

# **AEROSPACE NEWS**

Hampton Roads Section

Blue Ridge Chapter

November 2018

## Chair's Message

The AIAA Hampton Roads Section (HRS) sponsored four wonderful events during the month of October: (1) Golf Outing for “*Futures in Aerospace Scholarship*” fundraising on October 4<sup>th</sup> (see details on page 2), (2) Greenbrier Intermediate School STEM&M night in the evening of October 18<sup>th</sup> (see details at right), (3) a C&PD talk titled “*Career Transition*” by **Peter McHugh** in the morning of October 25<sup>th</sup> (see page 3), and (4) the Oyster Roast in the evening of October 25<sup>th</sup> (see page 4).

I want to thank **Rich Wahls** for organizing the Golf Outing, **Liz Ward** for organizing the C&PD talk, **Karen Berger** and **Amanda Chou** for organizing the STEM&M night, and **Tyler Hudson** for organizing the Oyster Roast, as well as all those who participated and/or helped out at these events. Our Section is also seeking judges, referees and general volunteers for the three upcoming FIRST Lego League (FLL) tournaments in Newport News (November 3<sup>rd</sup>), York County (November 10<sup>th</sup>), and Norfolk (November 17<sup>th</sup>). No experience needed! If you are interested in volunteering, please contact **Karen Berger** (for FLL events) at [aiaa.hrs.k12outreach@gmail.com](mailto:aiaa.hrs.k12outreach@gmail.com).

Please see Section Upcoming Events on the last page and contact me if you are interested in getting more involved in our Section.

**Patrick**



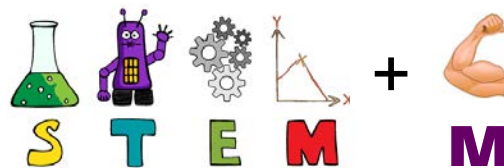
**Patrick Shea**  
HRS Chair

## HRS Participated at STEM&M Night

AIAA HRS sponsored a STEM outreach activity at Greenbrier Intermediate School in Chesapeake, VA on October 18, 2018 as part of their Science, Technology, Engineering, Math and Muscle (STEM&M) Night. The event was open to students and family of Greenbrier Intermediate School. The students moved around from station to station, so out of the 28 activities that were available that night, most of them only attended about five of the activities. Participants had the choice of making straw rockets and/or foam gliders at the AIAA station. There was a steady stream of students participating in this event, and many of them showed enthusiasm on trying to make their glider or their rocket fly farther or better. Several of the students had fun learning about lift, thrust, and control surfaces and went back several times to make modifications of their designs to improve the performance of their gliders or rockets. The AIAA HRS volunteers for this event included **Patrick Shea**, **Karen Berger**, and **Amanda Chou**.

### **Amanda Chou**

AIAA HRS K-12 STEM Outreach Co-Chair



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## Golf Tournament Raises Over \$1500 for HRS Futures in Aerospace Scholarship Fund

The 25th Annual AIAA Golf Outing was held on October 4, 2018 at the Langley AFB Eaglewood Golf Club – Raptor Course. We had 9 teams with 35 players who competed in the Captain's Choice format event on a beautiful, but warmer than normal October day. Everyone had a good time for a great cause - ***\$1523 was raised for the HRS "Futures in Aerospace Scholarship" Fund.*** In addition to future scholarship recipients, the winners were as follows:

Winners	Score/Prize
1 <sup>st</sup> Flight	
<b>1<sup>st</sup> Place</b> Keith Hoffer Carey Buttrill Paul Volk Stuart Johnson	<b>57</b> 4 rounds Williamsburg National Golf Club
2 <sup>nd</sup> Flight	
<b>1<sup>st</sup> Place</b> Tim Bryan Steve Lynch Chris Williamson Chip Quinn	<b>63</b> 4 rounds Cedar Point Country Club
3 <sup>rd</sup> Flight	
<b>1<sup>st</sup> Place</b> Chuck Leonard Sal Buccellato Jeff Robinson Adam Cowling	<b>66</b> 4 rounds Kiskiack Golf Club

The 1<sup>st</sup> flight winning team, sponsored by Adaptive Aerospace, won with a blazing 10-under par 26 on the back nine to edge the team of Jim Burley, Casey Burley, and Jeff Yetter by 1 shot.

The 2<sup>nd</sup> flight winning team, sponsored by Jacobs, edged the team of Jim Thomas, Elwood Putnam, Roman Paryz, and Bob Hall by 2 shots.

The 3<sup>rd</sup> flight winners also won by 2 shots over the team of Bobby Berrier, Neal Frink, Steve Krist, and Rich Wahls.

