

The Engineers' council 66th Annual Honors and Amarcis Fabruary 27, 2021



Contents

The Engineers' Council Board of Directors	3
Hstory of the Engineers' Council Awards	4
n Memoriam Brigadier General Charles E "Chuck" Yeag	jer5
Sponsors and Partners	6
Presenters	7
-uture Technology Leader Award	9
Outstanding Engineering Achievement Merit Award	13
2020 The Engineers' Council Scholarships	16
Distinguished Engineering Achievement Awards	21
n Memoriam A F. Ratcliffe, PhD	22
Quality Engineer of the Year Award	24
Distinguished Engineering Project Achievement Award.	26
Oredits	31





The Engineers' Council Board of Directors



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Hstory 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.

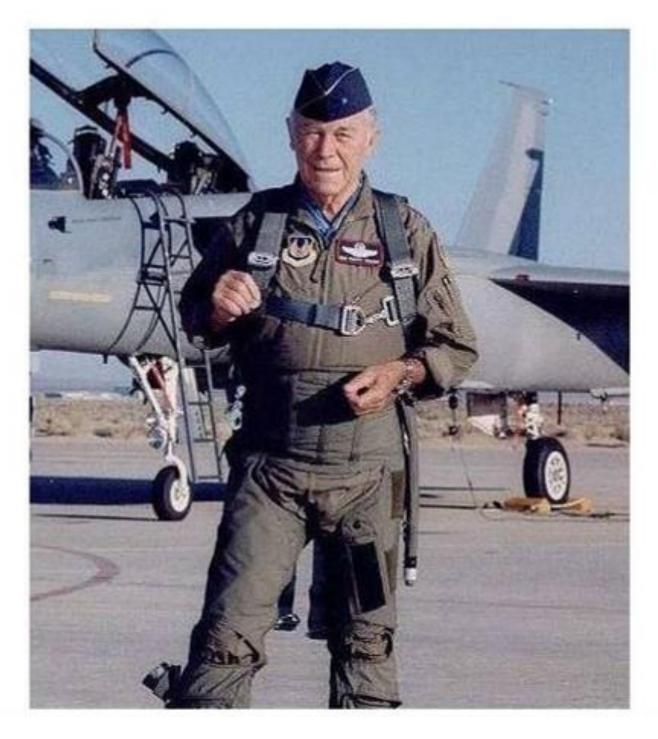
In 2019, the Council, in collaboration with the American Society for Quality (ASQ), established the Quality Engineer of the Year award, which recognizes individuals who have achieved significant career accomplishments in the field of quality engineering. In 2019, the Council also updated the artwork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





In Memoriam Brigadier General Charles E "Chuck" Yeager



Thank you for your service to our country and for your continuous support to The Engineers' Council.

You will be forever missed.





Sponsors and Partners





















NORTHROP GRUMMAN



School of Engineering









Presenters

Welcome

Sonja Domazet

Northrop Grumman Corporation

Future Technology Leader Awards

Thomas R. Tarn

Aerojet Rocketdyne

Outstanding Engineering Merit Awards

Kevin T. Knudsen

The Boeing Company

Distinguished Engineering/Educator Achievement Awards

Kenneth G. Davis

Amaero

Quality Engineer of the Year Award

Eli G. Stiny

Ernst & Young

Distinguished Engineering Project Awards

Stephen Guine

Northrop Grumman Corporation





MISSION READY







INVESTING IN AND ADVANCING







CUTTING EDGE TECHNOLOGIES



rocket.com





Future Technology Leader Award

Jeffrey Amirian Amaero El Segundo, California



In recognition of outstanding engineering efforts during the construction, commissioning, and qualification of Amaero's first metal additive manufacturing facility in North America

Paul BabalaLockheed Martin
Fort Worth, Texas



For outstanding work in the field of artificial intelligence modeling, simulation, and integration

Robert Barnhart Lockheed Martin Fort Worth, Texas



For exceptional technical leadership and unique skills in artificial intelligence, algorithm development and adaptation, rapid software development and tooling, and for extreme passion and dedication on numerous technology development programs

