

18 May 2023

The John F. Kennedy Center for the Performing Arts Washington, DC



Velcome to the 2023 AIAA Awards Gala—celebrating our stars!

As members of the aerospace community, we find inspiration simply by looking skyward. Our careers have focused our gaze on air and space, through which we see the "stars" who we celebrate tonight. They have channeled their knowledge, curiosity, and ingenuity into their life's work to advance the fields of aeronautics and astronautics, resulting in notable achievements that we are here to honor. Congratulations to all our award recipients!

Chosen by their peers, tonight's AIAA Honorary Fellows, AIAA Fellows, and AIAA Premier Award winners play pivotal roles in shaping the next phases of our three domains: aeronautics, aerospace R&D, and space. We celebrate these exceptional visionaries who have built upon the work of great thinkers and inventors of the past. Innovation based on foundational knowledge links our rich heritage to our promising future.

Tonight, we celebrate three educators who have gone above and beyond to inspire the next generation of explorers and innovators. In partnership with Challenger Center, we honor the accomplishments of these inspiring teachers, recognizing them with the Trailblazing STEM Educator Award, and investing in their continued creativity to engage students' imaginations.

We are also inspired by the potential we see in four students who are receiving AIAA Kahn Scholarships tonight. These scholarships honor Roger W. Kahn's legacy of aviation enthusiasm and accomplishment begun nearly 100 years ago. It will remain relevant in the next 100 years of aviation and aerospace innovation largely due to these incredible high school students. We can't wait to see how they shape the future of aerospace!

Welcome to our venue tonight—The John F. Kennedy Center for the Performing Arts—which stirs our memory and our creativity. We will share a unique experience here celebrating aerospace excellence in a place dedicated to arts excellence, both such meaningful aspects of President John F. Kennedy's legacy.

We hope you enjoy the evening!



Laura J. McGill

AIAA President



Daniel L. Dumbacher

AIAA Executive Director

ORDER OF EVENTS

Welcome Remarks

National Anthem

Class of 2023 Fellows Recognition

Class of 2023 Honorary Fellows Recognition

Presentation of Premier Awards

Presentation of Roger W. Kahn Scholarships

Presentation of Trailblazing STEM Educator Awards

Closing Remarks

Dessert Reception

THANK YOU TO OUR CORPORATE PARTNERS





CONGRATULATIONS

TO THE CLASS OF 2023 AIAA FELLOWS AND HONORARY FELLOWS!

(R. STEVEN JUSTICE, P.E.



The Ginn Group, Inc. congratulates you on your conferment to AIAA Fellow and for your many achievements and contributions as leader and innovator in the aerospace engineering industry.





The Ginn Group, Inc. www.theginngroup.com

200 Westpark Drive, Suite 100 Peachtree City, GA 30269

LOWS CLASS OF 2023

The title of a AIAA Fellow is granted to a person of distinction in aeronautics or astronautics, who shall have made notable and valuable contributions to the arts, sciences or technology.



Behcet Acikmese

Professor of Aerospace Optimization and Control University of Washington

For fundamental contributions to optimization-based guidance and control and its applications in planetary landing.



Steven J. Beresh

Distinguished Member of the Technical Staff Sandia National Laboratories

For outstanding and sustained contributions to high-speed wind tunnel experimentation using modern laser-based diagnostics for impact to national security applications and scientific advancements.



Charles F. Bolden Jr.

Founder & CEO Emeritus The Charles F. Bolden Group

For superlative service to the U.S. defense, aeronautics, and space exploration enterprises through personal dedication and lifelong passion, building a better future for everyone.



Helmut Ciezki

Coordinator Advanced Propellants and Propulsion Systems

DLR - German Aerospace Center

For notable contributions to the advancement of propulsion systems especially those using green liquid, gelled, solid, and hybrid propellants, and of ramjet and scramjet propulsion systems.



Capt. Meredith B. Colket III

Senior Fellow

Combustion Consulting Services, LLC / United Technologies Research Center

For scientific and engineering contributions to augmentor flame stability, endothermic fuels for X-51 scramjet, low emission and fuel effects on combustor designs, and criteria for sustainable aircraft fuels.



Christopher D'Souza

Deputy Branch Chief, EG6; Navigation Technical Discipline Lead NASA Johnson Space Center For seminal contributions to the theory and practice of autonomous guidance, navigation, and control of space vehicles.



Daniel DeLaurentis

Professor Purdue University

For advancing modeling and simulation techniques and design methods for complex aerospace vehicles and system of systems.



Ismet Gursul

Professor of Aerospace Engineering University of Bath

For outstanding technical contributions in vortex-dominated flows and unsteady aerodynamics, and sustained editorial contributions to the science of aeronautics.

LOCKHEED MARTIN CELEBRATES

the distinguished 2023 Class of AIAA Honorary Fellows, Fellows and Premier Awardees.

