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Speaker Sponsor



Business Back County's Economic Development Resource

Opening Remarks Tim Byrd

Voxpower Voiceovers, LLC Tonight's Emcee

Lake Worth Airforce JROTC

Presentation of the Colors & National Anthem

Kelly Smallridge

President & CEO
Business Development Board

Presenting Sponsor James Maus

Executive Director Aerojet Rocketdyne

Presentation of Awards

Dinner

Keynote Speaker Dr. Alan Epstein

Vice President - Technology and Environment Pratt & Whitney

AIAA Service Awards Randy C. Parsley

Chairman
AIAA Palm Beach Section

Presentation of Awards BDB AAE Task Force Co-Chairs John Fischetti

General Manager
Sikorsky Development Flight Center
Cris Vigil

Sr. Vice President BRPH

Adjourn

Thank you for joining us tonight!



Presenting Sponsor



Aerojet Rocketdyne

Congratulates all 2018

National Engineers Week Honorees.





We are enabling a new reach into deep space and defending our Nation's freedom.





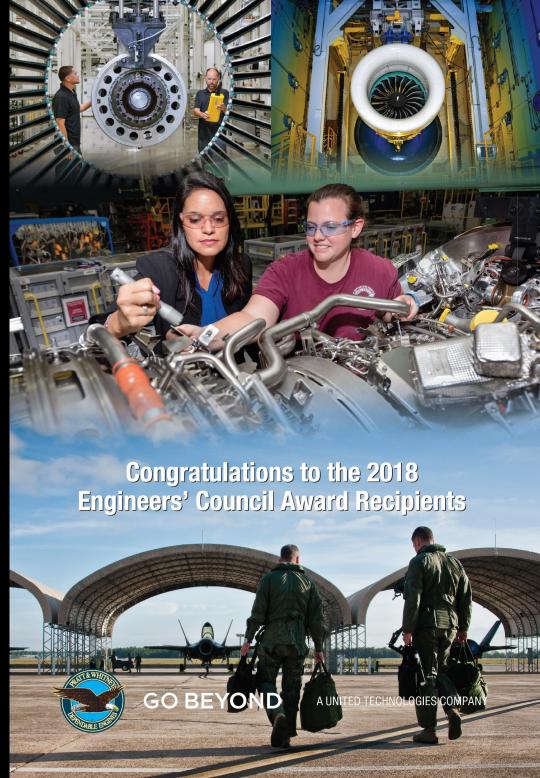
Dr. Alan Epstein Vice President Technology and Environment Pratt & Whitney

Dr. Epstein is responsible for setting the direction for and coordinating technology across Pratt & Whitney. He provides strategic leadership in the investment, development, and worldwide products and services.

Prior to joining Pratt & Whitney, Dr. Epstein was the R.C. Maclaurin Professor of Aeronautics and Astronautics and Director of the Gas Turbine Laboratory at the Massachusetts Institute of Technology, and currently holds an appointment there as Professor Emeritus. His research at MIT included gas turbines, energy, rocket propulsion, and micro-mechanical and electrical systems (MEMS).

Dr. Epstein is currently the chair the NASA Aeronautics and Space Engineering Board, and a member of the NASA Advisory Council. His work has been honored with many international awards, including the American Society of Mechanical Engineering Gas Turbine Award, the American Institute of Aeronautics and Astronautics Dryden Lectureship in Research, the International Gas Turbine Institute Gas Turbine Technology Award, and the Canadian Aeronautics and Space Institute Turnbull Lectureship. Dr. Epstein is a member and past Chair of the Aerospace Section of the U.S. National Academy of Engineering, a Fellow of the American Institute of Aeronautics and Astronautics, of the American Society of Mechanical Engineers, and of the Royal Aeronautical Society. He received his B.S., M.S., and Ph.D. degrees in aeronautics and astronautics from the Massachusetts Institute of Technology.









Stephen Herndon Data and Controls Specialist Engineer Aerojet Rocketdyne

In recognition of outstanding data acquisition and controls engineering for the execution of liquid rocket engine propulsion systems testing.



Russ Hughes Principal Analysis Aerojet Rocketdyne

As the Safety and Mission Assurance Lead for the RL10 Exploration Upper Stage program, Russ helped the AR Team successfully completed a Preliminary Design Review with NASA, moving the RL10 rocket engine closer to a man-rated status.