Dr. Jamie BoothCalifornia State University, Northridge
Northridge, California



For the contribution of novel research in the field of bioinspired materials, and establishment of the Bioinspired Mechanics Lab at CSUN

Sarah Crawford Aerojet Rocketdyne Canoga Park, California



For demonstration of technical skill and contributions in the design of attitude and divert thruster propulsion

Kai Dougan *Lockheed Martin Palmdale, California*



In recognition of new systems engineering processes and architectures developed in support of the digital design environment





Future Technology Leader Award

Corbin Dunn

Aerojet Rocketdyne Huntsville, Alabama



For exceptional leadership in the design and manufacturing of nozzles for tactical and strategic class development programs

Adrian Inghilterra

Aerojet Rocketdyne Canoga Park, California



For outstanding technical growth and performance in the area of combustion devices design and thruster design and integration

Briana Landavazo

Northrop Grumman Corporation Woodland Hills, California



In recognition of outstanding technical leadership and innovation from simulation and analysis pertaining to system level requirements to assembly level processes resulting in very high internal and external customer satisfaction

Jacob Muench

Lockheed Martin Palmdale, California



For expert contributions to airframe structure and complex mechanism design in extreme environments

Leana Osmer

Aerojet Rocketdyne Canoga Park, California



For outstanding and reliable leadership, and for addressing and resolving multiple and varied RS-68 System hardware issues

Dr. Kelsa Palomares

Analytical Mechanics Associates
Huntsville, Alabama



For technical leadership and contributions in the design, testing, and experimental investigation of novel concepts for space nuclear propulsion (SNP) through inter-agency development programs and mentoring of young professionals





Future Technology Leader Award

Britton Reynolds *Aerojet Rocketdyne*



For outstanding technical performance and academic outreach as a young engineering professional in the area of Space

Mission Architecture

Anthony Rogers

Northrop Grumman Corporation

Woodland Hills, California



In recognition of innumerable contributions to Northrop Grumman and beyond through impactful technical and people leadership, mentorship, and volunteerism in service of others

David RosenwasserNorthrop Grumman Corporation
Woodland Hills, California



For excellence in technical performance and leadership, along with impressive commitment and integrity of character

Dr. Subhradeep RoyCalifornia State University, Northridge
Northridge, California



For innovative research in complex systems that initiated an interdisciplinary research laboratory at California State University, Northridge, and for commitment to value-added education for our students and solutions to societal problems

Dr. Vinicius SauerCalifornia State University, Northridge
Northridge, California



For outstanding contributions to understanding microcombustion systems processes through the development of analytical and experimental diagnostic techniques allowing the study of new small-scale configurations and the investigation of new fuels

Garrett Urban Aerojet Rocketdyne Redmond, Washington



For outstanding technical growth and performance in the area of mechanical design of modular propulsion systems, divert and attitude control systems, and electric propulsion thrusters











Outstanding Engineering Achievement Merit Award



Dr. Barry Bauer *Lockheed Martin Palmdale, California*



Joshua Brander Lockheed Martin Palmdale, California

In recognition for exemplary leadership of the Lockheed Martin hypersonic research team and synergistic engagement with academia to accelerate the rate of technical innovation and development of the talent pool

For expert fuel system support across multiple programs and mentoring the next generation of subsystems engineers



Dr. John CarlssonUniversity of Southern
California
Los Angeles, California



Philip Clark

Northrop Grumman

Corporation

Woodland Hills, California

For innovative contributions to mathematical optimization problems in coordinated logistics operations

For outstanding accomplishment in the development and delivery of a first ever all-MEMs IMU, and for excellence in problem solving and a passion for engineering, inspiring our team



Robert Cooper Aerojet Rocketdyn Huntsville, Alabama



Steven FilkinAerojet Rocketdyne
Canoga Park, California

For exceptional leadership in controllable solids propulsion development and design

For contributions to the engineering profession in the technology of metal plating and finishing, specifically providing subject matter expertise in electrodeposition





