Rutan
2001 Sherman N. Mullin
2002 Lt. Gen. Bruce Carlson, USAF
2003 Lt. Gen. Michael A. Hough, USMC
2004 Lt. Gen. Harold W. Blot, USMC (ret.)
2005 Dain M. Hancock, LMAC
2006 Dr. Anthony J. Tether, DARPA
2007 Richard Heppe, LMAC
2008 Gen. Gregory "Speedy" S. Martin (ret.)
2009 Abraham Karem
2010 Thomas J. Cassidy, Jr.
2011 Frank J Cappuccio
2012 James E. Cartwright
2013 Dr. Stephen Walker
2014 Dr. Leyland Nicolai
2015 David Hamilton
2016 C. Douglas Ebersole
2017 Dr. George Ka'iliwai II
2018 John D.W. Corley Gen USAF (ret)
2019 Steve Di Domenico
2020 Randall G. Walden

Distinguished Engineering Project Achievement Award

MEMS EDU Delivery Team

Northrop Grumman Corporation
Woodland Hills, California

In recognition of the development, integration, and testing of the first Engineering Development Unit (EDU) based on cutting edge MEMS technology, which provides significant enhancements to our war fighter's capability in the field of image stabilization, guidance and control

Dr. Alex Trusov
Project Leader

Team Members:

Victor Akel
Michael Chavez
Phil Clark
Farzin Dinyarian
Thomas Fanous
Omid Haghighi
Brett Kozma
Dr. George Pavlath
Daniel Rampacek
William Schellhorn
Dan Tazartes
Cole Umemura

Satellite Platform Test Software Design Optimization

The Boeing Company
El Segundo, California

In recognition of innovative and effective implementation of the Satellite Platform Test Software Design Optimization for parallel Bus Test

Jesse Gomez
Project Leader

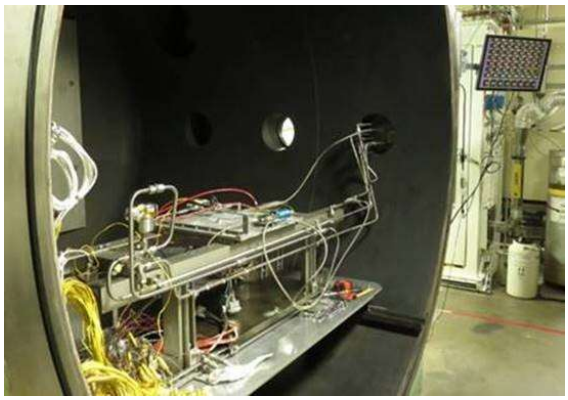
Team Members:

Kenneth Austin
Timothy Bentley
Alyssa Concha
Tristan Nguyen
Kevin Wang

Distinguished Engineering Project Achievement Award

Modular Propulsion System Development

Aerojet Rocketdyne
Redmond, Washington



In recognition of innovative design and successful development testing of a game-changing miniaturized hydrazine propulsion system for in-space cubesat applications, resulting in a game-changing product for critical in-space missions for both government and commercial applications

Scott Kimbrel
Project Leader

Team Members:

Matthew Barber
Andrew Haviland
Matthew Jakubek
Tom Koho
Victor Lo
Matthew Barber
Kim Matthews
Lisa Morgan
Mark Osikowicz
Leslye Ross
Phil Swinburne
Garrett Urban

Hypersonic University Research & Workforce Development

Lockheed Martin
Palmdale, California

In recognition for instituting a game-changing paradigm for engaging academia to solve hypersonic technology challenges of vital importance to National Security of the United States and allies

Barry Bauer
Project Leader

Team Members:

David Belt
Danielle Clement
Daniel Garcia
Daniel Hecht
Christopher Iannello
Anjaney Kottapalli
Bruce Moylan
Suraj Rawal
John Rhoads
Garrett Strickland
Brad Wheatley