We are proud to support AIAA and our employee members as they shape the future of aerospace. Special congratulations to our new Fellows and Engineer of the Year!

AIAA Fellow



Rodney Makoske
Chief Engineer and Senior Vice
President, Engineering & Technology
Lockheed Martin

AIAA Fellow



Lawrence Stephens
Director, Engineering Transformation
Lockheed Martin Missiles and
Fire Control

AIAA Engineer of the Year



Alison Nordt

Director, Space Science &
Instrumentation
Lockheed Martin Space





AA FELLOWS CLASS OF 2023





Kauser S. Imtiaz Technical Fellow, Structures NASA (retired)

For distinguished contributions to aviation and space operations, advancement of structures discipline, and inspirational leadership in engineering, safety, and knowledge transfer.



Pamela Melroy Deputy Administrator NASA

For extraordinary contributions to the aerospace profession in the United States and internationally through military and civilian service. spaceflight, engineering, and research excellence.



R. Steven Justice Chief Innovation Officer The Ginn Group

For technical contributions advancing integrated analytical techniques, leadership supporting and growing the aerospace industry, and a lifetime of service to the community.



David G. Mitchell

President Mitchell Aerospace Research

For industry-defining research and globally recognized leadership in flying qualities, handling qualities, and PIO evaluation in both fixed-wing and rotary-wing vehicles.



Raymond M. Kolonay

Director, Multidisciplinary Science and Technology Center Air Force Research Laboratory

For visionary leadership and scientific and engineering contributions to the field of multidisciplinary analysis and design optimization for aerospace vehicles.



Eugene A. Morelli

Research Engineer NASA Langley Research Center

For technical leadership and innovative contributions in the field of aircraft system identification, with applications to flight testing, flight mechanics, simulation, and flight control systems.



Rodney Makoske

Chief Engineer and Senior Vice President, Engineering & Technology Lockheed Martin

For a unique impact on the profession of engineering, delivering technical program excellence and leading a diverse, highly-skilled workforce.



Scott E. Palo

Schelke Endowed Professor University of Colorado Boulder

For pioneering leadership in the conception, design, implementation, and operation of small satellites for scientific applications, and the development of educational programs in small satellites.



Jill Marlowe

Digital Transformation Officer

For exceptional, relentless leadership in transforming aerospace capabilities through advanced digital tools, emerging technologies, and modern methods that enable future aerospace solutions.



Surendra Sharma

Senior Space Technology Advisor NASA Ames Research Center

For extremely valuable contributions and leadership in chemical nonequilibrium and radiative heat transfer related to reentry vehicles and other space exploration enabling technologies.



Aerojet Rocketdyne
Congratulates
Jim Maser
on his selection as an
AIAA Honorary Fellow
and the other
members of the
AIAA 2023 Fellows and
Honorary Fellows class.



Jim MaserAerojet Rocketdyne Senior Vice President,
Space Business Unit

AIAA FELLOWS CLASS OF 2023



Robert T.-I. ShinPrincipal Staff
MIT Lincoln Laboratory

For technical accomplishments in the development of advanced air vehicle systems and initiating extensive hands-on project-based STEM outreach efforts.



Rickey J. Shyne

Director, Research & Engineering Directorate NASA Glenn Research Center

For outstanding personal contributions to and exemplary leadership of research and development activities in NASA's aeronautics research and space exploration programs.



Leena Singh

Senior Technical Staff MIT Lincoln Laboratory

For developing robust, optimal guidance and control algorithms, including novel attitude determination and control methods, across a range of spacecraft, aircraft, and hypersonic reentry platforms.



Michael Sinnett

Vice President & General Manager, Product Development Boeing Commercial Airplanes

For leadership in commercial aircraft and aircraft systems development, creating improvements in performance and cost.



Lawrence W. Stephens

Research Engineering Director Lockheed Martin Missiles and Fire Control

For exceptional technical leadership in missile systems engineering and flight technologies that has advanced the performance and capability of leading-edge missiles and fire control systems.



Mitchell L.R. Walker II

Professor Georgia Institute of Technology

For outstanding leadership and advancement of high power electric propulsion research, testing, and future workforce development.



Brian L. Wardle

Professor

Massachusetts Institute of Technology

For contributions in both the science and engineering of nanostructured and nanoengineered composite materials and devices for aerospace applications, and the education of future aerospace leaders.



Michael E. White

Principal Director, Hypersonics
Office of the Under Secretary of
Defense for Research and Engineering

For sustained technical excellence and national leadership in the field of hypersonics for both offensive and defensive weapon systems.



Michael Winter

Principal Fellow, Advanced Technology
Pratt & Whitney

For advancing our knowledge of aerospace combustion processes and bringing model-based control to a variety of aerospace systems.



Thomas H. Zurbuchen

Associate Administrator, Science Mission Directorate NASA (retired)

For exceptional leadership and innovative mission management, and for successfully planning and executing the NASA Science mission portfolio leading to unprecedented science.



