



## STUDENT CONFERENCE SCHEDULE (Subject to Change)

### WEDNESDAY, NOVEMBER 6, 2019

<b>7:00 AM – 5:00 PM</b>	<b>Conference Registration</b>
<b>7:30 AM – 12:00 PM</b>	<b>Plant Tour: Daimler Trucks NA (Freightliner)</b> Cost: \$25 per person; <b>Must pre-register by October 22, 2019</b>
	<u>Itinerary</u>
7:30 AM	Participant Pickup at Sheraton Charlotte Hotel
8:00 AM	Tour the Daimler Trucks North America facility to site areas of the plant where Freightliner trucks are fully assembled.  <i>NOTE: You must wear appropriate “factory” shoes. This means shoes that are flat, hard soled, and closed toed. No high heels, sandals of any kind are allowed. If anyone shows up with the wrong footwear, the plant will not allow you to participate in the tour. No bags, purses, cell-phones, cameras, etc. will be allowed into the facility. All participants may be subject to security check prior to the tour.</i>
11:30 AM	Depart for return to hotel
<b>1:00 PM – 3:00 PM</b>	<b>Student Track: Robotic Team Check In</b> Each team must check in their robot during this scheduled time. Each team is to report with their robot with team members so that a team picture can be taken.
<b>1:00 PM – 4:00 PM</b>	<b>Student Track: Robotics Prep (Exhibit Area)</b> Once robots are checked in, robots must stay in the exhibit area. Each team will be assigned a table in the conference foyer area among the conference exhibitors to continue fine-tuning their robots and at the same time display their robot for conference attendees viewing and judging.
<b>3:00 PM – 3:30 PM</b>	<b>Refreshment Break</b>
<b>4:00 PM – 5:00 PM</b>	<b>Student Track: Student Division Opening Meeting</b> Asking all student division members to attend. Students will hear from a guest speaker, receive updates to the conference student schedule, and how to get involved this conference as well as future conferences.  <i>Hosts: Amy Frank, ATMAE Student Division President &amp; Joshua Stevens, ATMAE Student Division Vice-President</i>
<b>5:00 PM – 8:00 PM</b>	<b>Student Track: Robotics Prep and Judging (exhibit area)</b> This year public viewing and judging will happen at your team table in the conference foyer among exhibitors. Teams are to be available at their table. During this time, judges will come to your assigned table and ask your team questions and to view your robot design. Teams are encouraged to bring a college table covering, display their robot, and be ready to share details with judges concerning your design and development, teamwork, budget planning, parts list, project management,



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share schematics, pictures, 3D models, and basically anything your team can share and display to impress the judges.

**5:00 PM – 8:00 PM**

**Exhibits Open**

**6:30 PM – 8:00 PM**

**Opening Reception and Robotics Viewing**

Get an up-close preview of the robots that will be competing in the 2019 ATMAE Conference Robotics Competition! Stop by and visit with the teams to learn more about each robot's construction materials, speed, capabilities, and design.

**8:30 PM**

**Student Track: Student Night Out**

Join other ATMAE members for an evening out in uptown Charlotte. Meet in the lobby and we will walk as a group to a nearby location for dinner and networking.



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### THURSDAY, NOVEMBER 7, 2019

