2014 National Engineers Week Honors & Awards Banquet

Presenting Sponsor

AEROJET ROCKETDYNE

Business Development Board BDB
Palm Beach County's Economic Development Resource

Agenda

Opening Remarks
Mike Trim
WPTV/Channel 5
Tonight's Emcee

Kelly Smallridge
President & CEO
Business Development Board

Russell Joyner
Fellow, Aerojet Rocketdyne
AIAA
Engineers' Council

Presenting Sponsor
James Maus
Executive Director
Aerojet Rocketdyne

Presentation of Awards

Dinner

Keynote Speaker
Dr. Sandra H. Magnus
Executive Director, American Institute of Aeronautics and Astronautics

Q & A

Presentation of Awards

Adjourn
Thank you for joining us tonight!

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Aerojet Rocketdyne joins the engineering societies and professional organizations throughout the world in celebrating the innovative and creative talents of our engineering workforce. We appreciate your efforts to help keep America secure and your contributions that enable technological progress for the benefit of all humanity. Aerojet Rocketdyne congratulates the 2014 Engineers Week nominees.

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Keynote Speaker

Dr. Sandra H. Magnus
Executive Director, American Institute of Aeronautics and Astronautics

Dr. Sandra H. "Sandy" Magnus is the Executive Director of the American Institute of Aeronautics and Astronautics (AIAA), the world's largest technical society dedicated to the global aerospace profession, with more than 35,000 individual members in 79 countries.

Born and raised in Belleville, Ill., Dr. Magnus attended the Missouri University of Science and Technology, graduating in 1986 with a degree in physics and in 1990 with a master's degree in electrical engineering. She also holds a Ph.D. from the School of Materials Science and Engineering at Georgia Tech (1996).

Selected to the NASA Astronaut Corps in April, 1996, Dr. Magnus flew in space on the STS-112 shuttle mission in 2002, and on the final shuttle flight, STS-135, in 2011. In addition, she flew to the International Space Station on STS-126 in November 2008, served as flight engineer and science officer on Expedition 18, and returned home on STS-119 after four and a half months on board. Following her assignment on Station, she served at NASA Headquarters in the Exploration Systems Mission Directorate. Her last duty at NASA, after STS-135, was as the deputy chief of the Astronaut Office.

While at NASA, Dr. Magnus worked extensively with the international community, including the European Space Agency (ESA) and the National Space Development Agency of Japan (NASDA), as well as with Brazil on facility-type payloads. She also spent time in Russia developing and integrating operational products and procedures for the International Space Station. Before joining NASA, Dr. Magnus worked for McDonnell Douglas Aircraft Company from 1986 to 1991, as a stealth engineer. While at McDonnell Douglas, she worked on internal research and development and on the Navy's A-12 Attack Aircraft program, studying the effectiveness of radar signature reduction techniques.

Dr. Magnus has received numerous awards, including the NASA Space Flight Medal, the NASA Distinguished Service Medal, the NASA Exceptional Service Medal, and the 40 at 40 Award (given to former collegiate women athletes to recognize the impact of Title IX).

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Merit Awards

Walter Adamski
Discipline Manager
Aerojet Rocketdyne

In recognition of outstanding service in advancing the state-of-the-art in Liquid Rocket Engine Test and Launch data processing and analysis capabilities.

Jeffrey Bradshaw
RL10 Site Manager ULA Decatur
Aerojet Rocketdyne

In recognition of 25 years of outstanding service to the space industry, and commitment to excellence and 100% mission success.

Matthew Bullivant
RL10 Lead Engineer
Aerojet Rocketdyne

In recognition of his outstanding contribution to the RL10 Program in 2013 in managing Engineering CCiCap proposal efforts and successfully overseeing and providing exceptional Engineering guidance on RL10 IRAD initiatives.

Pedro Fong
Staff Engineer Materials/Structure
Aerojet Rocketdyne

In recognition of his sustained superior support to the RL10 Engineering Team in dynamic health evaluation during hot fire testing of engines.

Dr. Aneesh Goly
Research Engineer
RADISE International

In recognition of his outstanding academic research in the field of climate change and variability, and for development and application of several novel methods in improving the reliability of precipitation projections over Florida.