AIAA HONORARY FELLOWS CLASS OF 2023

The title of Honorary Fellow, the highest distinction conferred by AIAA, is granted to preeminent individuals who have long and highly contributory careers in aerospace, and who embody the highest possible standards in aeronautics and astronautics.



Mark Drela Terry J. Kohler Professor Massachusetts Institute of Technology

For unique, sustained contributions to a broad range of pathbreaking aircraft designs and for development of widely used aircraft design software.



James G. Maser Senior Vice President, Space Aerojet Rocketdyne

For exceptional, visionary leadership and innovation in the design, development, and operation of propulsion and space launch systems for the U.S. and international markets



William A. Sirignano
Distinguished Professor of
Mechanical and Aerospace

Engineering University of California, Irvine

For pioneering research in combustion dynamics, atomization and spray, and innovative concepts for propulsion and power, as well as outstanding educational leadership and professional service.

Congratulations

AIAA Engineer of the Year Award

The AIAA Engineer of the Year Award is presented to an AIAA member who has made a recent, individual, technical contribution in the application of scientific and mathematical principles leading to a significant technical accomplishment.

Congratulations



Alison A. Nordt

Director, Space Science & Instrumentation

Lockheed Martin Advanced Technology Center

For exceptional engineering and technical leadership in the development of the Near Infrared Camera critical to the success of the James Webb Space Telescope.

Alison Nordt is the director for Space Science and Instrumentation at Lockheed Martin's Advanced Technology Center. She is responsible for developing and operating missions that provide observational data to advance space science knowledge. Her work involves maturing technology to support current and future space-based telescopes and instruments. She is currently the principal investigator for TechMAST (Technology Maturation for Astrophysics Space Telescopes) and related internal research and development efforts.

Previously, Nordt was the senior manager for Astrophysics and held several roles on the NIRCam program, including program manager, Integrated Product Team Lead and Certified Principal Engineer. She was responsible for the design, development, testing, and delivery of the NIRCam instrument including optics, structures, mechanisms, electronics, and software. She also held responsibility for programmatic performance including cost and schedule execution and post-delivery support.

Nordt has an extensive engineering background in structures, opto-mechanical systems, and instrument development including design, analysis and hands-on hardware experience through integration and test.

Nordt holds Ph.D. and M.S. degrees in Aeronautics and Astronautics from Stanford University and a B.S. degree in Mechanical Engineering from Cornell University. She is an AIAA Associate Fellow and serves on the Board of the Planetary Science Institute.

PAST AWARD RECIPIENTS: AIAA Engineer of the Year Award

1990 Clarence J. Wesselski 1991 Frank C. Gillette, Jr. 1992 Antonio L. Elias 1993 Domenic J. Maglieri 1994 Roland L. Bowles 1995 George S. Springer 1996 Preston A. Henne 1997 David M. Urie 1998 Tommaso P. Rivellini Leonard M. Weinstein 1999 2000 Krishan K. Ahuja

2001 Steven X. Bauer
2002 Scott Winship
2003 William M. Parks
2004 Paul M. Munafo
2005 Prasun N. Desai
2006 Thomas J. Horvath
2007 Elbert L. Rutan
2008 William Harrison III
2009 Frederick R. Schauer
2010 Michael G. Giblert
2011 Jay M. Brandon

John P. Clark 2012 2013 Rob Williams 2014 William B. Blake 2015 William J. Emrich, Jr. 2016 Robin J. Osborne Michael Keidar 2017 2018 Rodger E. Farley 2019 Timothy Dominick 2020 Andrew T. Klesh Humberto Silva III 2021 2022 Paul R Gradl



AIAA Lawrence Sperry Award

The Lawrence Sperry Award is presented for a notable contribution made by a young person, age 35 or under, to the advancement of aeronautics or astronautics. This award honors Lawrence B. Sperry, pioneer aviator and inventor, who died in 1923 in a forced landing while attempting a flight across the English Channel.

Congratulations



Phillip J. Ansell

Associate Professor University of Illinois at Urbana-Champaign

For outstanding contributions to electrified aircraft technologies and pioneering work toward sustainable aviation.

Phillip J. Ansell is an Associate Professor and Allen Ormsbee Faculty Scholar in the Department of Aerospace Engineering at the University of Illinois. He is the Director of the Center for Sustainable Aviation (CSA) and the Director of the Center for High-Efficiency Electrical Technologies for Aircraft (CHEETA). He is also the current Chair of the AIAA Electrified Aircraft Technology Technical Committee.

