NATIONAL TSA CONFERENCE

June 28–July 2, 2019
Gaylord National Resort
National Harbor, MD

“Model the Way”

#OneTSA  #ModelTheWay
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# Table of Contents

Advisor Update Meetings ................................................................. 18  
American Cancer Society ................................................................. 14  
Award Recipients, Chapter Advisor of the Year .................................. 34-35  
Award Recipients, Special and State Superlative ................................. 31  
Award Recipients, TSA Honor Society ............................................... 36-37  
Chapter Membership Milestones ..................................................... 32-33  
Chartered States .............................................................................. 62  
Code of Ethics .................................................................................. 92-93  
Competition Regulation Committee .................................................. 16-17  
Competitive Event Contributors ....................................................... 37  
Competitive Events Check-In ............................................................. 38-40  
Competitive Events Schedule – High School ........................................ 41-50  
Competitive Events Schedule – Middle School ..................................... 51-58  
CompTIA ......................................................................................... 19  
Conference Highlights ..................................................................... 11  
Conference Management Team ......................................................... 6  
Conference Planner .......................................................................... 24-25  
Conference Speakers ....................................................................... 12  
Dress Code ...................................................................................... 96  
Emergency and Security Information ................................................ 8  
Floor Plans ....................................................................................... 94-95  
General Information ........................................................................ 7  
General Sessions ............................................................................. 13  
IT Fundamentals+ Certification Exams for Advisors ............................ 18  
Junior Solar Sprint (JSS) Event Schedule ............................................ 64  
LEAP (Leadership. Education. Achievement. Personal Growth.) .......... 30  
Meet and Greet ................................................................................. 15  
Mobile Applications/Communications ............................................... 10  
Motto and Creed .............................................................................. 2  
Nashville, TN (2020 National TSA Conference) .................................... back cover  
National TSA Officer Candidate Campaign ....................................... 23  
National TSA Officer Candidates ....................................................... 20-21  
National TSA Officer Duties ............................................................... 22  
National TSA Officer Elections ......................................................... 23  
National TSA Officers ..................................................................... 3  
National TSA Staff .......................................................................... 6  
Partner Hub ....................................................................................... 15  
Program of Activities (Schedule-at-a-Glance) ..................................... 70-88  
Proposed Bylaw Amendment ............................................................... 91  
Resolutions ....................................................................................... 23  
Semifinalist and Finalist Posting ........................................................ 14  
Special Interest Sessions .................................................................. 26-29  
Spectator Events ............................................................................... 89-90  
State Delegation Meetings ................................................................. 60-61  
State Delegations Photo Schedule ..................................................... 59  
TEAMS Best in State Ranking ............................................................ 67-69  
TEAMS Program and Competitions ................................................... 65  
Transportation Information ................................................................. 9  
TSA and TEAMS - STEM Excellence .................................................. 66  
TSA, Inc. Board of Directors ............................................................... 6  
VEX Robotics Event Schedule ............................................................ 63  
Welcome Letter, Maryland Governor .................................................. 5  
Welcome Letter, National TSA President ............................................ 4
The Technology Student Association Motto: 
Learning To Lead In A Technical World

The Technology Student Association Creed:

• I believe that technology education holds an important place in my life in the technical world. I believe there is a need for the development of good attitudes concerning work, tools, materials, experimentation, and processes of industry.

• Guided by my teachers, artisans from industry, and my own initiative, I will strive to do my best in making my school, community, state, and nation better places in which to live.

• I will accept the responsibilities that are mine. I will accept the theories that are supported by proper evidence. I will explore on my own for safer, more effective methods of working and living.

• I will strive to develop a cooperative attitude and will exercise tact and respect for other individuals. Through the work of my hands and mind, I will express my ideas to the best of my ability.

• I will make it my goal to do better each day the task before me, and to be steadfast in my belief in my God, and my fellow Americans.
2018-2019 National TSA Officers

PRESIDENT
Alexander King
G.W. Carver High School
Columbus, GA

SECRETARY
Audrey Garoutte
Carl Junction High School
Carl Junction, MO

VICE PRESIDENT
Isabella Eleogo
Brewbaker Technology Magnet High School
Montgomery, AL

REPORTER
Ben Abt
Harriton High School
Rosemont, PA

TREASURER
Emma Hopson
Arapahoe High School
Centennial, CO

SERGEANT-AT-ARMS
Ashley Stokes
Carl Junction High School
Carl Junction, MO
Welcome TSA Members,

On behalf of the 2018–2019 national TSA officer team, it is my distinct pleasure and honor to welcome each of you to the 41st National TSA Conference at National Harbor near Washington, D.C. How amazing is it to experience one of the world’s most historical and educational destinations? Our nation’s capital embodies our 2019 National TSA Conference theme: “Model the Way”—as the foundations laid here generations ago, paved the way for the treasures we experience today.

