



# FREQUENT FLYER

American Institute of Aeronautics and Astronautics  
Northern Ohio Section

Newsletter - December 2019

## 27th Annual Young Astronaut Day - An Out of This World Success

180 students and 60 teachers/parents were in attendance at the 27<sup>th</sup> Annual Young Astronaut Day (YAD) outreach event held at the Cleveland State University Wolstein Center on November 9<sup>th</sup>, 2019. First through eighth grade students competed in various hands-on STEM challenges meant to simulate the various tasks that NASA engineers work on to help get humans into space. Astronaut Doug “Wheels” Wheelock gave an inspirational keynote address explaining that “ordinary” kids can grow up to do extraordinary things, such as becoming an astronaut and making it into Space. The student activities this year included (and were led by): Lightweight Aerospace Materials (Mary Jo Long-davis), Planetary Lander (Sydney Schnulo), Remote Sensing (David Friedlander), Spacecraft Safety (Jerry Voltz), Robotic Arm (Herb Schilling), and Spudnaut (Dan Londrico). YAD was made possible through the efforts of 50 volunteers, including many regional engineers, the Cleveland State University AIAA student chapter, and several AIAA members. This year’s event was organized by the Northern Ohio Section of AIAA and supported by the Cleveland State University Washkewicz College of Engineering. Thank you to HX5-Sierra, Jacobs, and MSM Group for your generous donation towards this year’s event as well.



Left to right: YAD Co-chairs, Erik Hendricks and Ashlie Flegel, with Astronaut Doug Wheeler, and NOS Chair, Christie Pastor-Barsi.

Additional photos of the event may be found posted at:

[Photo Gallery: Young Astronaut Day 2019](#)

*(Text: Ashlie Flegel, Photos: Edmond Wong)*



Astronaut Doug “Wheels” Wheelock gave an inspirational keynote address to 180 1<sup>st</sup>–8<sup>th</sup> grade students and 60 teachers/parents at the 27<sup>th</sup> Young Astronaut Day.



AIAA NOS 2019 Honors and Awards Picnic

On August 8, 2019, the AIAA Northern Ohio Section (NOS) gathered at the Wallace Lake Canopy at Mill Stream Run Reservation, Berea, Ohio (part of the Cleveland Metroparks), to recognize award recipients and celebrate the accomplishments of the past year. As the event commenced, approximately 65 participants had the opportunity to spend some time socializing, renewing acquaintances, playing games and enjoying a wonderful picnic dinner comprising barbecued ribs, brisket, pork, chicken, and side dishes catered by Famous Dave’s Bar-B-Que. Following the meal, honorees were recognized.

Members of the section received over 30 awards, including a Fellow of the Society, six Associate Fellows, a Wyld Propulsion Award recipient, and many other technical excellence awards. Many members who achieved membership awards this past year were also recognized. A full listing of the awards that were recognized is shown on the following page.

To view additional photos taken during the festivities, visit the photo album posted on the AIAA NOS Facebook page at:

[AIAA Northern Ohio Section - Honors & Awards Picnic 2019](#)

Finally, we are seeking your input to help make next year’s Honors & Awards Picnic even more special. If you have any comments, feedback, or suggestions, contact Bill Marshall, Honors & Awards Chair at [aiaanos.awards@gmail.com](mailto:aiaanos.awards@gmail.com).

*(Text: Bill Marshall, Photos: Edmond Wong)*



AIAA has several member grades, recognizing varying levels of distinguished technical contributions to the profession. For more information about membership grades and how to advance your membership, please visit the AIAA membership advancement website: <https://www.aiaa.org/home/get-involved/honors-awards/Advance-Your-Membership> or contact the Section Honors & Awards Chair.



AIAA NOS Officers (from left to right): Roger Tokars, Ivan Martin, Bill Marshall, Christie Pastor-Barsi, Peggy Cornell, Edmond Wong, and Al Juhasz.