Outstanding Engineering Achievement Merit Award



Dorna Moshir Northrop Grumman Corporation Woodland Hills, California



Holly Odum Ryan Aerojet Rocketdyne Huntsville, Alabama

For outstanding contributions in the design, simulation, and evaluation of high sensitivity, low noise, and large dynamic range electronics enabling next generation inertial sensors and systems

For outstanding leadership of multiple software development projects supporting Missile Defense Programs at Aerojet Rocketdyne



Chi Poon

Northrop Grumman

Corporation

Woodland Hills, California



David TungNorthrop Grumman
Corporation
El Segundo, California

For outstanding performance in design and modeling of the IMU software for the EGI-M program, undertaking implementation of complex legacy algorithms within MBE, and assuring safety critical design standards

In recognition of excellent technical and leadership skills in support of Northrop Grumman's Distributed Autonomy / Responsive Control Program

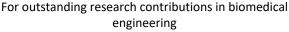


Russell Turner Lockheed Martin Fort Worth, Texas



Dr. John ValdovinosCalifornia State University,
Northridge
Northridge, California

In recognition of outstanding contributions to Airborne Autonomy Systems, including the F-35 Automatic Integrated Collision Avoidance System





Dr. Cristina ZavaletaUniversity of Southern California
Los Angeles, California

For outstanding engineering achievements in the discovery and development of a new source of multimodal contrast agents for biomedical imaging applications











Kimberly Abadillo
Palmdale High School

California State
University, Long Beach

Mechanical Engineering



Maraya Carbajal Canoga Park High School

California State
University, Northridge

Mechanical Engineering



Ashley ChonWest High School

University of California, Berkeley

Chemical Engineering



Valentina Costarelli Quartz High School

California Institute of Technology

Computer Science



Yovani Gaytan *Desert Mirage High School*

California State University, Fresno

Civil Engineering



Cynthia Ge West High School

University of California, Berkeley

Applied Mathematics



Sophia Gonzales Shadow Hills High School

University of California, San Diego

Bioengineering



Jonah Henry Taft High School

University of California, Berkeley

Aerospace Engineering



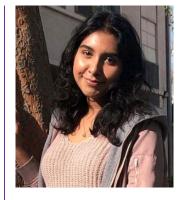




Christopher Herrera Chaminade High School

Harvey Mudd College

Computer Science



Maliha Hossain Reseda High School

California Polytechnic State University, San Luis Obispo

Bioengineering



Philip JohnsonDa Vinci High School

University of California, San Diego

Computer Science



Lauren Johnstone *Notre Dame High School*

University of Southern California

Mechanical Engineering



Jose Juarez *Monroe High School*

Bucknell University

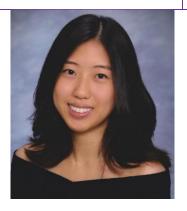
Electrical Engineering



Jacob Levinson
El Camino High School

University of California, Los Angeles

Bioengineering



Rachel LinOak Park High School

University of Southern California

Biomedical Engineering







Earl Lontok Narbonne High School

Computer Science

Rutgers University



Danetti Martino *Palm Desert High School*

California State University, Long Beach

Aerospace Engineering



Koray Mentesoglu Redondo Union High School

University of California, Berkeley

Civil Engineering



Paola Sanchez Knight High School

University of California, San Diego

Mechanical Engineering



Chinwendu Ufondu *Granada High School*

Butte College

Civil Engineering



Bella WangLa Reina High School

Wake Forest University

Mathematics



Grace Weilbacher *Quartz Hill High School*

Auburn University

Mechanical Engineering











COLLEGE OF
ENGINEERING AND
COMPUTER SCIENCE



Scholarship Recipient Thomas Parashos





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Lockheed Martin Skunk Works@ embraces purposeful innovation. We are proud to celebrate 65 years of supporting the U.S. Air Force's mission with the U-2, the most capable high-altitude ISR system in the fleet today. The aircraft continues to transform the battlespace, proving emerging technologies and helping our armed forces envision a new way to fight and return home safety.

