EMERGENCY PROCEDURES DURING THE EVENT

During the 2019 SAE AeroTech Americas event attendees are to follow the established emergency guidelines of the facility where the emergency occurs. Based on the location of the incident, report emergencies to the nearest venue representative and/or security personnel if available, or report to the SAE registration area.

Should a catastrophic event occur, attendees should follow the safety and security instructions issued by the facility at the time of the event. This includes listening for instructions provided through the public address system and following posted evacuation routes if required.

In the event of an emergency or a major disruption to the schedule of events at AeroTech Americas, attendees and exhibitors may call this number to receive further information about the resumption of this event. Updates will also be provided via the SAE website at www.sae.org and the mobile app.

SAE EMERGENCY HOTLINE
+1.800.581.9295

Customer Service
+1.877.606.7323

SECURITY
No one under the age of 16 is permitted on the exhibition floor unless part of an SAE/AWIM sponsored school tour planned and pre-arranged by SAE.

Consent to use of images
Please note that photographs and video taken by or on behalf of SAE International of event activities and attendees shall be the property of SAE International. By registering for an SAE International event, you consent to the use by SAE International of any photograph or video in which you appear, including for promotional purposes, in print, digital, or other format, without notice or compensation to you.

WIFI INFORMATION
Username: AEROTECH
Password: SAE

EXHIBIT HOURS
Tuesday  12:00 – 7:00 p.m.
Wednesday  9:00 a.m. – 5:30 p.m.
Thursday  9:00 a.m. – 12:00 p.m.

REGISTRATION HOURS
Monday  7:00 a.m. – 5:00 p.m.
Tuesday  7:00 a.m. – 5:00 p.m.
Wednesday  7:00 a.m. – 5:00 p.m.
Thursday  7:00 a.m. – 12:30 p.m.

ADDITIONAL INFORMATION
If you have booked your hotel reservation within the SAE hotel block at the Embassy Suites By Hilton Charleston Airport Hotel, guests will receive continental breakfast each day.
### March 25 - Monday

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:00-4:00 p.m.</td>
<td>Boeing Charleston Plant Tour Bus Departure at 1:00 p.m.</td>
</tr>
</tbody>
</table>

### March 26 - Tuesday

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
</table>
| 9:00 a.m.-12:00 p.m. | Opening Session Keynote Plenary  
- Greg Hyslop, Boeing  
- Governor Henry McMaster  
- Paul Eremenko & Jason Chua, United Technologies  
- Mark Kohler, Gulfstream  
Ballroom A/B |
| 12:00 p.m. | Exhibit Hall Opening |
| 12:00-1:30 p.m. | Lunch in the Exhibits |
| 1:30-3:00 p.m. | Tech Sessions  
Hangar  
Aerospace Market Forecasts  
Flight Deck  
Workshop: Introduction to Propulsion Simulation Using NPSS |
| 3:00-5:30 p.m. | Networking Break  
3:30-5:00 p.m. | Tech Sessions  
3:30-4:30 p.m. | Hangar  
Perspectives on Flying  
Flight Deck (Part 1 of 2) Workshop: Introduction to Composites Fabrication and Assembly in Aerospace, Space, and Transportation |
| 5:00-7:00 p.m. | Evening Reception & Student Poster Presentations Exhibit Hall |

### March 27 - Wednesday

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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</thead>
<tbody>
<tr>
<td>8:30 - 10:30 a.m.</td>
<td>Tech Sessions</td>
</tr>
</tbody>
</table>
| 9:30 - 10:00 a.m. | Hangar Keynote  
Roberto Guerrero, US Air Force |
| 10:30 a.m.-12:00 p.m. | Hangar  
Panel Discussion: Flying Cars - Will You Have One in Your Garage?  
10:30-11:00 a.m. | Networking Break  
12:00-12:30 p.m. | Littlewood Lecture  
12:30-1:30 p.m. | Lunch / Awards Luncheon  
Ballroom A/B  
Sponsored by The Boeing Company |
| 1:30-3:00 p.m. | Tech Sessions  
1:30-2:30 p.m. | Hangar  
Aerospace Economic Opportunities  
Flight Deck (Part 2 of 2) Workshop: Introduction to Composites Fabrication and Assembly in Aerospace, Space, and Transportation  
3:00-3:30 p.m. | Networking Break  
3:30-5:00 p.m. | Tech Sessions |
| 5:00-7:00 p.m. | Evening Reception & Student Poster Presentations Exhibit Hall |