This conference will allow you to put to the test all of the hard work you have done throughout this school year. You have modeled the way all year and now is your time to shine. More than 70 TSA competitions offer many opportunities in which to excel. During this time, you will compete among the best from across the country, to showcase leadership and STEM skills in the national spotlight.

When not competing, I encourage you to attend the general sessions, professional leadership training, special interest sessions, and meetings. Be sure to participate in the Pin Exchange, Meet and Greet, and 2019–2020 national TSA officer election.

TSA, I hope you are ready for five days of learning, networking, friends, and fun. At the 2019 National TSA Conference, that is exactly what we have in store for you!

Warmest Regards,

Alexander King
2018–2019 National TSA President
Dear Friends:

Welcome to the 2019 National Technology Student Association Conference, hosted by the National Technology Student Association! It is my pleasure to provide this message to you on this meaningful occasion.

Since 1978, TSA—a national non-profit organization headquartered in Reston, Virginia—has been devoted to students engaged in technology and interested in a STEM career path. As a Career and Technology Student Organization recognized by the USDE Office of Career, Technical, and Adult Education, TSA is open to students who are enrolled in or who have completed technology courses with a membership of more than 250,000 middle and high school students in 2,000 schools spanning 49 states.

We are honored to have this amazing event right here in Maryland—the cyber capital of America! I encourage our nation’s future tech leaders to take some time out of your busy schedule to explore all that National Harbor has to offer.

Best wishes for an enjoyable event and enjoy your stay here in National Harbor.

Sincerely,

Larry Hogan
Governor, Maryland
National Conference Management Team

Conference Team Manager: B.J. Scott
Courtesy Corps Manager: Robert Dennis
Judge Manager: Jennifer Tolley
Logistics Manager: Frank Calfee
General Session Manager: Sara Reynolds
National TSA Advisor: Amanda Hodges

TSA, Inc. Board of Directors

President and Corporate Member: B.J. Scott
President Elect and Corporate Member: Bud Worley
Past President: Mimi Leonard
Secretary/Treasurer and HS Representative: David Isenbart
Corporate Member: Ben Scheierman
Corporate Member: Dawn Frank
Corporate Member: Shanta Villanueva
Corporate Member: Jerianne Taylor
University Representative: Kenneth Reid
Middle School Representative: Crystal Pelkey
National TSA President: Alexander King
Executive Director: Rosanne T. White

National TSA Staff

Cooky Bysura: Graphic Designer
Cindy Donahue: TEAMS Assistant Manager
Hillary Lee: Unite Manager
Janice Cabahug: Competitions Manager
Jenn Glover: TEAMS Manager
Kathleen Litschgi: Marketing Manager
Kelly Gulich: Conference Manager
Leanne Guido: Systems Manager
Lynda Haitz: Program Manager
Maria Raza: Office Manager
Rosanne T. White: Executive Director
Sandy Honour: Project Manager
Sudha Kamath: Communications Manager
Sue King: Junior Solar Sprint Manager
Suzy Orr: Membership Manager
Virginia Williams: Business Manager
General Information

Registration/Information Desk
The TSA Registration/Information Desk is located at Potomac Registration Desk A and will be open the following hours:

- **Friday, June 28**: 12:00 PM – 8:00 PM
- **Saturday, June 29**: 9:00 AM – 5:00 PM
- **Sunday, June 30**: 9:00 AM – 5:00 PM
- **Monday, July 1**: 9:00 AM – 5:00 PM
- **Tuesday, July 2**: 7:00 AM – 9:00 AM

TSA Store
The 2019 National TSA Conference store is located in Camellia 3 & 4 and will be open the following hours:

- **Friday, June 28**: 12:00 PM – 8:00 PM
- **Saturday, June 29**: 9:00 AM – 5:00 PM
- **Sunday, June 30**: 9:00 AM – 5:00 PM
- **Monday, July 1**: 9:00 AM – 2:00 PM

Show Your Badge Program
Take some time to explore all that National Harbor’s retailers, restaurants, and attractions have to offer with National Harbor’s Show Your Badge program. Simply show your official TSA Conference Badge at participating businesses to receive various discounts or offers.

Business Center
The Business Center is located on the second floor of the Gaylord National Resort. Hours are 6:00 AM – 9:00 PM every day of the week and is available for anyone to use. 301-567-0457.

Trophies and Finalist Pins
National TSA provides one complimentary trophy each to the first, second, and third place winners and lapel pins to the top ten finalists and their advisors. Purchasing duplicate trophies is available to first, second, and third place winners following the conference from First Place Trophy at: info@firstplacetrophy.com.

Lost and Found Policy
National TSA is not responsible for any items that are lost during the conference. Any lost items can be turned in to the conference information desk, Potomac Registration Desk A.