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Lockheed Martin. Your Mission is Ours.*







Distinguished Engineering Achievement Awards



Patrick Chastain Aerojet Rocketdyne Huntsville, Alabama

intsville, Alabama

Charles Hoover
Aerojet Rocketdyne
Canoga Park, California

For exceptional leadership in the design and manufacturing of composite cases and structures for solid propulsion systems and armaments

For a career of invaluable contributions to design of turbomachinery as well as leadership and mentorship to design teams in the development of turbomachinery used on propulsion systems



Dr. Alice ParkerUniversity of Southern
California
Los Angeles, California



Chandrakant Patel
Northrop Grumman
Corporation
Woodland Hills, California

For significant contributions to neuromorphic engineering that advanced the field, and for demonstrating success in incorporating the intricacies in biological neurons and the brain

For distinguished contributions to the development of commercial and military inertial navigation systems and airworthiness certification processes, as well as dedication to fostering innovation, product assurance, and affordability



Dr. James Sears *Amaero El Segundo, California*



James Whitaker NASA, Marshall Space Flight Center MSFC, Alabama

In recognition of a distinguished career dedicated to the invention of countless new technologies in powder metallurgy and metal additive manufacturing and for exemplary engineering leadership and mentorship

For outstanding leadership to the International Space Station payload operations at MSFC and dedication to the pursuit of engineering excellence





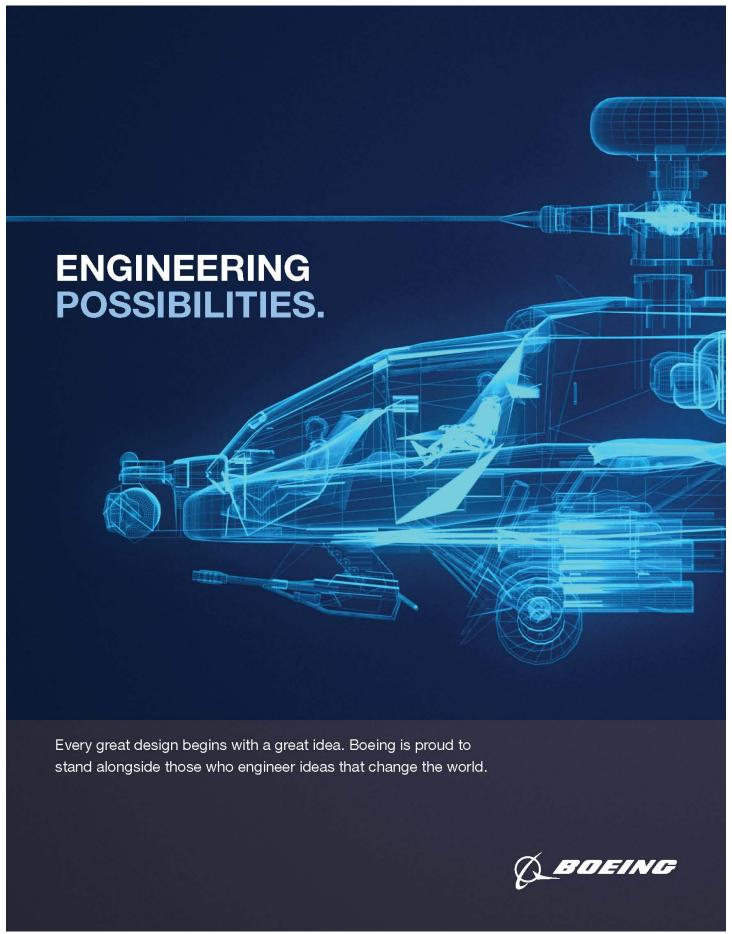
In Memoriam A F. Ratcliffe, PhD



Dr. Alfonso F. "Rick" Ratcliffe, was past president of the Engineers' Council (1989, 1990) and Trustee. He served as dean of the College of Engineering and Computer Science for more than a decade in the 1980s and early '90s. His early engineering work included time as a test engineer at Rototest Laboratories. From 1969-74, before turning to teaching, he worked in design and manufacturing at Mattel, Inc. Dr. Ratcliffe distinguished himself as an engineer, scientist, consultant and educator. He was known for his ingenuity, versatility, and analytical ability. Dr. Ratcliffe passed away on Nov. 27, 2020, at the age of 92. He will be remembered forever as an accomplished engineer and beloved teacher and friend.