Distinguished Engineering Project Achievement Award

F/A-18 Physiological Episode Risk Mitigation

Northrop Grumman Corporation
El Segundo, California

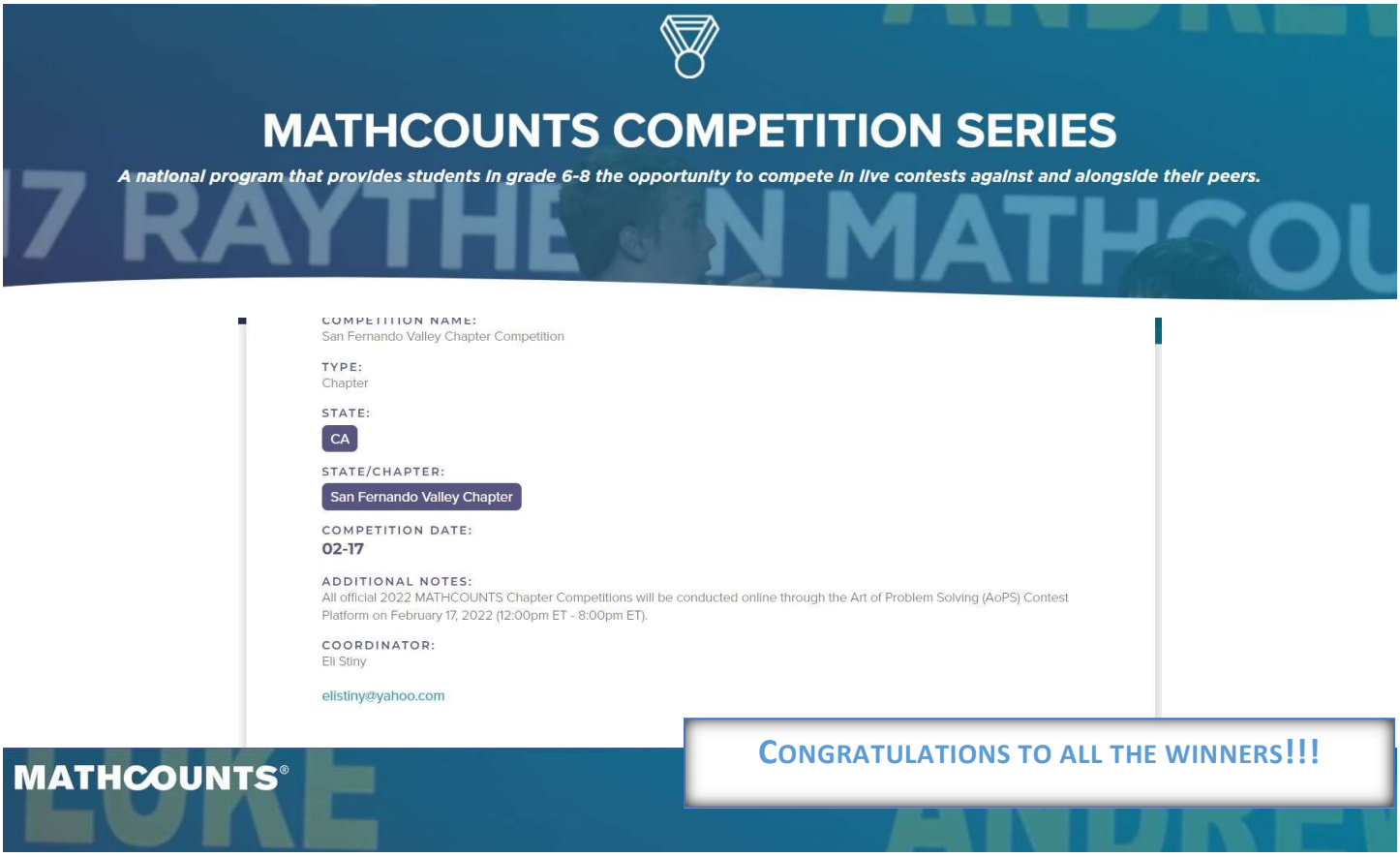
In recognition of the application of thorough system engineering methodologies, comprehensive design and development processes, and supplier teaming in the mitigation of risks associated with physiological episodes on the F/A-18 aircraft fleet

Douglas Alchorn
Project Leader

Team Members:

Erick Aldalur
James Cadena
Jeff Earnest
Brandon Gilbert
Todd Granacki
James Kasper
Chris Singh


CONGRATULATIONS
DISTINGUISHED FACULTY
AND ALL 2022 ENGINEERS WEEK HONOREES!
PROF. STEVEN STEPANEK
John J. Guarrera Engineering Educator of the Year
DR. ANWAR S. ALROOMI
Distinguished Engineering Educator
DR. PETER L. BISHAY
Distinguished Engineering Educator
DR. CHRISTOPH SCHAAL
Distinguished Engineering Educator
DR. MARYAM TABIBZADEH
Distinguished Engineering Educator
DR. MARYAM JALALITABAR
Outstanding Engineering Achievement Merit
CSUN
COLLEGE OF ENGINEERING AND COMPUTER SCIENCE