The closest to the pin honors went to ***Casey Burley*** (Hole 2, 14 inches – 2<sup>nd</sup> year in row for Casey on hole 2!), ***Jim Closs*** (Hole 5, 16'3), ***Chris Williamson*** (Hole 14, 3'4), and ***Kandyce Goodliff*** (Hole 17, 13'2). The Longest Drive winner was ***Roman Paryz*** (Hole 7, loooong and straight!). The "***Larry Green Memorial Shot of the Day***" winner was ***Neal Frink***.

Special thanks go to the *Cedar Point Golf Club (Keith Hoffer)*, *Williamsburg National Golf Club (Jim Thomas)*, *Kiskiack Golf Club + Newport News Golf Club (Liz Ward)*, and *Eaglewood Golf Club (Steve Rizzi and Andy Weissinger)* for donating prizes. Finally, thanks to all the players, and to ***Rich Wahls*** for organizing this golf outing.



NIA Team Sesh Seshadri, Dave Throckmorton, Joan Harper-Neely, and hole 5 closest to the pin winner Jim Closs

## McHugh Presented Talk on Career Transitions

**Peter McHugh**, Director of FAA programs at NIA, presented a Career & Professional Development (C&PD) talk titled “*Career Transitions*” in the morning of October 25, 2018 at the NASA Langley Reid Center. Mr. McHugh, a man of many hats, shares valuable career advice and answers questions about career transitions. He also emphasized the importance of networking, training, speaking up, and keep pursuing ones goals and interest.



Above Left: **Peter McHugh** answers questions about career transitions. Above Right: Mr. McHugh shows the many hats he wore and a souvenir from one of his service post to HRS Treasurer, **Marlyn Andino**.

## Hampton Roads Section

The Hampton Roads Section (HRS) of AIAA, which has a membership of nearly 1000 out of more than 30,000 total for AIAA, represents geographically southern Virginia and southern West Virginia. The membership is made up of employees and contractors of the NASA Langley Research Center, aerospace industry professionals, retirees, as well as student chapters at Old Dominion University (ODU) in Norfolk, National Institute of Aerospace (NIA) in Hampton, and Virginia Tech in Blacksburg. The Hampton Roads Section actively participates in AIAA national initiatives and programs. Local programs are held throughout the year and cater to the needs of the entire membership including young professionals and retirees. The Section annually awards scholarships to graduating high school seniors planning careers related to aerospace engineering. The Section has a very active program in precollege education.



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## HRS Annual Oyster Roast

The Annual Oyster Roast of AIAA HRS was held on October 25, 2018 at the picnic ground of St. George Brewing Company, Hampton, VA. Unique to our region, this yearly event has become a pleasant fall “family” festivity for the Section members, their family/children, and friends. The event provided a relaxed atmosphere for all participants to enjoy the good seafood, the picnic-area playgrounds, and each other’s company. It is also a great opportunity for recruiting new members. Several bushels of oysters and steamed crabs as well as hamburgers and hot dogs were provided along with typical picnic side items and beverages that included beers from the St. George brewery. The weather was “great” for this year’s event and the turnout was excellent, with approximately 140 people in attendance. Our Section would like to thank our Vice Chair and Programs Committee Chair, **Tyler Hudson**, who coordinated this year’s oyster roast, and all those who help out at the event — HRS members: **Marlyn Andino, Greg Buck, Rob Calloway, Manuel “Manny” Diaz, Jack Fitzpatrick, Jeff Flamm, Matt Galles, Tyler Hudson, Steven Massey, Patrick Shea, Sally Viken, Liz Ward, and Rick Winski;** Non-AIAA Members: **K.C. Charnock.** The used oyster shells were also collected by **Ashley Spyker** of Chesapeake Bay Foundation for rebuilding of the oyster reef and oyster population in Chesapeake Bay. Our Section would also like to the St. George Brewing Company that provided the venue for the event.



Fire marshal **Steven Massey** roasts oysters.



Guests help themselves at the food table.



HRS Members and guests enjoy their food at the picnic tables.

## AIAA HRS Facebook

AIAA HRS is now on Facebook. Members can either click the link below, or directly search for “AIAA Hampton Roads Section” on Facebook, and “Like” it so that they can stay tuned with the Section events: <https://www.facebook.com/pages/AIAA-Hampton-Roads-Section/265198983552196>

## New Members Discount

New professional members can receive a \$10 discount if they join AIAA at a Section meeting. They just need to fill out a paper application form and send it to: **Emily Springer**, *American Institute of Aeronautics & Astronautics*, 1801 Alexander Bell Drive, Reston, Virginia 20191-4344; or email a PDF version of the application form to Ms. Springer at [emilys@aiaa.org](mailto:emilys@aiaa.org).