James Nord
Systems Development, Verification & Test
Lead Engineer
Aerojet Rocketdyne

Jim Nord is recognized for his technical expertise in engine operation, integration, leadership and contributions to the successful launch and mission success record of the RL10 upper stage rocket engine.





Jonathan Leagon Mechanical Design Engineer Agilis Engineering

In recognition of his dedication to technical excellence, creativity, leadership and guidance.



At Florida Power & Light Company we are working together with the communities we serve to make Florida an even better place to raise a family and do business.

#FPLCares



World-class facility design and management services to support your mission.











Jutstanding Engineering Achievement



Andrew Myers NSMS Engineer and Developer Agilis Measurement Systems

For expertise in measurement systems, structural analysis, and computer integrated systemsof signal analysis software and c360 Data Lens software.



Brian O'Mahoney Heat Transfer Secondary Flow Engineer Agilis Engineering

In recognition of technical commitment, performance and execution.



Mark Borja Technical Lead Belcan Engineering Group, LLC

In recognition of his contributions to the blade tip active clearance control technology.





Adrian Pino
Senior Engineer, PWC Controls Systems &
Software Lead
Belcan Engineering Group, LLC

In recognition for exemplary leadership, technical excellence, and commitment to his team's success.

Sorporate Table Sponsor





Northrop Grumman celebrates National Engineers Week. Our engineers push the envelope of the possible. Their game-changing innovations protect our nation's freedom and advance human discovery. We salute them.

Be part of what we do.

THE VALUE OF PERFORMANCE.

NORTHROP GRUMMAN





Dutstanding Engineering Achievement



Edmund Stastny Senior Mechanical Designer Belcan/CDI Corp.

For technical excellence and support of the Oxygen Fuel Control Valve SLM Housing.



Mark Welsh Senior Technical Leader Belcan Engineering Group, LLC

For outstanding leadership of the Analytics / DPHM team and for creating robust analytics tools.



Mohamad Fazeli Sr. Structural Engineer BRPH

In recognition for outstanding professional structural engineering for complex buildings.



Joshua Martin Staff Systems Engineer Lockheed Martin RMS

For contributions of enhancing safety in the design and operation of undersea vehicles.





Revolutionary Insight

Agilis provides revolutionary insight into the engines that move and power our world.

We've helped streamline designs, test performance and ensure reliability for the most sophisticated engine technology in operation today.

25 years

Efficient

Reliable

Belcan

Engineering Better Outcomes.









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ing Achievemen utstanding



Scott Rushfeldt Senior Embedded software Engineer Lockheed Martin RMS

For contributions to the design and operation of autonomous underwater vehicles.



Stephen Cook
Northrop Grumman Fellow,
Airworthiness
Northrup Grumman Aerospace Systems

For achieving the 1st consensus industry standard to address unmanned aircraft with complex functions - ASTM F3269-17.



Susie Conley Manager, Software Design Pratt & Whitney

For excellent leadership and technical contributions towards the development of control systems and software for aircraft Auxiliary Power Units.





Tommy Dixon
APU Programs Leader, Control &
Diagnostic Systems
Pratt & Whitney

For outstanding technical and program leadership of military's Auxiliary Power Unit control systems development and production.



Palm Beach State College launches students into STEM professions and advanced education through real-world programs, stellar faculty and career-shaping internships with industry leaders.

Level Up





"The AIAA Palm Beach Section congratulates the
2018 Engineers Week Honors and Awards Banquet Winners
for your outstanding achievements and dedication
to the engineering profession".

Special congratulations to the AIAA Service Award Recipients:

Dr. Donald W. Richardson

Dr. Richard A. Scheuing

Mr. Joseph A. Sabatella

Mr. Bernard L. Koff





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santiana BBB pain Baach County's Economic Development Resource



Robert Liebschutz Manager, Engine Systems Software Pratt & Whitney

For outstanding contributions towards the development of jet engine control algorithms.



Blake Dunne Aircraft Test Director Sikorsky Aircraft, a LM Company

For contributions in accomplishing difficult engineering projects in difficult situations.