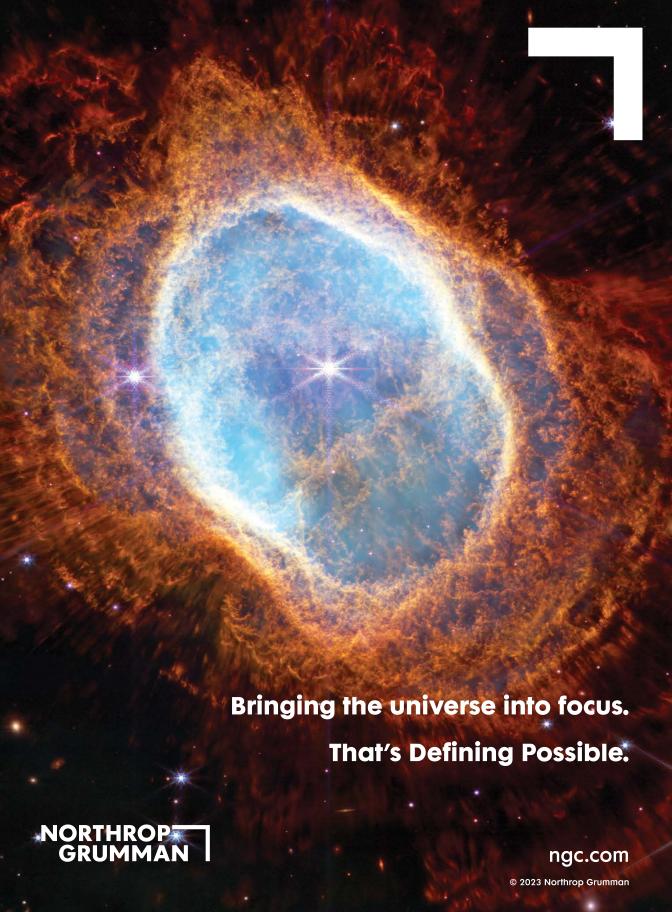
Prof. Ansell earned his Ph.D. (2013) and M.S. (2010) in Aerospace Engineering from the University of Illinois at Urbana-Champaign, and his B.S. (2008) in Aerospace Engineering from Penn State University. He is the principal investigator of a NASA University Leadership Initiative multi-disciplinary program focused on developing advanced technologies for zero-emissions aircraft. His primary areas of work include subsonic and transonic aerodynamics, sustainable aviation, aero-propulsive integration, and air-vehicle design.

In recognition for his efforts he has been granted Young Investigator Awards from ARO and AFOSR and was included on the list of Forbes 30 Under 30 under the Science category. He has also received several distinctions from his resident institution, including the Dean's Award for Excellence in Research and the College of Engineering Teaching Excellence Award.

PAST AWARD RECIPIENTS: AIAA Lawrence Sperry Award

1990 Ilan M. Kroo 1991 Mark Drela 1992 John T. Batina 1993 Tim Barth 1994 William K. Anderson 1995 William P. Schonberg 1996 Penina Axelrad 1997 John Kallinderis lain D. Boyd 1998 1999 Robert D. Braun 2000 Anna-Maria R. McGowan 2001 Keith A. Comeaux 2002 Edward C. Smith 2003 Myles L. Baker 2004 Jeffrey D. Jordan 2005 Tim C. Lieuwen 2006 Lynn Nicole Smith 2007 Amy Pritchett 2008 Ryan P. Starkey 2009 Adam Rasheed 2010 Mitchell L. Walker, II 2011 M. Brett McMickell

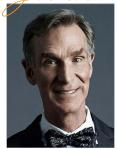
Hamsa Balakrishnan 2012 2013 Eric J Ruggiero 2014 Kimberley C. Clayfield 2015 Jeremy T. Pinier 2016 Joshua Rovey 2017 Karen T. Berger 2018 Michael D. West 2019 Katya M. Casper Patrick Neumann 2020 Benjamin Jorns 2021 2022 Michael P. Snyder



AIAA Public Service Award

The highest recognition AIAA bestows to a person outside the aerospace community who has shown consistent and visible support for national aviation and space goals.

Congratulations



Bill Nye

Chief Executive Officer
The Planetary Society

For demonstrating sustained and visible support for aviation and space goals through popular media outreach.

Bill Nye is The Planetary Society's Chief Executive Officer (CEO).

He has served as CEO since 2010, providing vision and guidance, leading key organizational decision making, and serving as the public face of the society.

He is best known as the host of the PBS children's science show *Bill Nye the Science Guy*, and for his many subsequent appearances in popular media as a science educator and advocate.

Nye joined The Planetary Society as a charter member when the organization was founded in 1980 and deepened his involvement over time. He joined the Board of Directors in 2005, taking on the role of President of the Board, and was elected to the position of CEO in 2010.

After earning a degree in mechanical engineering at Cornell University, Nye spent more than 20 years working as an engineer for the Boeing Corporation, Sundstrand Data Control (now Honeywell), and other engineering firms in the Seattle area. Drawing on his strengths in science and comedy, Nye went on to create, write, produce, and host the Emmy award-winning television show *Bill Nye the Science Guy* between 1993 and 1998. He continued his work in television with *The Eyes of Nye* in 2005 and *Bill Nye Saves The World* in 2017 and 2018. A documentary film about his life's work, *Bill Nye: Science Guy*, was released in 2017.