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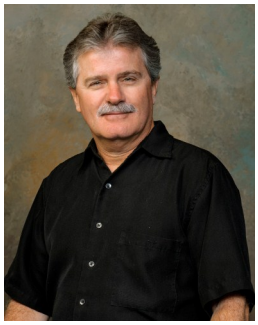
Merit Awards



James Larkin
Technical Discipline Lead
Aerojet Rocketdyne

In recognition of advancing the state-of-the-art in Diagnostics, Prognostics, & Health Management discipline recognition and capabilities.

Leonard Lowinski
Technical Discipline Lead
Aerojet Rocketdyne

In recognition of advancing the state-of-the-art in Controls & Diagnostic Systems technical capabilities.

Stephen Prescott
Engineer
Aerojet Rocketdyne

In recognition of his outstanding technical contributions to the improvement of the RS-68 Rocket Engine Controller.

Scott Wrieden
Chief Engineer
Lockheed Martin

In recognition of his service as the RMS Chief Engineer, leading a large technical team through multiple successful baseline developments to increase overall system reliability.

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CONGRATULATIONS

DAVID BALAWAJDER

Distinguished Engineering Achievement

KEN PAQUETTE

Distinguished Project Achievement

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Project Awards

Atlantis Support project
Responsible for the installation and support of NASA'S Space Shuttle Orbiter Atlantis at Kennedy Space Visitors Complex. The BRPH structural team had to plan how to transport the orbiter to the Visitor Complex, how to get it off the transporter, how to lift it 30 feet in the air , how to rotate it, how to open the payload bay doors and what to provide to open the doors. Team members: **Andrew Miller, James Nordin and Kenneth Paquette**.

Dixie Highway Flyover Design & Build
Wantman Group, Inc. (WGI) was the Lead Designer on the Design-Build team responsible for skillfully realigning Dixie Highway from south of Hillsboro Boulevard in Broward County to north of the Hillsboro Canal in Palm Beach County. This Design-Build project was completed 95 days ahead of schedule and $7.5M under budget. The Cone & Graham and Wantman Group, Inc. Team members**: Randy Cropp** of Cone & Graham, Inc., **Tom Farnam** of Kimley -Horn & Associates, Inc., **Rudy Hoyos** of Progressive Design & Engineering,Inc., and **F. Thomas** of Tierra South Florida and team leader **Jeremy Botto**.

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Project Awards

GPSII F-3 Anolmaly Investigation
This team is being recognized for conducting an in depth, transparent, and extensive investigation accomplishing amazing results contributing to a greater understanding of the RL10 engine and vehicle systems and clearing the Atlas and Delta vehicles for flight. Team members: **Charles Schmitzer, Corey D. Brown, Frank R. Hughes, John A. Harris III, John R. Barnes and Carlos M. Rodriguez**.

RL10C-1Qualification Program
The team is commended for outstanding teamwork and flawless execution of the RL10C-1 qualification program. Team members include**: Reed Kakuska, Craig W. Irwin, Donald E. Galler, Ricky A. Schied, Thomas W. Paulus and Pedro W. Fong**.

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Project Awards

S-76D High Altitude test program

Sikorsky Aircraft flight S-76D flight test team successfully completed high altitude testing in Colorado in September, 2013. The team's effort led to FAA Certification of a new product model. Team members: **Robert Blake , Rod Sanchez, Don Chao, Tad Mondell, Dan Bazzani and Nick Macko.**

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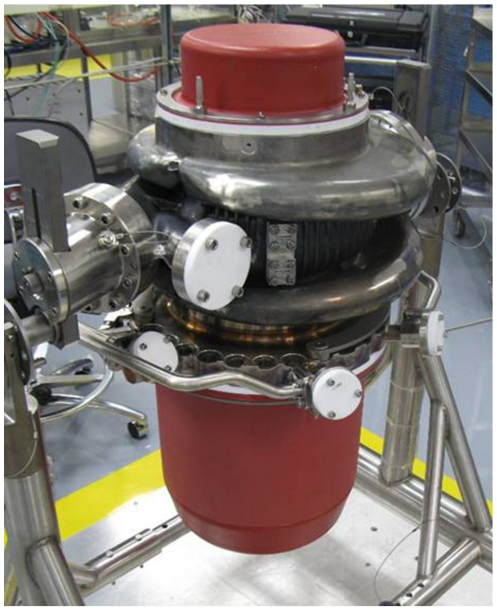
Project Awards