Quality Engineer of the Year Award

Presented To:

Jose A. Lazalde

Quality Director

Abbott Laboratories

Sylmar, California



Jose's professional achievements are not readily measured, but rather consist of the lives saved, the hearing and sight restored, and the relief of pain provided to patients and users of the active medical implants that he has worked on over the past several decades. In his roles as Quality Engineer and Quality Director, José ensured the reliability of these life-changing devices. Beyond his professional work, José has also helped mentor and develop the next generation of engineers who work in the Quality field. José is an active supporter of local ASQ chapters in the San Fernando Valley and San Gabriel Valley. His presentation on CAPA was one of the best-attended chapter meetings. Dozens of Abbott employees have joined ASQ and earned their CQEs under José's sponsorship and on-site mentorship. José earned his B.A. in Chemistry from Whittier College in 1981 and has since earned the following ASQ certifications: Certified Reliability Engineer (CRE), Certified Quality Manager (CQM), Certified Quality Engineer (CQE), and Certified Six Sigma Black Belt (CSSBB). José is also a British Standards Institute (BSI) Certified Lead Auditor for ISO13485:2016. Some career highlights for José include leading the Quality Team that received the first Conformitè Europëenne (CE) Mark for a retinal prosthesis that restored sight to people. This same device also received FDA Approval while José led the Quality Department at Second Sight. While at Abbott Laboratories, José led the Design Assurance Team during the introduction of the second generation Confirm Rx Insertable Cardiac Monitor and Galant BLE enabled ICD. While leading Supplier Quality at Abbott's cardiac management division, José implemented the first Cyber Security controls for vendors.

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.

2012 Paul Buckley 2015 Lisa Strawn 2016 Ernesto Zepeda Past Recipients 2019 Dana J. Speece 2020 Michael Hebert





CONGRATULATIONS! NATIONAL ENGINEERS WEEK HONOREES!



The College of Engineering and Computer Science at Cal State Northridge congratulates its distinguished faculty and all Engineers Week honorees. We believe that engineers and computer scientists are problem solvers. and as we look to advance manufacturing, autonomy, energy, cybersecurity, artificial intelligence and more, we do so with the mindset that our work will make our world a better place.

www.csun.edu/ecs







Navigation & Inertial Measurement
System (NIMS) Technology Maturation
& Risk Reduction (TMRR) Program

Northrop Grumman Corporation Woodland Hills, California

NORTHROP GRUMMAN

In recognition of innovative solutions which led to successful completion of the Technology Maturation & Risk Reduction (TMRR) phase of a major Air Force program

Dr. Reza Ahmadi

Project Leader

Team Members:

Juan Aldana Frank Landavazo
Kenneth Brawner Gregory Levin
Eugene Elbert Kenneth Ply
Steve Follayttar Wayne Price
Jared Kim Romulo Quiliche
Jacob Kreeb David Reynolds
Briana Landavazo Aram Vartanian

Identifying and Reducing Risk Using Architectural MBSE Enhancement

Northrop Grumman Corporation Oklahoma City, Oklahoma



In recognition of excellence in developing a digital suite of tools for use throughout weapon system design, which identifies and mitigates hidden risks prior to build/test saving time and money

Jack Bell

Project Leader

Team Members:

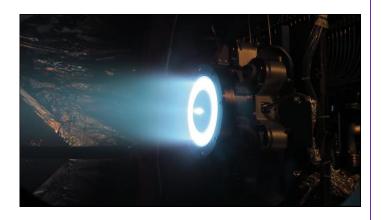
Brian Abney
Gaye Barnett
Kay Crews
Troy Kelly
Mark Kellum
Robbie Robertson
Christopher Schan





AEPS Thruster Development Test Team

Aerojet Rocketdyne Redmond, Washington



For outstanding technical achievement in planning and executing the development test program for the AEPS 12kW Hall Current Thruster