Christopher Ludwig Flight Test Engineer Sikorsky Aircraft, a LM Company

For problem recognition and solution selection of high bandwidth, telemetry based, vibration processing, and display tooling.



Gareth Roberts Aircraft Test Director Sikorsky Aircraft, a LM Company

For outstanding contributions on various engineering programs.

Congratulations to all of the

Merit Award Winners!

Aerojet Rocketdyne RL10 Sustainment and Modernization Team

The RL10C-1-1 is the first large rocket engine to incorporate additive manufacturing on complex assemblies. The incorporation of modern manufacturing techniques, like additive manufacturing, on the RL10 engine have provided significant cost and lead time reductions while maintaining excellent performance. What we have learned on developing additive manufactured components for the RL10 engine is also being leveraged for other large rocket engine programs like AR1 and RS25.

TEAM MEMBERS: Craig Irwin (Team Lead), Mike Popp, Scott Bonner, Steve Fentress, Steve Wondelich, Pedro Fong, Ricky Schied, Kyle Kreiter, Jake Bernhardt, Chelsea Bohannon, Jon Henderson, Mitch Brown, Don Galler, Jim Clark







Belcan, LLC

Engineering Design of Indoor Radar Range

The Belcan Validation & Tooling team has been an integral part of Pratt & Whitney's success during indoor radar range testing over the last 3 years of development. The Belcan team provided invaluable contributions to the design, installation, and operations-check of radar range tooling and automated equipment. Contributions of this team to the ABARIS facility involved much of the equipment outside the radar system itself. The capability of the designed, analyzed, fabricated, and installed components were validated by Pratt & Whitney during F135 program engine testing. The system as a whole with all the subsystems working together is a spectacular engineering achievement for a relatively small team. The team responded quickly with imaginative solutions to accommodate changes in architecture necessitated by changing requirements. This rapid response was instrumental in preserving the aggressive development and certification verification schedules. The team deserves high praise between the design, structures, and drafting work involved and all the additional support required

Engineering Project Award

Belcan

Engineering Better Outcomes

Belcan Engineering Team ABARIS Indoor Radar Range





















Northrop Grumman

Fuel System Engineering Development System Test

The Northrop Grumman team was responsible for the design, development, procurement, fabrication support and test execution as part of an aircraft fuel system risk reduction effort. This effort required close coordination between team members and manufacturing, facilities, environmental safety, procurement as well as program and engineering management. Utilizing the fuel test rig has allowed the team to reduce any system development risks prior to on-aircraft testing; to verify system performance requirements without impacting the flight test aircraft schedule; to collect test data to verify system simulation model predictions required to meet a contractual requirements; and to allow engineering evaluation of normal system operation as well as failure modes.

Northrop Grumman is a leading global security company providing innovative systems, products and solutions in autonomous systems, cyber, C4ISR, strike, and logistics and modernization to customers worldwide. Please visit news.northropgrumman.com and follow us on Twitter, @NGCNews, for more information.





Pratt & Whitney The Adaptive Engine Transition Program (AETP) Exhaust Nozzle Design Team

The Adaptive Engine Transition Program (AETP) Exhaust Nozzle Design Team has created an innovative nozzle design in support of Pratt & Whitney's contract to design, develop, fabricate, and test complete, flight-weight, centerline, 45,000-pound thrustclass adaptive engines. An agile design process enabled team engineers to design and structurally evaluate multiple concepts quickly to achieve an optimized design. The team is dedicated to creating a light weight, high performance nozzle structure to ensure all performance parameters are achieved. Adaptive engines represent a revolutionary advance in turbine engine technology. The adaptive engine optimizes performance and fuel efficiency across the flight envelope by utilizing a third stream of air to optimize the engine at different flight conditions. The engines will demonstrate 25 percent improved fuel efficiency, 10 percent increased thrust, and significantly improved thermal management. Pratt & Whitney is building on its position as the world's only fifth generation engine manufacturer to prepare for multiple potential low-risk follow-on Engineering, Manufacturing, and Development (EMD) program(s) for existing and next generation combat aircraft.