Westgate CRA Babbling Brook
Lucy M. F. Keshavarz, Artist of Art & Culture Group, Inc., Randy Wertepny, of Keshavarz & Associates, Inc.,
Nick Mihelich of Urban Design Kilday Studios, and
Elizee Michel, Executive Director, Westgate CRA

RS-25 High Pressure Turbopump (HPTP) Flight Limit Extension From the team at Aerojet Rocketdyne for outstanding achievement in successfully extending heritage Space Shuttle Main Engine turbo-pump flight limits to support the adaptation of the RS-25 to provide the NASA Space Launch System core stage propulsion. Team Members: **John Flanagan, Marguerite Morgan-Cargo, Neil Glorie, Richard Hammond, Richard Sewell and David Zapatka and Frederick Whitman.**



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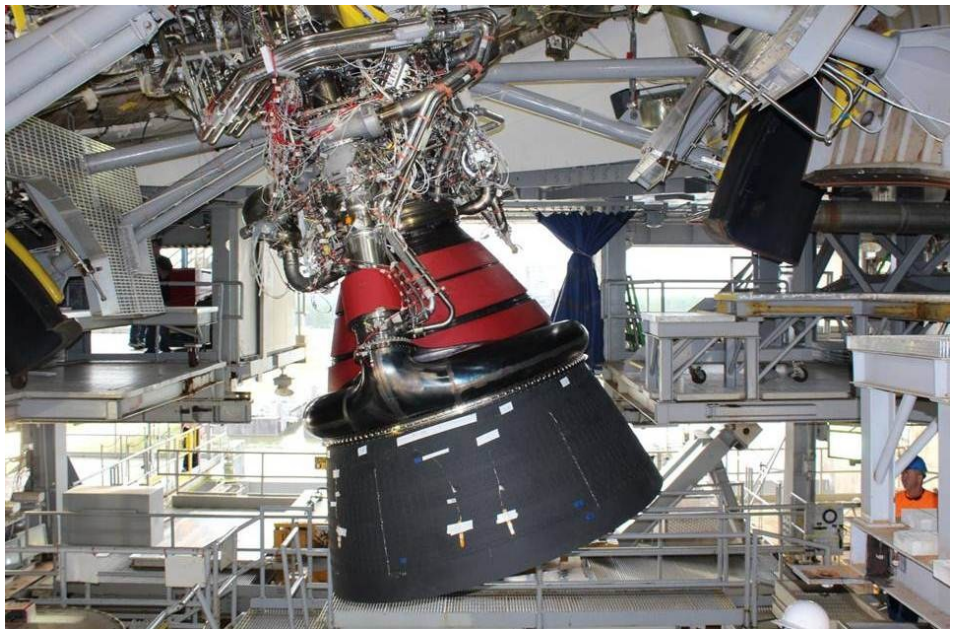
Project Awards

J-2X with Nozzle Extension

In recognition of technical excellence and outstanding teamwork to ensure successful development and risk reduction of the J-2X nozzle extension. Team Members: **Bruce Unser, Brett Scotten, Daimon Clarett, Dennis Lim, Jim Beck and Scott Fowser**.



BOEING

Propulsion Offsite

The Boeing Company for the work of the Propulsion Offsite Test Team and their selfless commitment to complex, hazardous Propulsion Test activities in support of an offsite Proprietary Program. Team members: **William Prophet , Vincent De La Torre, Richard Lopez, John P. Engstrand, Dale E. Lamason, William M. Pulliam, Jeremy L. Strom, Kevin A. Nemeth, Mike S. Heller, Jason D. Castaneda and Jack D. Drale**.