## Membership Information

In an effort to reach all HRS members, we are updating our e-mail mailing list once a month. To help us reach you with news and information on upcoming programs, please verify that your contact information is accurate in the AIAA database, especially your e-mail address. This can be done by accessing your account at the AIAA website, [www.aiaa.org](http://www.aiaa.org) under the topic “My Information.” Something as simple as an e-mail “typo” could prevent you from receiving Section information. Student members should keep their record current, especially seniors, to take advantage of AIAA’s offer of one free year of Professional membership (2nd year 1/2 price). AIAA encourages students to transition into professional members and to become active in AIAA at the Section, Regional & National levels in order to take advantage of all the benefits AIAA has to offer. HRS is offering free program admission to new AIAA members joining at any of the HRS-sponsored events! For more information, please email your inquiries to [aiaa.hrs.membership@gmail.com](mailto:aiaa.hrs.membership@gmail.com).



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### Primary Research Areas

Commercial Supersonic & Space	Unmanned Aircraft Systems (UAS)	NextGen Air Traffic Management
<ul style="list-style-type: none"><li>• Low-Boom Flight Demonstrator</li><li>• Biodynamic Coupling</li><li>• Pilot Modeling</li><li>• Nonlinear Simulation Models</li><li>• Flight Dynamics</li><li>• Handling Qualities</li><li>• Spacecraft Control Design and Analysis</li></ul>	<ul style="list-style-type: none"><li>• UAS Integration in the NAS</li><li>• Detect and Avoid, Separation Assurance Standards Development</li><li>• RTCA SC-228 Subteam Leadership</li><li>• Assured Autonomy</li><li>• ATC Procedures for UAS Integration</li><li>• Small UAS Design, Systems Integration, Flight testing, and Flight Operations</li></ul>	<ul style="list-style-type: none"><li>• ADS-B Transceiver for General Aviation</li><li>• Airborne Precision Spacing</li><li>• Weather in the Cockpit</li><li>• Closely Spaced Parallel Runways</li><li>• Angle-of-Attack Sensors and Usability</li><li>• Human Factors</li><li>• Trajectory-Based Operations</li><li>• General Aviation Flight Testing</li></ul>

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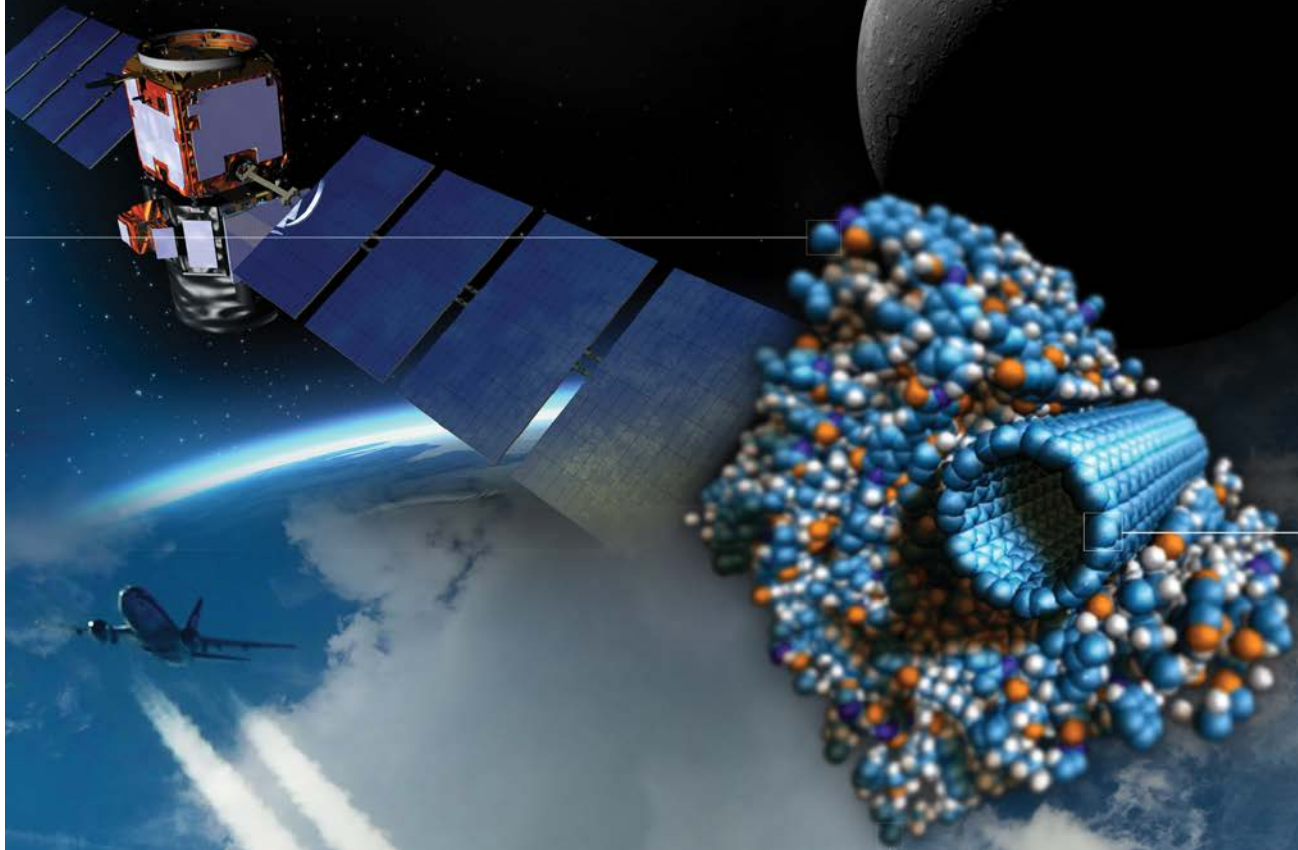
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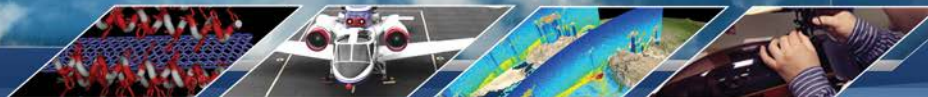
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*Shaping the Future of Aerospace***Section Upcoming Events**

