

# NATIONAL ENGINEERS WEEK

The National Society of Professional Engineers founded National Engineers Week in 1951. It's always celebrated at the time of George Washington's birthday. Our nation's first president was a military engineer and a land surveyor. The mission then, and now, is to increase public awareness and appreciation of the engineering profession.

## Peninsula Engineers Council Annual Banquet

### With Presentation of the 2016 Engineer of the Year and Doug Ensor Awards

#### Engineer of the Year



**Dr. Ronald Krueger** of National Institute of Aerospace (NIA) is the recipient of the Peninsula Engineer of the Year Award. He was nominated by the Hampton Roads section of the American Institute of Aeronautics and Astronautics (AIAA). As an Associate Research Fellow at the NIA, Dr. Krueger is being recognized for his significant contributions in the analysis of delamination growth in composites using finite element modeling.

Dr. Krueger is leading research in the analysis of durability and damage tolerance of composites; failure of structures and components made of composites; and computational fracture mechanics. He has made numerous and significant technical contributions focusing on the problem of sandwich face sheet/core disbonding, which can lead to component failure. Most recently Dr. Krueger developed benchmark cases for assessing delamination propagation capabilities of finite element codes. Currently, Dr. Krueger supports NASA's Advanced Composites Project (ACP) by organizing and leading the Composites Computational Tools (CCT) working group. The group's primary role is to identify and address numerical implementation issues of analysis codes used to perform progressive damage analysis (PDA) and transient dynamic analysis (TDA).

Dr. Krueger holds both a Diploma and Doctorate degree in Aerospace Engineering from the University of Stuttgart in Germany. He came to the US in 1997 through the National Research Council (NRC) Research Associateship Program.

#### Doug Ensor Award



**Dr. Steve Miller** of the National Aeronautics and Space Administration (NASA) Langley Research Center (LaRC) is the 2016 recipient of the Doug Ensor Award for Young Engineer of the Year. Dr. Miller was nominated by the Hampton Roads section of the American Institute of Aeronautics and Astronautics (AIAA). Dr. Miller joined the NASA Aeroacoustics Branch in September 2009 upon

successfully defending his Ph.D. dissertation involving high-speed jet noise predictions at Penn State University. In just over six years at NASA, Dr. Miller has expanded his research into additional areas of jet noise, theoretical fluid dynamics, and theoretical aeroacoustics. He exhibits leadership qualities within the NASA technical community and internationally, and is often sought for his technical viewpoint from a wide range of research groups. He is active in multiple professional societies in addition to AIAA including the American Mathematical Society, the American Physical Society, and the American Acoustical Society. He is very active in the publication process of many professional society journals and activities within the AIAA Aeroacoustics community. Moreover, his advisement of students at the K-6, undergraduate, and graduate levels, speaking at elementary schools, and judging science fair competitions are evidence of his strong commitment to the surrounding community and advancing science, technology, engineering, and mathematics education.

#### Featured Speaker



Dr. David E. Bowles is the Director of NASA's Langley Research Center, Hampton, VA. NASA Langley, founded in 1917, is the nation's first civilian aeronautical research facility and NASA's oldest field center. Dr. Bowles served as the Deputy Director of NASA Langley from November 2013 to February 2015 prior to his current leadership role.

**SATURDAY, FEBRUARY 27, 2016 – NEWPORT NEWS SHIPBUILDING,  
4101 Washington Ave., Building 520, 6<sup>th</sup> floor, James River Room, Newport News, Virginia 23607**

6:00 PM - Social Hour, 7:00 PM – Dinner, 8:00 PM – Program

Menu choices: Beef Tenderloin Medallions & Crab Cakes with Remoulade Sauce Breast of Chicken Oscar w/ Asparagus, Crab meat and Bernaise Sauce Roasted Stuffed Portabella w/ Vegetables and Cheese Special dietary - please specify

Tickets: \$35 per person. To purchase tickets, please go online to <https://www.eventbrite.com/e/2016-engineer-of-the-year-banquet-tickets-20720004090>, or contact Bill LaBelle at (757) 619-9050 or your professional society's PEC representative.

**Proof of U. S. Citizenship required at event by government issued pictured ID. Citizens of other countries require advance registration. No camera capable cell phones or any audio visual recording devices are permitted in facility**