### AIAA 2018-2019 NOS Honorees Listing

#### AIAA Fellow – Class of 2019:

Isaiah Blankson

#### AIAA Associate Fellows – Class of 2019:

Wensheng Huang  
 Mohammad Kassemi  
 William M. Marshall  
 Brian Motil  
 Vedha Nayagam  
 John Slater

#### AIAA Senior Member Upgrades:

Dr. Tadas P. Bartkus  
 Dr. Mina R. Mankbadi  
 Manan A. Vyas  
 Cynthia Calhoun

#### Section Honors 2017-2018

Outstanding Section – 2nd Place  
 Communications – 1st Place  
 Membership – 3rd Place  
 Public Policy – 1st Place  
 STEM K-12 – 3rd Place  
 Young Professional Activity – 2nd Place

#### Section Honors 2018-2019

Outstanding Section – 2nd Place  
 Communications – 1st Place  
 Public Policy – 1st Place  
 STEM K-12 – 3rd Place  
 Section-Student Branch Partnership – 2nd Place  
 Young Professional Activity – 2nd Place

#### AIAA Certificate of Merit – Distinguished Service to the Intelligent Systems Technical Committee

Kevin Melcher

#### 2019 Wyld Propulsion Award

Stanley K. Borowski

#### 2018 Dr. Robert L. Forward Pioneer Award

Bryan Palaszewski

#### AIAA Best Paper (Propulsion & Energy Group)

“Performance Calculations for a Boundary-Layer-Ingestion Fan Stage from Sparse Measurements”, AIAA-2018-1889

John A. Gazzaniga  
 Dr. Tristan A. Hearn  
 David J. Arend  
 John D. Wolter  
 Stefanie M. Hirt

#### Technical Excellence Award (ICME Prize)

“Modeling-driven Damage Tolerant Design of Graphene Nanoplatet/Carbon Fiber/Epoxy Hybrid Composite Panels for Full-Scale Aerospace Structures”

Dr. Brett A. Bednarczyk  
 Dr. Evan J. Pineda  
 Dr. Gregory M. Odegard

#### AIAA Membership Awards:

##### 25 Years of Membership

Dr. Robert J. Bruckner – Assoc. Fellow

##### 40 Years of Membership

Daniel E. Grose  
 J. A. Oliver  
 Dr. Gary Ruff – Assoc. Fellow  
 Craig H. Williams – Assoc. Fellow

##### 50+ Years of Membership – Emeritus Members

(70+ Years)

Leonard E. Stitt (74)  
 John H. Dalton (72) – Assoc. Fellow

(60+ Years)

Isaac Greber (67) – Assoc. Fellow  
 Dr. John A. Murphy (67)  
 Ronald M Gabel (65)  
 Leonard K. Tower (63)  
 William L. Jones (62)  
 Andrew J. Szaniszlo (62)  
 Robert Friedman (61)  
 Dr. Charles A Martin (61) – Assoc. Fellow  
 Ralph J. Gerke (60)  
 Laurence J. Heidelberg (60)  
 Dr. Louis A. Povinelli (60) – Fellow

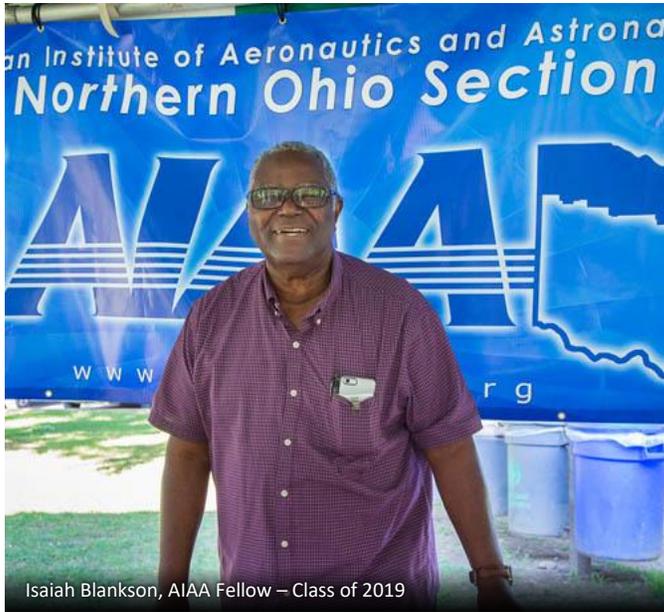
(50+ Years)