<b>7:00 AM – 5:00 PM</b>	<b>Conference Registration</b>
<b>7:00 AM – 9:00 AM</b>	<b>Continental Breakfast</b>
<b>8:00 AM – 9:00 AM</b>	<b>Breakout Presentation Sessions</b>
<b>8:00 AM – 12:00 PM</b>	<p><b>Robotics Display</b></p> <p>The robots competing in the 2019 ATMAE Conference Robotics Competition will be on display in the exhibition area until the competition begins at 12 noon.</p>
<b>8:00 AM – 5:00 PM</b>	<b>Exhibits Open</b>
<b>9:00 AM – 10:00 AM</b>	<p><b>Opening Session and Keynote Speaker</b></p> <p>Attend the opening session to receive a brief overview of the newly released CIP Codes: Applied Engineering 2020 CIP Code: 14.0103, Applied Engineering Technologies/ Technicians 2020 CIP Code: 15.001 and Science/ Technology Management 2020 CIP Code: 52.0216. Learn how they support the accurate tracking, assessment, and reporting of fields of study, program completions activity, and impact faculty.</p> <p>Then hear an insightful keynote address by Thomas Triumph on <i>The Future of Work: Business &amp; Technology Luminaries on the Next 20 Years</i>: The thinking of business and tech luminaries as to the ways in which our world (and lives) will be significantly changed by technology and trends over the next 20 years. And how to prosper.</p> <ul style="list-style-type: none"> <li>• Learn the 10 myths of innovation</li> <li>• Learn the results from a NASA study that can absolutely make you a creative genius</li> <li>• How to improve your thinking according to MIT Professor Dr. Earl Miller</li> <li>• The secrets of world-class innovators and creators</li> <li>• What a widowed neighbor taught a young Steve Jobs about teams and work</li> </ul>
<b>10:00 AM – 10:15 AM</b>	<b>Break</b>
<b>10:00 AM – 12:00 PM</b>	<b>Breakout Presentation Sessions</b>
<b>10:30 AM – 12:00 PM</b>	<p><b>Student Track: Career Round Tables</b></p> <p><b>Students must pre-register by October 4, 2019; there is no additional charge for students to participate in this activity.</b> Students come expand your professional network by participating in the ATMAE Career Round Tables activity. You will be matched with industry representatives to learn about the wide variety of careers paths possible and build a network in the technology, management and applied engineering sectors. Company representatives will share insights on what skills are important in their fields, provide advice for career development, and answer your questions regarding career readiness!</p>



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Prior to arrival onsite registered students will receive a career round table survey via email to assist with matching your primary interest with the participating industry companies.

**10:30 AM – 2:00 PM**

### **Solar and Electric Power Vehicle Display**

Attendees will have the opportunity to view various alternative powered vehicles, bikes or carts on display outside the Sheraton Hotel lobby entrance.

- Tesla Roadster, Model x, Model 3.
- Electrathon Racer
- Shell Eco Marathon Racer
- Sun Trip Competitor
- Electric Bicycles
- Solar Cart
- Hover Cart
- Solar Charging Station
- Balance of Systems for Renewable Energy
- a Homemade Wind Turbine

**12:00 PM – 2:00 PM**

### **Lunch and Robotics Competition**

ATMAE is known across the country for bringing the leading university and college robotics teams together for this captivating competition! Join us while robots navigate the ATMAE warehouse to receive and store container deliveries while avoiding obstacles (equipment and/or employees). Attendees will even be able to place a vote for your favorite robot. You don't want to miss this exciting competition! The winner will be recognized during the Awards Luncheon on Friday.

*Host: Amy Frank, ATMAE Student Division President and Joshua Stevens, ATMAE Student Division Vice President.*

**2:00 PM – 3:00 PM**

### **Robotics Competition: Robot Tag**

ATMAE's robotic teams will be back for this exciting, fast moving, head to head competition. Teams will attempt to capture a flag from other teams for this single elimination competition.

**2:00 PM – 3:00 PM**

### **Breakout Presentation Sessions**

**2:00 PM – 4:00 PM**

### **Poster Presentation Session**

This session offers opportunities to learn more about abstracts selected for oral and poster presentations for professionals and students (undergraduate and graduate level) of Technology, Technology Management, Applied Engineering and other technology programs.

**3:00 PM – 3:30 PM**

### **Break**



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### THURSDAY, NOVEMBER 7, 2019 - continued

**3:30 PM – 5:30 PM**

#### **Student Track: Technology Challenge**

Test your technology, management, and applied engineering know-how in this Jeopardy-style, single-elimination competition. Race for the buzzer with questions on manufacturing, communication, construction, safety, electronics, energy, quality, and management. Intended for undergraduates only. Sign up at the **ATMAE registration desk by 10:00 am Thursday, November 7th**. All registered competitors must attend and check-in at 3:30 pm for information on the rules and release of the competition rounds.