### March 28 - Thursday

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00-10:30 a.m.</td>
<td>Tech Sessions</td>
</tr>
</tbody>
</table>
| 9:30 - 10:00 a.m. | Hangar Keynote  
Yancy Mailes, Air Force Materiel Command  
10:30 a.m.-12:00 p.m. | Hangar  
Panel Discussion: Supersonic Commercial Transport  
10:30-11:00 a.m. | Networking Break  
11:00 a.m.-12:30 p.m. | Tech Sessions |
| 12:30-1:30 p.m. | Lunch |
| 1:30-4:00 p.m. | Tech Sessions |

### March 29 - Friday

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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</thead>
<tbody>
<tr>
<td>10:00-11:30 a.m.</td>
<td>Volvo Tour Bus Departure at 8:30 a.m.</td>
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</table>

### REGISTRATION HOURS
- Monday: 7:00 a.m. - 5:00 p.m.
- Tuesday: 7:00 a.m. - 5:00 p.m.
- Wednesday: 7:00 a.m. - 5:00 p.m.
- Thursday: 7:00 a.m. - 12:30 p.m.

### EXHIBIT HOURS
- Tuesday: 12:00 - 7:00 p.m.
- Wednesday: 9:00 a.m. - 5:30 p.m.
- Thursday: 9:00 a.m. - 12:00 p.m.

For more details including the detailed program schedule and speaker biographies, please go to www.sae.org/attend/aerotechamericas or download the AeroTech Americas Mobile App.
<table>
<thead>
<tr>
<th>March 26</th>
<th>TUESDAY</th>
<th>March 27</th>
<th>WEDNESDAY</th>
<th>March 28</th>
<th>THURSDAY</th>
</tr>
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<tbody>
<tr>
<td><strong>AEROSPACE MARKET FORECASTS</strong></td>
<td><strong>WELCOME AND KEYNOTE ADDRESS</strong></td>
<td><strong>WELCOME AND KEYNOTE ADDRESS</strong></td>
<td><strong>PANEL DISCUSSION</strong></td>
<td><strong>PANEL DISCUSSION</strong></td>
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<tr>
<td>1:30-2:00 p.m.</td>
<td>9:30-10:00 a.m.</td>
<td>9:30-10:00 a.m.</td>
<td>10:30 a.m.-12:00 p.m.</td>
<td>10:30 a.m.-12:00 p.m.</td>
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<tr>
<td>2:00-2:30 p.m.</td>
<td>10:00-10:30 a.m.</td>
<td>Roundtable discussions sponsored by Airbus Americas</td>
<td>Panelists:</td>
<td>Panelists:</td>
<td></td>
</tr>
<tr>
<td>Commercial Transport Engine Outlook</td>
<td>Networking Break</td>
<td>– Brian Yutko, Aurora</td>
<td>– Peter Iosifides, Lockheed Martin</td>
<td>– Eric Kaduce, Boeing</td>
<td></td>
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<tr>
<td>Al Wang, Pratt &amp; Whitney</td>
<td></td>
<td>– Tomohiro Fukuzawa, Cartivator</td>
<td>– Robbie Cowart, Gulfstream</td>
<td>– Robbie Cowart, Gulfstream</td>
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<tr>
<td>2:30-3:00 p.m.</td>
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<td></td>
<td></td>
<td>*Additional panelists to be announced</td>
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<tr>
<td>Helicopter Outlook</td>
<td>12:00-12:30 p.m.</td>
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<tr>
<td>Thierry Derrien, SAFRAN</td>
<td>Littlewood Lecture</td>
<td>12:30-1:30 p.m.</td>
<td></td>
<td>Lunch / Awards Luncheon</td>
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<tr>
<td></td>
<td>Nick Bullen, Northrop Grumman</td>
<td>Ballroom A/B</td>
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<tr>