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Project Awards

X-51A Scramjet Engine Demonstrator WaveRider

The X-51A propulsion flight test team successfully completed the fourth and final flight of the X-51A program while meeting all program objectives. In May 2013, the X-51A WaveRider hypersonic vehicle achieved aviation history by making the longest-ever supersonic combustion ramjet-powered flight, flying full duration and achieving mission success. Team members: **Thomas Fortin, Kenneth Olson, Robert McLaughlin, Jeffrey Marchal, Stephen Hoxie, Josephine Jackson, Kevin Kincaid, Leslie Guzman, Randall Upton.**

Autonomy Research Aircraft

Sikorsky Autonomous Research Aircraft (S.A.R.A.) flying lab enabling rapid flight testing of software and hardware for unmanned aircraft performing complex missions with minimal oversight. Team members: **Len Wengler Jr., Ken Kopp , Cauvin Polycarpe, Josh Leland, Mike Connor, Chris Stathis, Patrick Dempsey, Sean Carlson, Vince Goodson, Lee Salway, Matt Zywiak, Neyka Ramos, Elliot Kruk, Mike Baran, Anthony Smith, Eric Miller, Karl Gradzki, Mark Antonetz, George Lousides, Mark Tucker, Chris Bielewicz, Mark Wilson, Rob Pupalaikis, Steve Cizewski, Sade Morris.**

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Distinguished Awards

Dusty Fisher

Principal
Race Street Group, LLC

Dusty is a STEM education and career evangelist, traveling across the United States promoting the value of an education rich in science, technology, engineering and mathematics. She believes that engineers' creative problem-solving ability plays a major role in generating economic activity and improving the quality of life we all lead. Few people in the country do more to encourage "future engineers and scientists," as well as the importance of technological literacy to career success than Dusty Fisher.

Dr. Erich Landstrom

Science Teacher
School District of PBC

Erich is a Science Teacher for the School District of PBC. Erich Landstrom is recognized as an effective, energized leader in the Palm Beach County School District promoting engineering as a profession in his capacity as educator and SECME Coordinator. SECME is a Local and National STEM afterschool program with between 80 and 100 schools in PBC participating annually. Erich is one of those rare, marvelous, energized individuals that live, eat and breathe STEM. He has a continual lively interest in all technology, science, engineering, math and physics that simply becomes contagious in his presence.

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Distinguished Awards

David Balawajder

Senior Structural Engineer
BRPH Architects + Engineers, Inc.

David received his Bachelor of Science Degree in Civil Engineering and his Master of Science degree in Civil/Structural Engineering from Rutgers University. Two prominent and high-profile projects that David has worked on are the Cruise Ship Terminal 6 (CT-6) project for the Canaveral Port Authority, and the Harris Technology Center (HTC) for Harris Corporation, both of which were structurally challenging projects. David is a licensed Structural Engineer, licensed Civil Engineer, Certified Threshold Inspector, a member of the American Concrete Institute and an Associate Member of ACI Committee 360 and is being recognized for his outstanding contributions to and achievements in the Structural Engineering industry.

Jerome F. Josef

Senior Advisor with Space Launch Systems
Aerojet Rocketdyne

Jerry attended the University of Michigan, where he received his Bachelors of Science in April 1979, he has a Dual Degree in Materials and Metallurgical Engineering and Graduate Course Material – Mechanical Study of Solids. Jerry continuously demonstrates his dedication to the business as well as the industry. Over the course of his 25 year career he has been providing leadership to some of the most complex and groundbreaking programs. These programs stretch across the fields of Human Spaceflight and the launch of Expendable Vehicles and include working across international boundaries that years ago were considered to be unthinkable.

James Lettko

project Engineer
Venergy Group, LLC.

James received his Bachelor of Science from Clarkson University, his Masters of Science, Strategic Studies from the United States Army War College. As the senior full time officer of various New York Army National Guard engineer units, led the training, preparation and response to most declared domestic disasters from December 1995 thru Hurricane Irene in September 2011. Focused on ensuring key leaders were trained in Incident Management and integration at the city and county levels. With his short time in the civilian world after 33 years of military service, Brigadier General Lettko is passionate about continuing his engineering mentality to make our company more productive and safer. His passion is Healthier, Wealthier and Wiser based on modern engineering principles. An inspirational leader with a Top Secret Security Clearance. Senior executive with extensive experience leading positive and effective change in organizations by leveraging collaboration, technology, proven methods, initiative and imagination. Results-focused with proven ability to develop diverse teams, build successful alliances, deliver outstanding operational performance in mission critical areas.