BRPH

Universal Studios King Kong Skull Island:

BRPH provided architectural, engineering, and construction administration services for Universal Studio's new attraction for its Islands of Adventure Theme Park and will reside on a site adjacent to the current Jurassic Park attraction. The new specifically designed ride vehicle will transport between 2,000 and 2,200 guests per hour on a guidance system through lush landscaping, a myriad of elaborate sets, onto and across motion base platforms, past full-scale special effects, animated figures and multiple, larger-than-life media screens. This project includes new area development, facades, and attraction showing building. The attraction opened in 2016.





Randy Thron Sr. Project Manager



Tom Wood Project Manager



Din Redito Architectural Designer



Kalyn LeBlanc Architectural Designer



Ben Trawick Sr. Mechanical Engineer



Lynn Sweeney Mechanical Designer



Jason AbbottDir. of Civil Engineering



Gayane Acopian
Civil Engineer



Eric Bradford
Director of Structural



David Ogle Electrical Engineer



Matt Buecker Electrical Designer



BRPH

Support Service Centers for FPL

BRPH provided architecture, engineering, interior design, construction administration and commissioning services for the new Service Center Field Offices located in seven cities in Florida. Each field office is designed as a twostory hardened concrete essential facility to withstand 226 MPH winds. The flexible design transitions from office facility to a Storm Management Command Post during hurricane and emergency events. Each field office is designed as a mission critical facility designed to be fully operational during hurricane events and include hardening features:

- -Capable of withstanding CAT-5 Storms (170 mph sustained winds and 226 MPH 3-second gusts)
- -Impact protected covers/coatings over glazing, penetrations, and other building systems to maintain the building envelope
- -Redundant systems for electrical and data/communication

The field offices will be used by FPL engineers and technicians for designing and maintaining ongoing electrical services, and will contain offices, flexible meeting space, break room, restrooms with showers, large storage, assembly and crew areas, and open work areas. During emergency events, the spaces are designed to transition to support storm management teams. The transitional spaces include a flexible assembly room capable of being subdivided into two spaces for meeting rooms and converts to bunk areas to house up to 100+ Storm Riders during a hurricane. The field offices also include staging areas for approximately 50 service line trucks at each site.



BRPH FPL Service Centers Project Team



Anne Maguire



Mike Blanchard



Keith Couch Sr. Mechanical Engineer



Mohammad El Habbal Electrical Engineer



Art Smith



Deb Charles



Jaculin Watkins Project Administrator



Kristin Magill Written Document Standards Lead



Sikorsky a LM Company Canadian Maritime Helicopter Program—Sea Trials

The Canadian Maritime Helicopter Program (CMHP) Sea Trials Team conducted test operations of the CH148 helicopter on a Halifax-class frigate. The Canadian Maritime Helicopter requirements describes operations in Sea State 6 conditions (20 foot waves, 55 knot winds) as a key capability. Conducting helicopter operations from the Halifax class ship is of utmost importance to Canada. The SAC Sea Trials team conducted 5 separate test events on board the ship. Only one test event could be conducted each year during January to March when weather conditions in the North Atlantic were at their worst. We completed the final test event in Q1 2017 that evaluated the final design changes on the CH148 aircraft to demonstrate contract compliance. In total, the team spent 193 days on ship, flew the aircraft over 269 flight test hours and conducted over 975 landings on the flight deck.







Aerojet Rocketdyne Chemical Solutions Control Team

In recognition of the outstanding, cross-site, interdisciplinary effort to understand and control variability in essential chemical solution processes by standardizing analysis processes, controlling process inputs, and establishing known process capability.

Team Members:

Anthony Akpati, Daksha Chokshi, Vonnie Douglas, John Elieson, Sarah Gafvert, Jesse Harris, Tim Helderman, Dave Hietapelto, Mindy Hotchkiss, Eunice Lee, Christy Leite, Aryeh Meisels, Mal Privett, Justin Zwolski







Distinguished Future Teach T



John Barker Specialist Engineer Aerojet Rocketdyne

In recognition for dedicated commitment to excellence as the ABEDRR Integrating Components and Chamber IPT.



Justin Sabourin
Specialist Engineer
Aerojet Rocketdyne

For achieving success in Energetics & Propellant Development .



Mary Mead Aero & Performance Engineer Agilis Engineering

In recognition of her contributions to the aerodynamic design of multi-stage axial turbines.