<td><strong>WORKSHOP (FLIGHT DECK)</strong></td>
<td><strong>WORKSHOP (FLIGHT DECK)</strong></td>
<td><strong>AEROSPACE ECONOMIC OPPORTUNITIES</strong></td>
<td><strong>WORKSHOP (FLIGHT DECK)</strong></td>
<td><strong>PERSPECTIVES ON FLYING</strong></td>
<td></td>
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<tr>
<td>1:30-3:00 p.m.</td>
<td>1:30-2:00 p.m.</td>
<td>1:30-2:00 p.m.</td>
<td>3:30-4:30 p.m.</td>
<td>3:30-4:00 p.m.</td>
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<tr>
<td>Instructors:</td>
<td>Rosemary Coates, Reshoring Institute</td>
<td>Rosemary Coates, Reshoring Institute</td>
<td>Robert Pridgen, Boeing</td>
<td>Nour Eid, Aerospace Technology Institute</td>
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<tr>
<td>David L. Ransom, Charles Krouse, Brendan Nelson-Weiss, Southwest Research Institute &amp; Tom Lavelle, NASA</td>
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<td><strong>WORKSHOP (FLIGHT DECK)</strong></td>
<td><strong>STUDENT POSTER COMPETITION PRESENTATIONS (FLIGHT DECK)</strong></td>
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<tr>
<td>3:30-4:30 p.m.</td>
<td>3:30-2:30 p.m.</td>
<td>1:30-2:30 p.m.</td>
<td>5:00-7:00 p.m.</td>
<td>5:00-7:00 p.m.</td>
<td></td>
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<tr>
<td>(Part 1 of 2) Introduction to Composites Fabrication and Assembly in Aerospace, Space, and Transportation</td>
<td>Innovations in UK Aerospace and the Future of Flight</td>
<td>(Part 2 of 2) Introduction to Composites Fabrication and Assembly in Aerospace, Space, and Transportation</td>
<td>Students will present their posters in the Flight Deck on the Exhibit Hall floor during the evening reception.</td>
<td>Students will present their posters in the Flight Deck on the Exhibit Hall floor during the evening reception.</td>
<td></td>
</tr>
<tr>
<td>Instructor:</td>
<td>Nour Eid, Aerospace Technology Institute</td>
<td>Instructor:</td>
<td></td>
<td><strong>Student Poster Competition Prize Donated in Memory of Richard C. Bullen</strong></td>
<td></td>
</tr>
<tr>
<td>Nick Bullen, Northrop Grumman</td>
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<td>Nick Bullen, Northrop Grumman</td>
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</tbody>
</table>
**EXHIBITOR PROFILE**

**DESOUTTER INDUSTRIAL TOOLS**
1815 Clubhouse Rd
Rock Hill, SC 29730
United States
desouttertools.com
Booth 115

Founded in 1914, Desoutter Industrial Tools is a global leader in electric and pneumatic assembly and drilling tools serving a wide range of assembly and manufacturing operations, including Aerospace, Automotive, Light and Heavy Vehicles, Off-Road, General Industry.

**DSPACE INC.**
50131 Pontiac Trail
Wixom, MI 48393
United States
dspaceinc.com
Booth 302

dSPACE is the world’s leading provider of hardware and software tools for developing and testing electronic control systems. dSPACE systems support numerous aerospace, defense, UAV and space flight technology applications, including: engine development, navigation systems, propulsion, real-time flight maneuver simulation, and testing of on-board systems in virtual test flights. www.dspaceinc.com.