Nye has authored several books, including the New York Times bestseller *Undeniable, Unstoppable, and Everything All at Once*. He regularly appears on television, sharing his views on the importance of science and space exploration, and inspiring people of all ages to change the world for the better.

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PAST AWARD RECIPIENTS: AIAA Public Service Award

1989	V. June Scobee	2000	William Perry	2011	Richard John
1990	Walter Cronkite	2001	Congressman James	2013	Neil deGrasse Tyson
1991	Douglas S. Morrow		Sensenbrenner	2014	Kathie L. Olsen
1992	Senator E. J. (Jake) Garn	2002	Congressman Curt Weldon	2015	Congressman Ralph M. Hall
1993	Hugh Downs	2003	Eilene Galloway	2016	The Honorable Kay Ivey
1994	The Honorable Gerald L. Baliles	2004	Robert Walker	2017	Maj. Gen. Charles E. Bolden, Jr.
1995	Congressman George E. Brown	2005	Admiral Harold W. Gehman, Jr.	2018	George C. Nield
1996	The Honorable Norman Y. Mineta	2007	Congressman David L. Hobson	2019	Pamela A. Melroy
1997	Michael DeBakey	2008	Amanda Wright-Lane	2020	Steve T. Knight
1998	Senator Barbara A. Mikulski	2009	Duncan Copp	2021	Marcia S. Smith
1999	John Holliman	2010	Miles O'Brien	2022	HON Lori B. Garver

Congratulations, 2023 AIAA honorees



Michael Sinnett

Boeing Commercial Airplanes
2023 AIAA Fellow

David R. Riley
Boeing Research & Technology (retired)
2023 AIAA Distinguished Service Award



People are at the heart of our work. Boeing congratulates this year's AIAA Fellows, Honorary Fellows and Premier Award Winners.



AIAA Distinguished Service Award

AIAA recognizes an individual member who has provided distinguished service to the Institute over a period of years.

Congratulations



David R. Riley

Platform Subsystems Technology Team Lead Boeing Research & Technology (retired)

In recognition of over four decades of dedicated leadership and service to AIAA at the section, region, national, and international levels.

David Riley has served the Institute in many capacities from his student section and local St. Louis Section to the Board of Directors, and he's made many contributions that have had a lasting impact on the Institute.

He served as a member, secretary, and chair of the Atmospheric Flight Mechanics Technical Committee (TC) and chaired the 1993 Atmospheric Flight Mechanics Conference.

Riley served on the AIAA Board of Directors as a Director-at-Large, Engineering and Technology Management Group Director, Aerospace Sciences Group Director, and Vice-President of Technical Activities. In parallel with his many years of service on the AIAA Board of Directors, Riley served recurrently on the Audit Committee, Ethics Committee, Finance Committee, Institute Development Committee, and new Initiatives Subcommittee.

He served his local St. Louis Section as a member of the section's Advisory Council and has served recurrently as a judge at the AIAA Region III (Central) Student Paper Conference.

Riley has worked on high technology aerospace products for 40+ years while working for McDonnell Douglas and The Boeing Company. He made significant contributions to products that range from front-line fighter aircraft to transport aircraft, classified programs, and from VSTOL aircraft to winged spacecraft.

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PAST AWARD RECIPIENTS: AIAA Distinguished Service Award

1989	Andrew G. Morgan Jr.
1990	Donald J. Stone
1991	Lawrence W. Stephens
1992	William Macdonald
1993	Velice Bet-Sayad
1994	R. Steven Justice
1995	Roland J. Schoenhoff
1996	Patricia Moon Fresh
1997	George L. Siebert
1998	Doris Z. Lampe
1999	Philip D. Hattis

2002	L. S. "Skip" Fletcher
2003	John Swihart
2004	Abe M. Zarem
2005	Michael Francis
2006	Conrad Newberry
2007	William W. Vaughan
2008	John C. Blanton
2009	David Knowlen
2010	Arnold D. Aldrich
2011	G.P. "Bud" Peterson