MATHCOUNTS COMPETITION SERIES
A national program that provides students in grade 6-8 the opportunity to compete in live contests against and alongside their peers.
COMPETITION NAME:
San Fernando Valley Chapter Competition
TYPE:
Chapter
STATE:
CA
STATE/CHAPTER:
San Fernando Valley Chapter
COMPETITION DATE:
02-17
ADDITIONAL NOTES:
All official 2022 MATHCOUNTS Chapter Competitions will be conducted online through the Art of Problem Solving (AoPS) Contest Platform on February 17, 2022 (12:00pm ET - 8:00pm ET).
COORDINATOR:
Eli Stiny
elistiny@yahoo.com
MATHCOUNTS®
CONGRATULATIONS TO ALL THE WINNERS!!!

Jack Northrop Spirit of Innovation Award

Presented To:

Michael Huebner

Senior Staff Engineer Systems Architect
Northrop Grumman Corporation
Melbourne, Florida

In recognition for his continuous drive for quality, integrity, and professionalism in engineering.

Presented By:

Chris Daughters
Vice President of Engineering
Northrop Grumman Corporation
Redondo Beach, California

Mike Huebner is a senior staff engineering system architect with 37 years of multi-faceted experience which includes subsystem design, large-scale integration, process development, and subsystem testing. Huebner has proven himself as a strong technical lead and subsystem subject matter expert successfully leading teams in delivering products from initial concept to final rollout.

Huebner has the vision in optimizing subsystem onto aircraft platforms helping solve some of the company's toughest problems, and has been fortunate to be associated with dozens of aircraft programs over the past few decades. Huebner is especially known for his integration expertise, and for fully owning his product through the production cycle, always looking for ways to improve the product build. Driving affordability and quality into our customer's products has been his passion. Huebner mentored several individuals that have moved on to be leaders in the company. He continues to drive quality and professionalism on any program he works. He has been recognized as a SME in his field and is sought after regularly. Huebner has been involved in several programs from the start and has risen to the challenge of not only maintaining the integrity of the profession but has been highly active in knowledge transfer to maintain the consistency of the process.

About the Award

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 this award in honor of the individual technical contributions that inspire innovation and advance the progress of the industry.

Past Recipients

2006 Douglas E. Wood
2007 Paul Marchisotto (posth.)
2008 Charles Tomita
2009 Douglas L. Fronius
2010 Dr. John M. Papazian (posth.)
2011 Clayton K. S. Kau
2012 Daniel Rihn
2013 Allen A. Arata
2014 Louie Chavez
2015 Stuart Linsky
2016 Chris Hernandez
2017 Stephen M. Sullivan
2018 Aaron R. Munger
2019 Matthew Tremmel
2020 Barry Strattan

Distinguished Engineering and Engineering Educator Achievement Awards

Dr. Oussama Safadi
University of Southern California
Los Angeles, California

For modeling what excellence looks like in and out of the classroom and mentoring generations of engineers who are now equipped to address the challenges of the present and future.

Dr. Christoph Schaal
California State University, Northridge
Northridge, California

For distinguished contributions to engineering education and research by introducing innovative teaching methodologies and collaboratively conducting scientific research in applied and experimental mechanics with numerous student researchers.

Dr. Maryam Tabibzadeh
California State University, Northridge
Northridge, California

For selfless dedication to educating and mentoring CSUN's diverse engineering students, and for opening up opportunities every day for our community.

Todd Uramoto
Northrop Grumman Corporation
Woodland Hills, California

For distinguished technical achievement, leadership, and excellence in the architecture, design, and development of inertial navigation systems as well as integrated digital avionics and systems for fixed and rotary-wing aircraft.

Marilee Wheaton
The Aerospace Corporation
El Segundo, California

For outstanding technical contributions to systems engineering for space and ground systems and for exemplary leadership and sustained service to multiple professional engineering societies.

William B. Johnson International Inter-Professional Founders Award

Dr. Cengiz Sinan Ozkan

Professor, Mechanical Engineering
University of California Riverside
Riverside, California

For exceptional leadership in professional societies with international distinction, for pioneering and ground-breaking contributions to energy and nanoelectronics research, and for innovative contributions to engineering education and mentoring.