**DUSTCONTROL INC.**
6720 Amsterdam Way
Wilmington, NC 28405
United States
dustcontrol.us
Booth 312

Dustcontrol supplies portable extractors and stationary vacuum systems to help companies all over the world to achieve better results. We are not satisfied with just selling products. We customize portable units and industrial centralized vacuum systems to fit the needs of our customers and to meet requirements such as NFPA.

**ELECTROIMPACT**
4413 Chattanooga Beach Rd
Mukilteo, WA 98275
United States
electroimpact.com
Booth 408

Electroimpact is a highly experienced provider of aerospace factory automation and tooling solutions. Our wide range of projects include complete turnkey Automation Assembly systems (integrated machines and tooling) for Aircraft Wings and Fuselage. Large AFP gantries, Robot AFP’s, and Robotic drill/fill systems. Visit our website for more information.

**ESTECO NORTH AMERICA**
39555 Orchard Hill PI Ste 457
Novi, MI 48375
United States
esteco.com
Booth 109

ESTECO is a pioneer in numerical optimization solutions, specializing in the research and development of engineering software for all stages of the simulation-driven design process. ESTECO’s top-class products, modeFRONTIER and VOLTA, are used worldwide, helping companies increase efficiency in design simulation and accelerate product innovation.

**E-TECH INDUSTRIAL CORPORATION**
121 Skyline Dr
Troy, PA 16947
United States
etechind.com
Booth 303

E-Tech Industrial Corp., located in Troy, PA, designs, develops, manufactures, and distributes power tool attachments. E-Tech’s offerings include both drilling and fastening attachments, as well as custom solutions for the aerospace, automotive and general industries.

**GAGE BILT INC.**
4476C Centre Ct
Clinton Township, MI 48038
United States
gagebilt.com
Booth 305

Gage Bilt, in Clinton Township, MI, celebrates its 63rd year manufacturing a full range of Aerospace and Commercial blind rivet and lockbolt tools. Our innovative designs focus on safety, productivity, ergonomics and FOD control. These include Tools and Split Systems, Right-Angle, Offset and Straight nose assemblies, Power Units, Automated Feeding Systems, Accessories and Spare Parts.

**GT-SUITE SYSTEM SIMULATION**
601 Oakmont Ln Ste 220
Westmont, IL 60559
United States
gtisoft.com/setting-the-standard-in-multi-physics-simulation
Booth 318

Gamma Technologies develops GT-SUITE, the industry-leading multi-physics CAE system simulation software. GT-SUITE provides a comprehensive set of validated 0D/1D/3D component libraries, which simulate the physics of fluid flow, thermal, mechanical, multi-body, electrical, magnetic, chemistry, and controls. From detailed fluid dynamics to complete thermal integration, GT-SUITE offers a powerful solution.

**GULFSTREAM AEROSPACE**
190 Technology Cir
Savannah, GA 31407
United States
gulfstream.com
Booth 101

Gulfstream Aerospace Corporation, designs, develops, manufactures, markets, services and supports the world’s most technologically advanced business-jet aircraft. Gulfstream has produced more than 2,800 aircraft for customers around the world since 1958. Gulfstream offers a comprehensive fleet of aircraft, comprising the GulfStream G280TM, Gulfstream G550TM, Gulfstream G500TM, Gulfstream G600TM, Gulfstream G650TM and the GulfStream G650ERTM.

**JOHANNES LUEBBERING GMBH**
Fastening and Drilling Technology
Industriestrasse 4
Herzebrock-Clarholz 33442
Germany
luebbering.com
Booth 213

LUEBBERING is the leading manufacturer of high precision fastening systems (LPS3) and advanced drilling units (LADUs). The geared offset heads are used worldwide predominantly at the assembly lines of almost all well-known automobile and aircraft manufacturers. LUEBBERING Advanced Drilling Units are used in the assembly halls of many aircraft manufacturers.