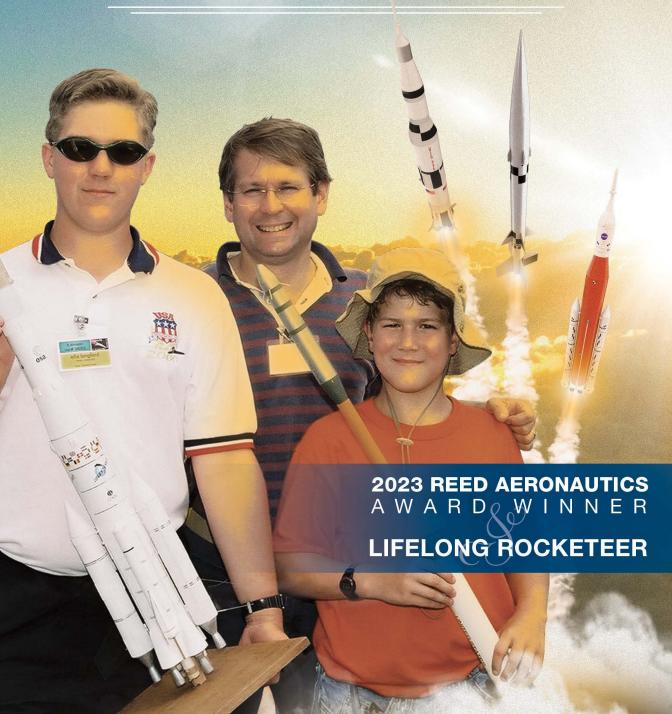
2000 Don Fuqua

2012	Donald Richardson
2013	A. Tom Smith
2014	Michael I. Yarymovych
2015	Roy V. Harris Jr.
2016	Tom D. Crouch
2017	Robert C. Winn
2018	Mary Snitch
2019	Klaus D. Dannenburg
2020	L. Jane Hansen
2021	Merri J. Sanchez

David A. Throckmorton



DR. JOHN LANGFORD



AIAA International Cooperation Award

AIAA recognizes an individual or individuals who have made significant contributions to the initiation, organization, implementation and /or management of activities with significant United States involvement that includes extensive international cooperative activities in space, aeronautics, or both.

naratulations



Vincent A. Orlando

Senior Staff MIT Lincoln Laboratory

For over 40 years of sustained technical innovation, standards development, and international harmonization of aviation surveillance system technology.

Vincent A. Orlando graduated from the University of Cincinnati in 1957 with a degree in electrical engineering, before going to work as an electrical engineer for General Electric on the Atlas Missile Guidance System and for Stanford Research on Military Command and Control Systems.

In 1959, Orlando entered Stanford University in an Operations Research Program and received a Master of Science in Statistics. He later received a Ph.D. in Systems and Information Science from Syracuse University and joined MIT Lincoln Laboratory in 1972.

Orlando was responsible for the software development of the Modes S Surveillance System, the application of Mode S technology to the TCAS Collision Avoidance System, and the development of the Extended Squitter ADS-B system.

Before any avionics system can be implemented, it must be standardized by the International Civil Aviation Organization (ICAO). For forty years he chaired an ICAO subgroup that was responsible for the continued development of the standards for Mode S and Extended Squitter. The success of this activity led to the worldwide implementation of Mode S and the initial implementation of Extended Squitter in many states.

PAST AWARD RECIPIENTS: AAIAA International Cooperation Award

1997 John H. McElroy 1998 Lvnn F. H. Cline 1999 Ian Pryke 2000 Mireille Gerard Richard H. Petersen 2001 George T. Schmidt 2002 Richard Kline 2003 D. Brent Smith®

2004 Margaret Finarelli 2005 Not presented

2006 William Gerstenmaier

2007 Graham Gibbs 2008 Peter M. Bainum 2009 John E. Lamar Dietrich J. Hummel 2010 Kenneth D. Hodgkins 2011 Not presented

2012 Jean-Michel Contant 2013 Scott Pace John E. LaGraff 2014

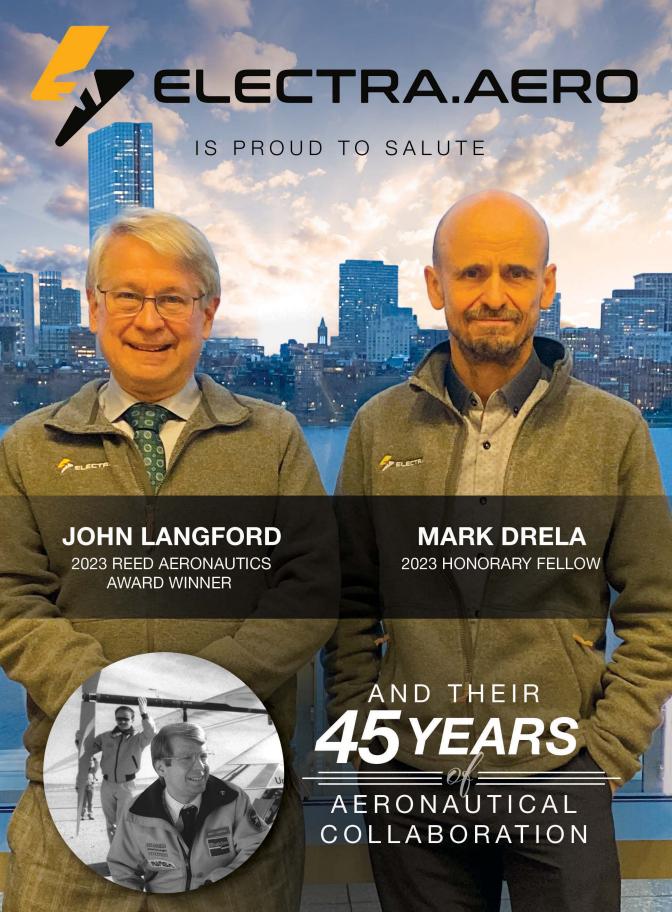
2015 Andreas Schuette Russell M. Cummings 2016 Simonetta Di Pippo 2017 Melissa B. Rivers John C. Vassberg Richard A. Wahls 2020 Jaiwon Shin