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Distinguished Awards

Dr. Mohommad Ilyas

Dean of the College of Engineering and Computer Science
Florida Atlantic University

Dr. Ilyas received his Ph.D. in Electrical Engineering form Queens University, his M.S. in Electrical Engineering from Shiraz University, his B.S. in Electrical Engineering from the University of Engineering and Technology, his M.D.P. from Harvard University, his M.L.E from Harvard University and he is currently working on another Ph.D. in Educational Leadership from FAU. Dr. Ilyas' achievements in engineering research and education are clearly reflected by over 190 technical publications, more than $4.5m of research grants, 11 Ph.D. dissertations/38 MS theses and many research and teaching awards. He is instrumental in promoting and maintaining a colligative atmosphere and student centered learning environment in the College of Engineering and Computer Science at Florida Atlantic University. Under his leadership, the College is experiencing unprecedented growth in terms of research and student body. This nomination will send a strong signal to our faculty, staff, students, alumni and industry partners that the College is moving in the right direction. Dr. Ilyas has dedicated his career to his university. It is rare that technical prowess merges with administrative skills and highest level integrity in one person like Dr. Ilyas.

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Distinguished Awards

Dr. Daniel Meeroff

Associate Professor
Florida Atlantic University

Daniel is this years John J. Guarrera Engineering Educator of the Year. Dr. Meeroff received his Bachelor of Science in Environmental Science from FIT, his Master of Science and his Ph. D. in Civil Engineering, Environmental Engineering Emphasis from the University of Miami. Although he is already among the top teachers at FAU, his commitment to continuous improvement is evidenced by his participation in faculty learning communities, writing across the curriculum, Distinction Through Discovery undergraduate research, academic service-learning, community engagement, eLearning, teaching with technology, and development of STEM curriculum for the Broward County School Board. Dr. Meeroff also promotes licensure in all of his courses, allowing the use of the FE Reference Handbook on all of his course exams, and allowing the use of FE-approved calculators, to help students prepare for the Fundamentals of Engineering exam. Dr. Meeroff involves industry in his capstone design course in which student design teams tackle real life projects in coordination with design professionals. Dr. Meeroff is genuinely caring and always willing to go the extra mile for his students' success. His teaching contributions to the profession have been at all levels.

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Message from the Space Station

Expedition 38 crew members take a break from training at NASA's Johnson Space Center to pose for a crew portrait. Pictured on the front row are Japan Aerospace Exploration Agency (JAXA) astronaut Koichi Wakata (left), flight engineer; and Russian cosmonaut Oleg Kotov, commander. Pictured from the left (back row) are Russian cosmonaut Mikhail Tyurin, NASA astronaut Rick Mastracchio, Russian cosmonaut Sergey Ryazanskiy and NASA astronaut Michael Hopkins, all flight engineers. Photo credit: NASA

NATIONAL ENGINEERS WEEK MESSAGE FROM THE INTERNATIONAL SPACE STATION

Expedition 38 Astronauts and Flight Engineers
Rick Mastracchio and Michael Hopkins

Hello, from the International Space Station. I'm Astronaut Rick Mastracchio, along with my crewmate Astronaut Mike Hopkins. We'd like to congratulate all of you on this 63rd observance of National Engineers Week. During this special week, activities by volunteers from engineering societies and professional organizations all across our nation are stimulating interest in math and science among our youth who will one day be contributing to the pool of engineering and scientific talent that our nation needs to meet the future. These activities include science fairs, mentoring, educational outreach, and student design competitions. Additionally, many engineering professionals are being recognized this week at celebrations highlighting their many contributions to making our world a better place. And finally, we'd like to recognize and say thanks to the thousands of engineers that help design, build, and maintain this wonderful Space Station. Once again, thanks for all you do and enjoy your week.