**KENNAMETAL INC.**
1600 Technology Way
Latrobe, PA 15650
United States
kennametal.com
Booth 400

Kennametal Inc. (NYSE: KMT) delivers productivity to customers seeking peak performance in demanding environments by providing innovative custom and standard wear-resistant solutions. This proven productivity is enabled through our advanced material sciences and application knowledge.

**KITCO FIBER OPTICS**
5269 Cleveland St
Virginia Beach, VA 23462
United States
kitcofiberoptics.com
Booth 221

KITCO Fiber Optics is a leading provider of fiber optic test kits, termination kits, and certified training for the U.S. Armed Forces. We specialize in the design and fabrication of fiber optic tools, tool kits and cable assemblies that are customized to meet strict military standards.

**KWIBKOLT LTD.**
Leigh Rd
Fleming Ct
Eastleigh
Hampshire S050 9DP
United Kingdom
kwikbolk.com
Booth 118

Kwikbolt is a revolutionary aerospace single sided temporary fastener (SSTF) system that is used blind, designed and manufactured for the tight tolerance and high performance requirements within the aerospace and defence industry.

**KZ SALES INC.**
2763 Fairway Dr NE
Willmar, MN 56201
United States
coversbyzk.com
Booth 214

KZ Sales, Inc. is a registered small business that manufactures custom protective covers. Industries currently served by KZ Sales include: aerospace, manufacturing, HVAC, military, retail stores, and public transport. Examples of materials used in manufacturing these covers are as follows: polypropylene, ASFR poly, ripstop, polyester fabric, and many more.

**LISI AEROSPACE**
Fasteners Business Group
46/50 Quai de la Rapee
Paris 75012
France
lisi-aerospace.com
Booth 309

In the aerospace industry since 1950, LISI AEROSPACE is today a worldwide manufacturing specialist for fasteners and structural components used for the airframe as well as the engine of the aircraft. The core business of the company is metal deformation, complemented by heat-treatment, machining, coating and assembly.

**MAPAL INC.**
4032 Dove Rd
Port Huron, MI 48060
United States
mapal.com/en
Booth 205

MAPAL is the leading international supplier of precision tools for the machining of practically all materials. The company founded in 1950 supplies leading customers from the automotive and aerospace industries and from machine and plant engineering.
MITIS SAS
12 rue Johannes Gutenberg
Bouguenais  44340
France
mitis.fr
Booth 211
MITIS is the reference in Vibration Drilling. This revolution in cutting kinematics is a key solution for demanding holemaking applications, particularly in the context of frame assembly. With its unrivaled expertise in axial machining, MITIS works closely with leading industrial customers, providing innovative solutions for the Factory of the Future.

NORTH CAROLINA A&T STATE UNIVERSITY
1601 E Market St
Greensboro, NC 27411
United States
ncat.edu
Booth 110
Displayed is the 2017-2018 North Carolina A&T State University mechanical engineering aerospace senior design aircraft. The team that designed this aircraft took second place at the 2018 SAE Aero Design West competition. The specialty of this aircraft is its extensive implementation of additive manufacturing and hot wire foam cutting.

NOVARIA
6625 Iron Horse Blvd
North Richland Hills, TX  76180
United States
novariagroup.com/
Booth 208
The ENVELOX™ suite of advanced, non-metallic products include Novaria’s light-weight innovations, improving aircraft structure and reducing assembly time.

OFS, A FURUKAWA COMPANY
2000 Northeast Expressway
Norcross, GA  30071
United States
ofsoptics.com
Booth 203
OFS is a world-leading designer, manufacturer and provider of optical fiber, fiber optic cable, connectivity, fiber-to-the-subscriber (FTTX) and specialty photonics products. We provide reliable, cost-effective solutions for a broad range of applications including, government, aerospace and defense.