Derek Inaba

Project Leader

Team Members:

Nicholas Branch
Hoang Dao
Bonghan Kim
Jordan Neuhoff
Sam Trundle
Jonathan Zubair

Advanced Sensor Exploitation Program

Northrop Grumman Corporation Woodland Hills, California



In recognition of multi-year contributions to the success of the ASEP program

Paul Kendall

Project Leader

Team Members:

Michael Barlog Darrell O'Connell
Craig Gelpi Mark Reeve
Catherine Hayes Brian Schrack
Matt Husman Timothy Scott
Stephen Kellogg David Shadovitz
Yusuf Kinkhabwala Eric Strom
Alan Marcus Mark Williams





SLC-6 & SLC-37 He Spin Start Regulator Verification Team

Aerojet Rocketdyne Stennis, Mississippi



For rapid and effective support and testing to a Delta-IV customer spin start facility anomaly, clearing delivery of critical national security payloads to orbit with minimal disruption to RS-68A program

Bruce McLain

Project Leader

Team Members:

Cory Acosta Paul Jermyn
Christopher Barlog Pete Lamb
Justin Barras Brandon Moody
Thomas Booth Rodney Sampson
Kenneth Floore Otto Singleton
Carl Guichard Randall Strong
Kristi Gwinn Eric Vanderklis

NEXT-C/DART Test and Integration Team

Aerojet Rocketdyne Redmond, Washington



For outstanding technical achievement in the first thruster acceptance testing and system integration of the NASA Evolutionary Xenon Thruster (NEXT) system for the Double Asteroid Redirection Test (DART) mission

Jeff Monheiser

Project Leader

Team Members:

Barbara Angell Andy Hoskins
Chayse Aubuchon Chris Sebastian

Rob Dooley Phousone Soukchareun

Brian Ferraiuolo Sam Trundle
John Floccari Jamie Waldock
Amber Fritch Jasper Wang

Keith Goodfellow Chris Wordingham





Rapid Model Based Systems Engineering

Lockheed Martin Palmdale, California



In recognition of leadership in rapid model-based systems engineering to develop complicated integrated systems

Brijesh Patel

Project Leader

Team Members:

Abigail Gray William Grube Justin Masotti Vincent Midgley

Relight Flexstage Test Campaign

Aerojet Rocketdyne Huntsville, Alabama



For outstanding support of the execution of the Relight Flexstage Test Campaign, which met all test objectives

Michael Sears

Project Leader

Team Members:

Bruce Burbee Ruben Placencia
Marc Burrill Scott Smith
David Fugate Andrew Wanchek
Wade Kachadorian Kent Wong

Kevin Noonan





Advanced Full Range Engine Propulsion/Aero Testing

Lockheed Martin Palmdale, California



In recognition of test team leadership and technical ability beyond their years of experience while executing a hypersonic technology development contract, critical to US national security interests

Rosemary Urso

Project Leader

Team Members:

Carston Blue Ramesh Ganesh Russell Repasky





Credits

Honors and Awards Committee

Marek Z. Barylak Kevin Knudsen
Kenneth Davis Noelle Saccoccio
Sonja Domazet Robert B. Tarn
Paul Gill Thomas R. Tarn
Stephen Guine Jackie Zev

Event Committee

Kenneth Davis
Sonja Domazet
Stephen Guine
Kevin Knudsen
Noelle Saccoccio
Eli G. Stiny
Thomas R. Tarn
Jackie Zev

Awards Assembly

Kenneth Davis Jackie Zev
Don Schuster Marc Zev
Sue Schuster

Awards Artwork

Mike Matte Tatjana Odovic

Program Design

Sonja Domazet

Program Proof

Marek Barylak Noelle Saccoccio Susan Marcus Jackie Zev

Videography and Web

Stephen Guine

Charitable Giving Committee

Jerry Kraim Eli G. Stiny Rudy Montalvo Jackie Zev

In Memoriam Collage

Carolina Franco-Ardaghi, CSUN