Presented By:

Kenneth Davis

Trustee, The Engineers' Council

Dr. Ozkan is a visionary engineer, inventor and a celebrated educator, and has an exceptionally strong record of accomplishments in engineering research and intellectual property development; undergraduate and graduate engineering education; and exceptional leadership in professional societies with international distinction. He has made pioneering innovations to manufacturing high-performance Li-ion batteries for mobile computing and electrification of transportation; and nanomaterials and devices for beyond CMOS electronics. He graduated nearly 70 PhD/MS students from his research group, and mentored many more undergraduate students and engineers from the industry. Dr. Ozkan inspires his students and teaches them how to innovate, by invoking their creativity via critical thinking of real-world engineering problems, and teaches them how to work in teams on selected projects. He is a founding faculty member of the Materials Science and Engineering Program and recruited nearly 130 PhD/MS students for graduate studies. He has been a member of DARPA and SRC funded STARnet Center for Spintronic Materials, Interfaces and Novel Architectures, and FCRP Center on Functional Engineered Nano Architectonics, both aimed at exploring the next generation of semiconductor technologies and memory systems. Dr. Ozkan's research accomplishments received worldwide news media coverage in many news outlets and TV stations. He organized and chaired over 40 scholarly scientific symposia and conferences worldwide, and has been elected a Global Meeting Chair for the Fall 2021 Meeting of the Materials Research Society (MRS) in Boston, MA, a most prestigious honor for a materials engineer. Dr. Ozkan received many awards and honors including Fellow of the Materials Research Society (MRS), Advanced Materials Laureate (International Association of Advanced Materials), John J. Guarrera Engineering Educator of the Year (Engineer's Council), and SRC Inventors Award.

About the Award

This award was established by the Engineers' Council to perpetuate the image and memories of one of its founders, William Bill Johnson – his leadership, methods, fortitude, standards, efforts, and achievements with compassion for others while focusing on bettering the engineering community. Selection of recipients for this award reflects his image.

Past Recipients

1982 William B. Johnson
1990 George J. Hallinan
1991 John J. Guarrera
1992 Lloyd W. Higginbotham
1993 Roland V. Roggero
1994 Norman Shaffier
1995 Alan R. "Al" Bjorklund
1996 Jack L. Ferrell
1997 Byron K. Wood
1998 Jim Albaugh
1999 Sherman N. Mullin
2000 James S. Paulsen
2001 Maynard "Joe" Stangeland
2003 John B. Plowden
2004 Jeffrey S. Kincaid
2005 Capt. George T. Mellen II, USAF
2006 Robert B. Tarn
2007 Richard C. Peters
2008 Dr. Sharlene Katz
2009 Dr. S. K. Ramesh
2011 Charles Olsefsky
2013 Randell E. Surch
2015 S. Ling Wu
2016 Michael C. Halbig
2017 Dr. Nagwa E. Bekir
2019 Dr. Azad M. Madni
2020 Dr. Mrityunjay Singh

Distinguished Engineering Project Achievement Award

Space Launch System Green Run Test Execution

The Boeing Company
Huntsville, Alabama

In recognition for their critical role in the success of the Space Launch System Green Run testing, culminating with the Hot Fire Test, a full duration static firing of all four RS-25 engines on the Artemis 1 Core Stage Rocket

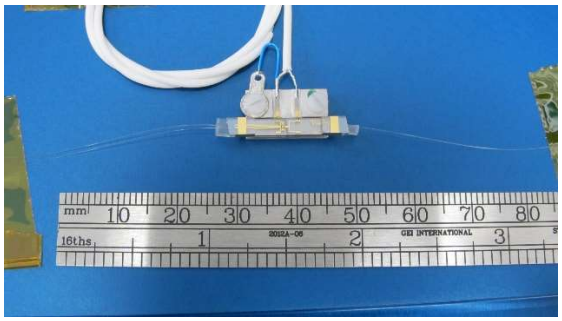
Ronald Martin
Project Leader

Team Members:

Hal Baker
Jason Conley
Cory Cooper
Jeff Coots
Nick Jensen
Scott Kalfus
Matthew Klein
William Patrick
Christian Pinto
Kaki Quarles
Moustafa Youssef

IOC Qualification Team

Northrop Grumman Corporation
Woodland Hills, California



In recognition of the development, implementation, and successful qualification of an Integrated Optics Chip critical to the implementation of precision Fiber Optic Gyroscopes used in missile defense