*Host: Dr. Heshium Lawrence, ATMAE Chair Board of Directors*

**3:30 PM – 6:00 PM**

#### **Breakout Presentation Sessions**



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### FRIDAY, NOVEMBER 8, 2019

<b>7:30 AM – 4:00 PM</b>	<b>Conference Registration</b>
<b>7:00 AM – 8:30 AM</b>	<b>Breakfast and ATMAE Annual Business Meeting</b> Members are invited to hear reports from the ATMAE Board Officers of the Association, and to propose and discuss matters of importance to the Association. The agenda for the Annual Business Meeting will be shared with members prior to the meeting and copies made available at the registration desk. For more information about the rules and procedures of the Annual Business Meeting, see ATMAE Bylaws.
<b>8:30 AM – 12:00 PM</b>	<b>Exhibits Open</b>
<b>8:30 AM – 12:00 PM</b>	<b>Breakout Presentation Sessions</b>
<b>9:00 AM – 10:00 AM</b>	<b>Student Track: Lean Lego Simulation Activity</b>
<b>10:00 AM – 11:00 AM</b>	<b>Student Division Meeting with Keynote Speaker, Tom Triumph on “Rules to Rock Your Career (And Life)”</b> Students will receive real-world advice from Tom Triumph on the best rules for launching your career and the mistakes to avoid.
<b>12:00 PM – 1:30 PM</b>	<b>Awards Luncheon</b> The winners of the Robotics Competition, Student Poster Competition, Student Chapter of the Year and Student Scholarships are announced. We will also recognize ATMAE members that have made outstanding achievements in academic and industry excellence.
<b>1:45 PM – 5:30 PM</b>	<b>Charlotte Motor Speedway and Hendrick Motorsports Race Shop Tour</b> Cost: \$65 per person ( <i>minimum of 50 participants required</i> )
	<b><u>Itinerary</u></b>
1:45 PM	Participant pickup at the Sheraton Charlotte Hotel
2:30-3:30 PM	Charlotte Motor Speedway “Feel the Thrill” Track Tour. Visit the Monster Energy NASCAR Cup Series garage area and take a ride through two infield race tracks. After you make your way down Pit Road, stop in Winner’s Circle for a photo opportunity. Learn the history of Charlotte Motor Speedway while enjoying a comfortable van ride around the Superspeedway where you will feel the full-tilt force of the 24-degree banking. Plus, visit zMAX Dragway and The Dirt Track at Charlotte on this exciting tour!
3:45-5:00 PM	Hendrick Motorsports & Racing Museum - #9 Chase Elliot (Alan Gustafson), #24 William Byron (Chad Knaus), #48 Jimmie Johnson (Kevin Meendering), #88 Alex Bowman (Greg Ives). One mile from Charlotte Motor Speedway, the organization is now home to a record 12 car owner championships in NASCAR’s premier division and fields four NASCAR Cup teams with drivers William Byron, Alex Bowman, Chase Elliott and seven-time champion, Jimmie Johnson. Watch teams at work inside viewing areas of the 9/24 and 48/88 shops, see cars on display and snag exclusive souvenirs like tires used in competition at the Museum & Team Store.
5:00 PM	Depart for return to the hotel



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### FRIDAY, NOVEMBER 8, 2019 - continued

2:00 PM – 4:00 PM

#### **Safety Workshop on *Human Performance and Human Error***

presented by James Griffin, Barrier Safety Solutions.

Human Error is the causal factor or culprit in 80% of all incidents. This workshop will take a closer look based on the presenter's investigation of incidents from the three critical perspectives of:

1. Organization
2. Individual
3. Job task

What is human performance? Because most people cannot manage what they do not understand effectively, this question will serve as the effective and instructive place to start the workshop. Understanding the answer to this rhetorical question helps explain why improvement efforts focus not only on results, but also on behavior. Good results can be achieved with questionable behavior. In contrast, bad results can be produced despite compliant behavior, as in the case of following procedures written incorrectly. Very simply, human performance is behavior plus results ( $P = B + R$ )

The workshop will offer an important opportunity for participants to interact with the presenter as he shares his wealth of experience from over two decades of work experience in the critical area of industrial safety with the leading Houston based Oil and Gas firm Schlumberger.