SAE INTERNATIONAL
400 Commonwealth Dr
Warrendale, PA 15096
United States
www.sae.org
Booth 417
SAE International is the ultimate knowledge source for mobility engineers. Stop by the SAE booth, located on the right-side of the exhibit hall, near The Hangar, and make key industry connections and learn about the products and services that will help propel you into the future.

SANDVIK COROMANT PRECORP
2024 N Chappel Dr
Spanish Fork, UT  84660
United States
sandvik.coromant.com/en-us/industrysolutions/aerospace
Booth 113
Proven solutions with documented results come from many years of hard work and dedication, with the focus on advanced research and development. Sandvik Coromant has an outstanding offer in total component solutions for the aerospace industry.

VERTICAL FLIGHT SOCIETY
2701 Prosperity Ave Ste 210
Fairfax, VA  22031
United States
vtol.org
Booth 120
The Vertical Flight Society — founded in 1943 as the American Helicopter Society, Inc. — is the world’s only international technical society for engineers, scientists and others working to advance vertical flight technology.

WOLF STAR TECHNOLOGIES LLC
3321 N Newhall St
Milwaukee, WI  53211
United States
wolfstartech.com
Booth 114
Wolf Star Technologies understands the challenges of Product Development and Structural Loading issues that plague every Product Development project. Wolf Star Technologies’ True-Load software is our first to market solution that reconstruct operating loads on structures (e.g. landing gear, lift surfaces, fuselage, structural supports).

YG-1 TOOL (USA) CO.
750 Corporate Woods Pkwy
Vernon Hills, IL  60061
United States
yg1usa.com
Booth 320
Established in 1982, YG-1 has grown to become the world’s largest producer of solid carbide round tools and is committed to providing total tooling solutions to the aerospace industry. It is YG-1’s mission to provide real solutions to the aerospace industry’s most demanding customers in the most difficult materials to machine including titanium, hi-temp alloys, aluminum, and CFRP. With a dedicated, highly trained support staff, YG-1 will assist you from concept to construct. Please visit us at BOOTH # 320.

EXHIBITOR PROFILE
Recognized at Aerotech Americas 2019

The following will be presented during the Awards Luncheon, Wednesday, March 27, 2019

**CHARLES M. MANLY MEMORIAL MEDAL**
Joseph K. Ausserer, United States Air Force Test Pilot School

Co-Authors Not in Attendance:
Jacob A. Baranski, Innovative Scientific Solutions, Inc.
Paul J. Litke, US Air Force Research Laboratory
Marc D. Polanka, US Air Force

**FOREST R. MCFARLAND AWARD**
Gordon L. (Gordy) Allen Retired, The Boeing Company
Reuben Chandrasekharan, Bombardier Learjet
Paul Davies, The Boeing Company

**JAMES M. CRAWFORD EXECUTIVE STANDARDS COMMITTEE OUTSTANDING ACHIEVEMENT AWARD**
Ron Clements, The Boeing Company

**SAE AEROSPACE ENGINEERING LEADERSHIP AWARD**
David Carter, Pratt & Whitney

**THOMAS H. SPELLER**
Holger Maylaender, Broetje-Automation GmbH

**RODICA BARANESCU AWARD FOR TECHNICAL & LEADERSHIP EXCELLENCE**
Laura Hitchcock, The Boeing Company

**WILLIAM LITTLEWOOD MEMORIAL LECTURE**
George (Nick) Bullen, Northrop Grumman Corporation

**WRIGHT BROTHERS MEDAL**
Christian Moller, Fraunhofer IFAM

Co-Authors Not in Attendance:
Christian Boehlmann, Fraunhofer IFAM
Wolfgang Hintze, IPMT TU Hamburg-Harburg
Philip Koch, Fraunhofer IFAM
Simon Kothe, Fraunhofer IFAM
Hans Christian Schmidt, Fraunhofer IFAM
Jörg Wollnack, TU Hamburg-Harburg

**STUDENT AEROTECH POSTER AWARDS**
Recipients to be determined on-site

Additional details on SAE awards can be found at: sae.org/participate/awards.