Todd Uramoto
Project Leader

Team Members:

Colin Andreas
Anthony Anglin
Carl Bathelt
Chris Dominguez
Kathy Hamilton
Dr. George Pavlath
Jeff Pomeroy
Laura Ray
Ric Rosete
Manfred Schiruska
Wes Snow

Distinguished Engineering Project Achievement Award

Gulfstream IV Flying Test Bed Triton Surrogate

Northrop Grumman Corporation
Mojave, California

In recognition of excellence in modifying a standard business jet Gulfstream IV into a manned demonstration aircraft equipped with MQ-4C Triton Unmanned Aircraft mission systems and sensors, providing the ability to incorporate and demonstrate new capabilities quickly and cost effectively

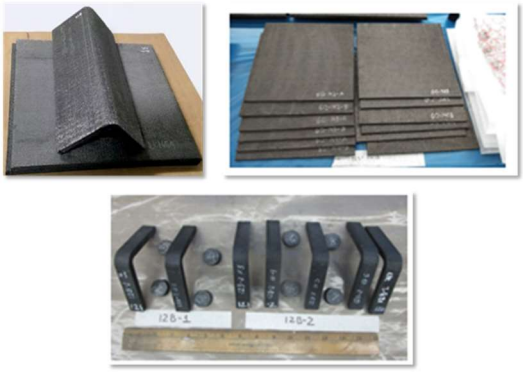
Carolyn Abrenica
Project Leader

Team Members:

Andrew Carpenter
Steve Cronk
Kevin Hamer
Troy Johnson
Tai Kieu
Greg Loegering
Erik Petersen
Rob Rowe
Jayden Schrenk
Jeff Sindelar
William Solomon
Mark Thompson
John Whitson

Hypersonics Ultra-high Temperature Materials and Structures

Lockheed Martin
Palmdale, California



In recognition of significant advancement in high temperature material processing for high speed and hypersonic applications critical to US national security interests

John Scarcello
Project Leader

Team Members:

Alfonso Garcia
Alex Shih
Ronald Weaver
Bradley Wing
Brian Zuchowski

Special Thank You

Banquet Event

Lockheed Martin Aeronautics Company Skunk Works	For Assistance with the Cost of Audio/Video

Donation to The Engineers' Council Charitable Giving

The Boeing Company	Scholarship Donation
University of California Riverside, Dr. Cengiz Sinan Ozkan	Scholarship Donation
Private Donation by Mr. Agarwal	Scholarship Donation

Program

Aerojet Rocketdyne	Full Page Advertisement
Amaero	Full Page Advertisement and for Assistance with the Cost of Printing the Program
ASQ	Full Page Advertisement
Blue Origin	Full Page Advertisement
The Boeing Company	Full Page Advertisement
CSUN	Half Page Advertisement
Lockheed Martin	Full Page Advertisement
Northrop Grumman Corporation	Full Page Advertisement

Credits

Honors and Awards Committee

Dr. Marek Z. Barylak	Stephen Guine	Robert B. Tarn
Kenneth Davis	Kevin Knudsen	Thomas R. Tarn
Sonja Domazet	Noelle Saccoccio	Robin Vermeland
Paul Gill	Eli G. Stiny	Dr. Jackie Zev

Event Hosts

From Aerojet Rocketdyne:	Adiba Ali, Jose Garay-Lozano, Leana Osmer, Daniel Pietrzyk, Thomas R. Tarn
From The Boeing Company:	Mo Razzak, Noelle Saccoccio
From CSUN:	Christopher Cuellar, Robert B. Tarn,
From JPL:	Justin Diaz, Scott R Timpe
From Lockheed Martin:	Curtis Barton, Sahar Rashed
From: UC Davis	Connor Reyes

Awards Assembly

Dr. Marek Z. Barylak	Sonja Domazet	Robert Tarn
Christopher Cuellar	Paul Gill	Dr. Jackie Zev
Kenneth Davis	Eli G. Stiny	Marc Zev

Awards Artwork

Mike Matte Tatjana Odovic

Program Cover Artwork

Tatjana Odovic

Program Design

Sonja Domazet

Photography

Daniel Parales Gene Yano

Scholarships and Charitable Giving Committee

Jerry Kraim	Eli G. Stiny
Rudy Montalvo	Dr. Jackie Zev

The Engineers' Council

February 2022