Joachim Szodruch Michael A. Gross 2021 Frank Flechtner Michael Watkins

Albert Zaglauer 2022 Dominique Collin

For a full list of recipients:

aiaa.org/international-cooperation-award



AIAA Reed Aeronautics Award

The highest honor AIAA bestows for notable achievement in the field of aeronautics. The award is named after Dr. Sylvanus A. Reed, the aeronautical engineer, designer, and founding member of the Institute of the Aeronautical Sciences in 1932. Reed was the first to develop a propeller system composed of metal rather than wood. His aluminum alloy propeller gave Jimmy Doolittle's plane the speed it needed to win the 1925 Schneider Cup race and brought the inventor much credit and many rewards.

Congratulations



John S. Langford III

Founder & CEO Electra.Aero

For exemplary achievement as an outstanding aeronautical engineer, visionary leadership in the development of autonomous flight, and relentless advocacy of the future aerospace workforce.

John S. Langford is the CEO of Electra.aero, which he founded in 2020 to develop sustainable aviation solutions for regional mobility. In 1989 he founded Aurora Flight Sciences, which he led until 2019. Aurora was acquired by Boeing in 2017.

A native of Atlanta, Georgia, Langford earned his bachelors, masters, and doctorate degrees from MIT. While at MIT, Langford organized and led the Daedalus Project, which in 1988 shattered the world distance and endurance records for human-powered flight with a 72-mile flight between the Greek islands of Crete and Santorini.

Prior to starting Aurora, Langford worked for Lockheed Corporation, the White House Office of Science and Technology Policy (OSTP), and the Institute for Defense Analyses (IDA).

Langford was elected to the National Academy of Engineering in 2018. He is an AIAA Fellow and served as AIAA President from 2018 to 2020. He has worked on over 100 new aircraft development programs, many of which he organized and led.

Langford is a lifelong aeromodeller and a passionate STEM education advocate. He and his family own Estes Industries, the world's leading manufacturer of model rockets and model rocket engines.

PAST AWARD RECIPIENTS: AIAA Reed Aeronautics Award

1987 R. Richard Heppe 1988 Brian H. Rowe 1989 Jon Patierno 1990 Bernard L. Koff 1991 Richard H. Petersen 1992 James N. Krebs 1993 Charles A. Zraket 1994 Ben R. Rich 1995 Wolfgang Herbst 1996 Alan Mulally George G. Field 1997 1998 Roy V. Harris Jr.

1999 James A. "Micky" Blackwell Jr. 2000 Sheila E. Widnall 2001 Elbert L. Rutan 2002 Robert A. K. Mitchell 2003 Dain Hancock 2004 Heinz Erzberger 2005 Ralph Heath 2006 Holt Ashley 2007 Meyer (Mike) Benzakein

2005 Raiph Heath 2006 Holt Ashley 2007 Meyer (Mike) Benzakein 2008 Alain Garcia 2009 Anatol Roshko 2010 Eugene Covert

David A. Peters 2011 2012 Preston Henne 2013 Paul Kaminski 2014 Ben T. Zinn 2015 Ramesh K. Agarwal 2016 Earl Dowell 2017 Edward M. Greitzer 2018 Mark Drela 2019

2019 Philippe R. Spalart2020 Alan C. Brown2021 Michimasa Fujino2022 Peretz P. Friedmann

AIAA Goddard Astronautics Award

The highest honor AIAA bestows for notable achievement in the field of astronautics. It was endowed by Mrs. Goddard in the 1940s as the ARS Goddard Memorial Award to commemorate her husband, Robert H. Goddard—rocket visionary, pioneer, bold experimentalist, and superb engineer whose early liquid rocket engine launches set the stage for the development of astronautics.

NASA GODDARD-NORTHROP GRUMMAN TEAM JAMES WEBB SPACE TELESCOPE

For delivering groundbreaking engineering performance for the James Webb Space Telescope, to advance the study of every phase of cosmic history.



Charles Atkinson

Director and James Webb Space Telescope Chief Engineer Northrop Grumman

Charlie Atkinson has 37 years of technical and program management experience in civil space, defense, and aerospace industry development

programs. Since March 2019, Atkinson has been the James Webb Space Telescope (JWST) Chief Engineer, responsible for the technical success of the mission.

Prior to becoming JWST Chief Engineer, Atkinson was the Northrop Grumman Deputy Telescope Manager for JWST since program inception, managing the technology development, design, assembly, and test of the first large aperture, deployable, segmented telescope to be put in space.