James J. Cameron (59)  
 Charles L. Zola (59)  
 Francis J Willie (58)  
 David A. Sagerser (57) – Assoc. Fellow  
 Ronald J. Steinke (57)  
 Dr. Christos C. Chamis (56) – Fellow  
 Dr. Fanghuai H. Ho (52) – Assoc. Fellow  
 Dr. Gary Harloff (51) – Assoc. Fellow  
 Dr. Isaiah M Blankson (50) – Fellow  
 Leo A. Burkard (50)  
 Roger A. Svehla (50)

**Special Thanks** – The AIAA NOS would like to thank all the student volunteers, judges, and volunteers for the 2019 AIAA Region III Student Conference

**Section Certificate of Merit** – Maggie Kolovich “for her hard work & dedication to the Regional Student Conference”

Do you know someone who is deserving of a technical excellence award? Visit the AIAA Honors & Awards site for information on the various awards offered through AIAA and how to submit nomination packages, including student awards: <https://www.aiaa.org/home/get-involved/honors-awards/awards>, or contact the Section Honors & Awards Chair.



Isaiah Blankson, AIAA Fellow – Class of 2019



AIAA NOS members enjoying catered dinner from Famous Dave's Bar-B-Que.



### AIAA NOS Family Day at the Great Lakes Science Center

On October 26th, 2019, the AIAA Northern Ohio Section (NOS) organized a Family Day at the Great Lakes Science Center. NOS Chair, Christie Pastor-Barsi and NOS Vice Chair, Joe Connolly were in attendance with their respective families. They were joined by section members and prospective members for a full and exciting day of exploration. In addition, a wonderful lunch comprising pizza and drinks was provided to all participants courtesy of AIAA NOS.



### AIAA Baseball Outing

On Friday July 19, AIAA NOS members, families, and friends joined over 26,000 other fans at Progressive Field to cheer on the Indians as they defeated their Central Division foe, the Kansas City Royals, 10-5.

The final score was not indicative of the back and forth nature of the contest, as the game remained relatively close until a three-run eighth inning enabled the home team to pull away.

A cool breeze helped to alleviate the game time temperature of 93 degrees with high humidity, and the Dollar Dogs and Bottle Opener Sunglasses giveaway were fan pleasers.

Following the game, those who stayed were treated to a magnificent fireworks show, capping off yet another entertaining AIAA NOS baseball outing.

*(Text and photos: Jonathan Litt)*



### Young Professionals Picnic

Young Professionals (YP) from the AIAA Northern Ohio Section (NOS) were invited to a YP Social Picnic at the South Mastick Picnic Area in Fairview Park, Ohio. The event took place at the picnic and grilling area on July 6<sup>th</sup>, 2019.

The event brought together eleven young professionals to grill food, share information on AIAA activities, discuss how their summers are going, and to just enjoy the weather! There were aviation-themed competitions, including a contest to see who could make and throw paper airplanes the farthest, with the winners awarded aviation-themed prizes. The event also provided an opportunity to introduce the Section's new Young Professional Chair, Iván Martin!

More YP events are being planned for the future. Information about joining AIAA may be found at:

<https://www.aiaa.org/student/>

*(Text: Iván Martin, Photos: Iván Martin and Roger Tokars)*



### AIAA NOS Participates in the Summer Intern/Faculty Conference Day Career Showcase

On June 27th, 2019, the AIAA Northern Ohio Section (NOS) participated in the Summer Intern/Faculty Conference Day Career Showcase. The event took place at the NASA Glenn Research Center (GRC). The Summer Intern/Faculty Conference provides a forum for NASA GRC's summer staff to learn more about the center's aeronautics and space work as well as various opportunities that exist at the center.