- Peninsula FIRST LEGO League Tournament at Crittenden Middle School, Newport News, on Nov. 3, 2018. [Seeking volunteers!](#) POC: Karen Berger, (757) 864-2279.
- Young Professionals and Leadership Fall Social on Tuesday, Nov. 6, 2018, at NASA Langley Reid 3, Building 2102, 4:30 – 6:30 pm. POC: Michelle Lynde, (757) 864-9097.
- C&PD seminar series: *Career Transitions* with speaker **Thomas Strom** on Friday, Nov. 9, 2018 at NASA Langley Reid 3, Building 2102, 10 am.\*
- York County FIRST LEGO League Tournament (new this year) at Tabb Middle School, Yorktown, on Nov. 10, 2018. [Seeking volunteers!](#) POC: Karen Berger, (757) 864-2279.
- C&PD Fall Semester Student Research Forum on Friday, Nov. 16, 2018, at NASA Langley Reid 3, Building 2102, 9:30 – 11:30 am, featuring Special Guest Speaker **Cecil Mellanson** during lunch. Students interning at NASA or NIA, or students attending ODU or Virginia Tech are invited to submit an abstract, details will be sent to student members via email.\*
- Norfolk FIRST LEGO League Tournament at Norview Middle School, Norfolk, on Nov. 17, 2018. [Seeking volunteers!](#) POC: Karen Berger, (757) 864-2279.
- Young Professionals Fall Lunch & Learn on Wednesday, Dec. 5, 2018 at NASA Langley NACA Room, Building 2102, 11:30 am – 12:30 pm, POC: Michelle Lynde, (757) 864-9097.
- C&PD New Event – AIAA Distinguished Lecture: *The Story of Apollo 8*, on Monday, Dec. 10, 2018, at NASA Langley Pearl Young Theater, Building 2102, 10:00 am, featuring Special Guest Speaker **Robert Kurson**.\*
- PEC/NASA Career Days on Feb. 21 and 22, 2019 at the Newport News Apprentice School Gym. [Seeking volunteers!](#) POC: John Lin, (757) 864-5556.
- PEC 49<sup>th</sup> Annual Awards Banquet on Sunday, Feb. 24, 2019 at Marriott Oyster Point. POC: John Lin, (757) 864-5556.
- Tidewater Science & Engineering Fair at Old Dominion University in March 2019 (date TBD). [Seeking volunteers!](#) POC: Karen Berger, (757) 864-2279.
- Laurence D. Leavitt Lecture featuring 2019 HRS Engineer of the Year, **Dr. Li Wang**, in Spring 2019 (date & location TBD). POC: Tyler Hudson, [aiaa.hrs.vicechair@gmail.com](mailto:aiaa.hrs.vicechair@gmail.com).

\* Non NASA AIAA members can request a visitor badge from Liz Ward ([Elizabeth.b.ward@nasa.gov](mailto:Elizabeth.b.ward@nasa.gov)).  
Non US Citizens need to request a badge 3 weeks in advance.

# **AEROSPACE NEWS**

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