Before JWST, Atkinson was responsible for the integration and alignment of the grazing incidence cylindrical mirrors on the Chandra X-Ray Telescope and other spaceborne optical systems.

Atkinson received his B.S. in Physics, Math, and Geophysics from Washington and Lee University in Virginia. He has twice been awarded an Engineers' Council Distinguished Engineering Achievement Award, as well as the Robert H. Goddard Exceptional Achievement Award in Engineering, the NASA Exceptional Public Service Medal, and the NASA Distinguished Public Service Award. He also has been awarded five Northrop Grumman Chairman's Awards, the Aviation Week Program Excellence Award, and he holds a patent for a telescope design using a discontinuous pupil corrector.



Lee D. Feinberg

James Webb Space Telescope Optical Telescope Element Manager

NASA Goddard Space Flight Center

Lee Feinberg has been the Optical Telescope Element (OTE) Manager and optics

lead for the James Webb Space Telescope at NASA Goddard Space Flight Center in Greenbelt, Maryland, since 2002, Earlier in his career, Feinberg was the Assistant Chief for Technology in the Instrument Systems and Technology Division at Goddard. Prior to that, Feinberg held several roles as part of the optical team that repaired the Hubble Space Telescope on Serving Mission-1. He was the Space Telescope Imaging Spectroscope Instrument Manager on Servicing Mission-2 and he co-led the concept study for Hubble Wide Field Camera-3. Feinberg was a member of the Science and Technology Definition teams that led to the recently started Habitable Worlds Observatory and he is a member of the Roman Space Telescope Standing Review Board. His research focuses on large and ultra-stable telescopes.

Feinberg is a Fellow of the Society of Photo-Optical Instrumentation Engineers (SPIE) and a NASA Goddard Space Flight Center Senior Fellow. He has received numerous NASA awards including the 2022 NASA Distinguished Service Medal and the Goddard Moe Schneebaum Memorial Award. Feinberg has a B.S. in Optics from University of Rochester and a M.S. in Applied Physics from Johns Hopkins University.



Jennifer Love-Pruitt

Northrop Grumman Fellow. Space Vehicle System Engineering

Northrop Grumman

Jennifer Love-Pruitt is a Technical Fellow in the Strategic Space Systems Division of Northrop Grumman Space Systems.

As a Northrop Grumman Fellow Love-Pruitt is recognized as a Space Vehicle System Engineering leader leveraging her technical knowledge to solve complex challenges across a range of the company's programs.

Love-Pruitt dedicated a significant portion of the past decade to providing technical leadership to the System Engineering and Electrical Vehicle Engineering teams on the James Webb Space Telescope, the largest, most complex, and powerful space telescope ever launched. In this role she led the Webb teams responsible for all major electrical spacecraft systems. Love-Pruitt served in positions of increasing responsibility across her 40-year career with Northrop Grumman and legacy TRW. She has been the System Engineering lead on a range of restricted programs meeting extremely challenging mission objectives. Love-Pruitt was also the associate Principal Investigator on a research effort contributing to the development of an avionics product line. She has enjoyed tackling a wide range of spacecraft technical challenges, from design and test, to system architecture definition, to launch and operations support.

Love-Pruitt received a B.S. in Electrical Engineering from Valparaiso University and M.S in Electrical Engineering from the University of Southern California.



Michael T. Menzel

NASA JWST Mission Systems Engineer

NASA Goddard Space Flight Center

Michael Menzel has worked for 41 years in aerospace, 23 years in industry, and 18 years for NASA. He is currently

the NASA Mission Systems Engineer (MSE) for the James Webb Space Telescope (JWST).

Menzel received a B.S. in Physics from the Massachusetts Institute of Technology in 1981 and an M.S. in Physics from Columbia University in 1986. He began his career in 1981 with the RCA Astro Space Division as an antenna engineer, designing flight antennas for commercial and DOD communications and remote sensing satellites. In 1990 he took a position in the Systems Engineering Group of the General Electric Astro Space designing space systems. In 1995 he took a position as Director of Systems Engineering in the Orbital Sciences Corporation, and in 1997 he took a position as the Deputy Program Manager for the Hubble Space Telescope Servicing Group at Lockheed Martin. In 1998 he began working on Pre-Phase A studies for the Next Generation Space Telescope, and in 2004 he became the NASA MSE for JWST.

Menzel has been the recipient of several awards including the NASA Distinguished Service Medal in 2022, and the Norman L. Baker Astronautics Engineer Award in 2023.

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2007 Michael D. Griffin 2008 Charles Elachi

2009 Lt. Gen. Michael A. Hamel

Peter B. Teets 2010 Edward C. Stone 2011

2012 David W. Thompson 2013 William Ballhaus Jr.

2014 Glynn S. Lunney 2015 Jean-Jacques Dordain 2016

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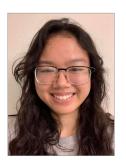
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