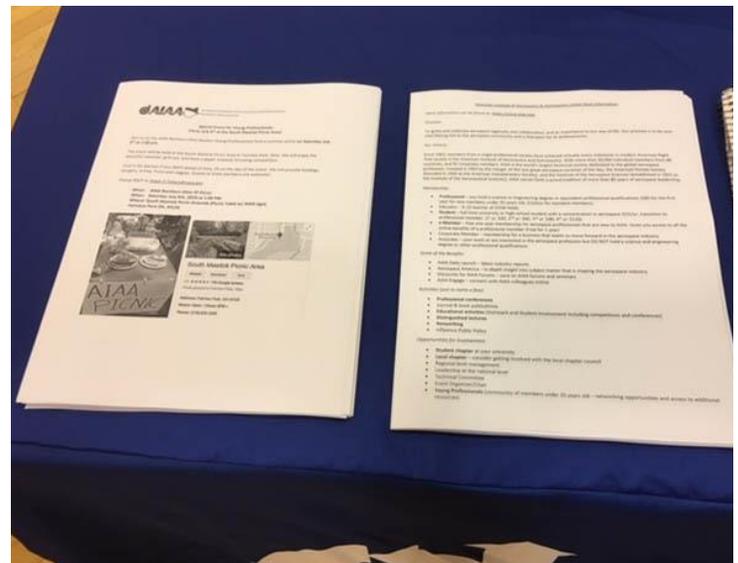


The afternoon was filled by a career showcase which various groups of people from the center supported booths to disseminate information about their work area, research, organization, club, professional society, etc. The NOS membership chair, Erin Tesny, provided support in setting up for the event while STEM K-12 chair, Jonathan Kratz, was present to interact with the students and answer their questions throughout the event. The AIAA table was visited by numerous college and high school students, many of which expressed interest in AIAA. This was the first exposure of AIAA



to some while others were already active student members. The afternoon was jam packed with conversations with young engineers and scientists. Through this outreach event AIAA NOS was able to make direct contact with over 35 students and many more who casually listened in on the conversations and checked out the table. Each visitor was given a handout highlighting information about AIAA and a Young Professionals picnic event was also advertised with much success. In addition, the students were given their selection of a number of promotional items to take home with them. All-in-all, the event provided a good outreach opportunity for the young summer staff at NASA GRC and was a worth-while undertaking for the AIAA NOS.

*(Text and photos: Jonathan Kratz)*



## Northern Ohio Section Officers and Council Members (June 1, 2019 – May 31, 2020)

## Officers

Christine Pastor-Barsi	<i>Chair</i>	aiaanos.chair@gmail.com
Joe Connolly	<i>Vice Chair</i>	aiaanos.vicechair@gmail.com
Jonathan Litt	<i>Secretary</i>	aiaanos.secretary@gmail.com
Kevin Eliason	<i>Treasurer</i>	aiaanos.treasurer@gmail.com
Peggy Cornell	<i>Past Chair</i>	aiaanos.pastchair@gmail.com

## Council Members

Edmond Wong	<i>Communications</i>	aiaanos.communications@gmail.com
Bill Marshall	<i>Honors &amp; Awards</i>	aiaanos.awards@gmail.com
Erin Tesny	<i>Membership</i>	aiaanos.membership@gmail.com
Victor Canacci	<i>Public Policy</i>	aiaanos.policy@gmail.com
Jonathan Kratz	<i>STEM K-12</i>	aiaanos.stem@gmail.com
Al Juhasz	<i>Technical</i>	aiaanos.technical@gmail.com
Aaron Hensley	<i>University</i>	aiaanos.university@gmail.com
Iván Martin	<i>Young Professionals</i>	aiaanos.ypp@gmail.com
Pete Psaras	<i>Section Webmaster</i>	aiaanos.webmaster@gmail.com
Denise Ponchak	<i>Member-At-Large</i>	
Cynthia Calhoun	<i>Member-At-Large</i>	
Maggie Kolovich	<i>Member-At-Large</i>	
Dan Londrico Zachary Allen	<i>Student Branch Representative (CSU)</i>	
David Irwin	<i>Student Branch Representative (YSU)</i>	
Ryan Murphy	<i>Student Branch Representative (CWRU)</i>	



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For additional information about section activities visit:

<https://aiaanos.org>