Michelle Garcell Structural Analyst Agilis Engineering

In recognition of leadership, technical commitment, performance and execution.

Solouhoe Distinguished Future



Jacob Bates Senior Engineer, Control Systems Software Verification Belcan, LLC

For contributions in the area of software verification and engineering leadership.



Braxton Woodward Project Manager Belcan, LLC

For resourcefulness, passion, and excellence toward an understanding of a systems approach toward engineering.



James Woodard **BRPH Mechanical Engineer**

For leadership in the development of gas process piping systems and engineering.



Lauren Toth Systems Engineer

Northrup Grumman For outstanding technical leadership and contributions in engineering development.



levement

Alan Davis RL10 Chief Engineer Aerojet Rocketdyne

For technical leadership of the RL10 Engine product line ensuring on time product delivery, driving product affordability, and 100% mission success for many critical NASA and DoD payloads. He drives mission success through flight readiness processes, anomaly resolution and commitment to the engine system.



Jay Doernbach Heat Transfer Secondary Flow Engineer Agilis Engineering

For his technical expertise in heat transfer and secondary flow contributing to the technology advancement of the turbine engine. He has authored and co-authored various industry white papers and reports including "A Scoping Study for Hypersonic Transport Propulsion Systems.



Doug Davis Director, Office of Independent Airworthiness Northrup Grumman

For contributions to the remotely piloted Unmanned Aircraft System integration into regulations, policies and standards both domestically and internationally. As Director of Independent Airworthiness he is paving the future in a brand new market.





Gonzalo Martinez Product Lead Engineer - Mechanical Design, Hot Section Engineering Pratt & Whitney

For recognition of career achievements in the area of Jet Engine Exhaust Systems for Fighter Aircraft. He is the recipient of at least five US patents. He was one of the lead designers of the autonomous Joint Unmanned Combat Air System propulsion exhaust system.





Kevin Simmons The Weiss School Educator Award for The Weiss CubeSat Development Team and BLUECUBE Aerospace

This Distinguished Educator Award is presented by the Engineering Council in recognition of outstanding professionalism in engineering education, mentorship, leadership and for significant contributions to student's academic enrichment. He is supremely committed to aerospace education. He

constantly engages in simultaneous projects at multiple stages in the STEM pipeline. His projects are always challenging, and he stresses the fundamentals to his students. He is an outstanding leader at many levels, and he has significantly contributed to the field of aerospace education.



Dr. Waseem Asghar
Florida Atlantic University
Assistant Professor, Department of Computer and Electrical Engineering & Computer Science

Waseem Asghar, Ph.D., Assistant Professor of Electrical Engineering in the College of Engineering and Computer Science at Florida Atlantic University (2014- present) has identified new paper and flexible material-based diagnostic biosensing platform that could be used to remotely detect and determine treatment options for HIV, E-coli, Staphylococcus

aureas and other bacteria. Using a drop of blood from a fingerprick, this novel biosensing platform provides clinically relevant specificity, sensitivity and detection of pathogens from whole blood and plasma. Using paper and flexible substrates as materials for biosensors, Dr. Asghar and his collaborators identified a new rapid and cost-effective way to diagnose diseases and monitor treatment in point-of-care settings.



Bassem Alhalabi, Ph.D.
Florida Atlantic University
Associate Professor
Department of Computer & Electrical Engineering and Computer Science
College of Engineering and Computer Science

"For revolutionizing the embedded systems and logic design labs at FAU" Dr. Alhalabi is well versed engineering professor with industrial hands-on experience. His classes and students

projects are great preparation for the world of engineering innovations and creativity.



Dr. Sundararaj Iyengar Florida International University Distinguished Ryder Professor and Director, School of Computing and Information Sciences

Dr. S.S. Iyengar is currently the Ryder Professor of Computer Science and Director of the School of Computing and Information Sciences at FIU, Miami. He is also the founding director of the Discovery Lab. His research interests include High-Performance Algorithms, Biomedical Computing, Sensor Fusion, and Intelligent Systems for the last four decades. He has

served on the US National Science Foundation and National Institute of Health Panels to review proposals in various aspects of Computational Science and has been involved as an external evaluator (ABET-accreditation) for several Computer Science and Engineering Departments across the country and the world.



Elizabeth Horvath Palm Beach State College Department of Computer Science and Information Technology Professor III

Dr. Horvath is the heart and soul of the Computer Science Department at Palm Beach State College. What makes her a great educator is not just her phenomenal knowledge, but also her enthusiasm in sharing that knowledge with students and colleagues alike. She strives to teach her students everything she can so that they can embark on successful careers whether

as programmers or as network administrators. Dr. Horvath has often said that one of the best rewards of teaching is when a former student emails her or drops by for a visit and tells her that they have found a great job.





The Weiss High School Chapter Spring BANQUET

Featuring NASA's First Shuttle Pilot

Astronaut Robert Crippen (Captain, USN retired)

Pilot STS-1, Commander of STS-7, STS-41C, and STS-41G

Director of Kennedy Space Center 1992-1995

Date: Thursday, April 19, 2018

Time (PM): 5:00-6:00 Social Hour and Cash Bar

6:00-6:45 Dinner

6:45-8:00 Speaker and AIAA Member Anniversary Recognition

Location: Wells Fargo Community Center

255 South County Road, Palm Beach, FL 33480

Cost: Students \$25, AIAA Members \$30, Non-members \$40

Registration and payment is required in advance. To reserve a seat email your request to AlAAbanquet@bluecubesat.com. Register by April 1st, 2018.

Sponsored by the AIAA Palm Beach Section, The Aerospace Public Policy Institute, and BLUECUBE Aerospace, Inc.









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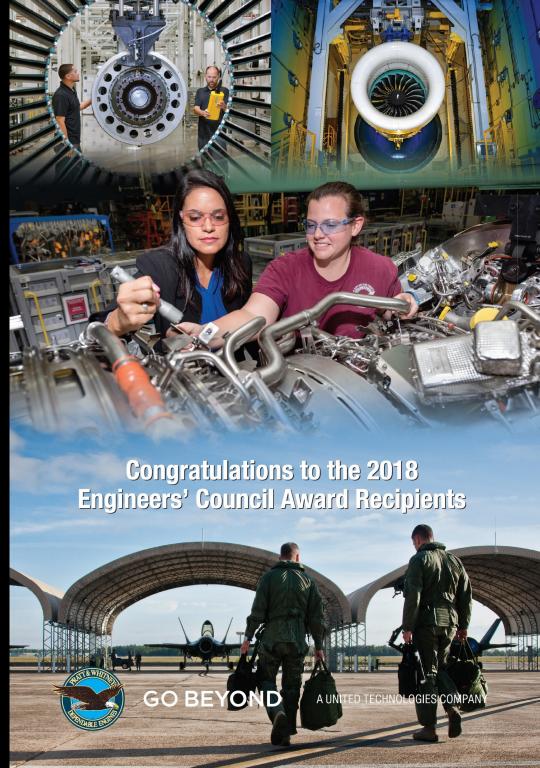
We are enabling a new reach into deep space and defending our Nation's freedom.



Sequising BDB Palm Beach County's Economic Development Resource

2018 Engineering Task Force

Cris Vigil, BRPH Architects - Engineers, Inc. John Fischetti, Sikorsky Jeff Lucas, Element Barry O'Connell, Logus Microwave Jerry Allen, PBIA Chuck Biondo, Power Systems Manufacturing Jim Maus, Aerojet Rocketdyne Chuck Brunelas, SV Microwave Sean Quinn, Wafer World, Inc. Oleg Andric, Palm Beach State College Mohammed Ilyas, PhD, FAU Javad Hashemi, FAU Catherine Haas Barre, Parametric Solutions, Inc. Russ Joyner, Aerojet Rocketdyne Joaquin Castro, Aerojet Rocketdyne Michael Corbit, CareerSource Palm Beach County Nayo Martinez, Parametric Solutions, Inc. Jonah Santom, Atlantic Aviation Services Deanna Usiadek, Pratt Whitney Kerry Byrne, Belcan Brian LaMotte, WGI Stephen Rodrigues, Lockheed Martin Dwight Drumtra, Belcan Kevin Simmons, The Weiss School Cindy Nelson, FTT Terry Horan, ECS Limited Ursala Iafrate, FAE Consulting













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