Get Social
Get social with TSA! Use #OneTSA and #ModelTheWay and tag photos and posts of the 2019 National TSA Conference and around Washington, D.C. on TSA’s social media pages. Follow us on:

- 🐦 @NationalTSA
- 📝 /NationalTSA
- 👤 @nationaltsa
Emergency and Security Information

All guests are encouraged to review the safety and security guidelines included in the guest room key packet given at check-in, as well as safety information located in each guest room. All conference participants should determine a safety plan as hotel guests.

This plan should include:

• Reviewing the emergency exit information provided in sleeping rooms.
• Checking for exits in meeting rooms — especially the nearest exit to your seat in the general session ballroom.
• Leaving a room immediately in case of an emergency. Do not take time to gather any belongings.
• Having a pre-determined central place to meet your chapter members outside of the hotel if the hotel has been evacuated.
• Not opening your hotel door to people you do not know.
• Traveling in pairs. Always let your chapter advisor or parent know your whereabouts.
• Follow any rules set forth by your chapter advisor.
• If you see something...say something.

Gaylord National Resort and Convention Center is committed to providing a safe and secure environment for all guests. All Safety Service agents are trained first responders and certified for both CPR and AED. A Safety Services leader is available 24-hours a day by dialing extension 333 from any house phone should a guest wish to discuss any issues.

In Case of Emergency at Gaylord National Resort Call:
Emergency: 333
Security/Safety: 54500
Lost and Found: 54520
Fire Department: 9-911
Hotel Operator: 0

Local Emergency Contact Information

Emergency/Urgent Care
Ft. Washington Medical Center
11711 Livingston Road
Fort Washington, MD 20744
301.292.7000

Pharmacy
CVS Pharmacy
162 Fleet St
National Harbor, MD 20745
301.686.0248

On-Site Safety Services
201 Waterfront Street
National Harbor, MD 20745
301.965.4500

Police Department
5135 Indian Head Highway
Oxon Hill, Maryland 20745
Non-Emergency: 301.749.4900

Lost and Found: 54520
Hotel Operator: 0
Complimentary TSA Shuttles
Complimentary shuttle service is available to 2019 National TSA Conference registered attendees staying at the Harborside Hotel or the MGM National Harbor to the Gaylord National Resort and Convention Center. Shuttle service will be available in the morning and evening with limited service in the afternoon. Guests may board the shuttles by showing their room key or hotel-provided bus pass.

Stops:
• Gaylord National Resort and Convention Center (Maryland Bus Loop, beyond the Woodrow Wilson doors)
• Harborside Hotel (Front Entrance)
• MGM National Harbor (Theatre Entrance on Monument Dr.)

Hours of Operation:
• Friday: 12:00 PM – 10:00 PM
• Saturday – Monday: 7:00 AM – 11:00 AM
  11:00 AM – 6:00 PM, limited service
  6:00 PM – 10:00 PM
• Tuesday: 6:30 AM – 11:30 AM

National Harbor Circulator
The National Harbor Circulator provides an easy and economical way to get in and around the National Harbor. Call 703.478.0911 for details and the latest schedule.

Stops:
• Waterfront District on St. George Blvd.
• Gaylord National Resort and Convention Center
• Tanger Outlets (by the merchant wall on Oxon Hill Rd.)
• MGM National Harbor (on Monument Dr.)

Hours of Operation:
• Sunday – Thursday: 11:00 AM – 10:15 PM
• Friday and Saturday: 11:00 AM – 1:00 AM

Cost:
• $5 for an all-day pass
• Gaylord National Resort guests can ride complimentary by showing their room key

Water Taxi
To schedule water taxi service at your own expense from National Harbor to key locations in Washington, D.C., Virginia, and Maryland, Potomac Riverboat Company can be reached at 703.684.0580.

Other
To schedule tours or transportation at your own expense, the Transportation Desk at the Gaylord National Resort and Convention Center can be reached at 301.965.2081.
National TSA Conference Mobile Applications/Communication

Members can take advantage of mobile scheduling applications during the National TSA Conference. Please make sure your cell phone/mobile device is charged before each general session.

TSA Conference Mobile Application

Members who use mobile devices can download the free TSA app from either the App Store or Google Play. This application enables users to access the competitive event schedules and the full program of activities and customize their personal conference. Visit the App Store (iOS) or play.google.com (Android) and search for TSA Mobile Schedule to access the free app.

To customize either the iPhone or Android App for your individual schedule, you will need your username and password. The username is the conference ID number printed on your name badge and the password is set by your chapter advisor.

To set the mobile password for those attending with your chapter (chapter advisors only):

- Go to www.registermychapter.com/tsa/nat and click on National Conference Registration. Click on High School or Middle School, then select Set Mobile Password. Select Log In and enter your username and password. Create and save your mobile password.

TSA Email Communication

Have a question, comment, or concern during the 2019 National TSA Conference? Contact the national TSA staff during the conference via email at conference@tsaweb.org. Please allow a response time of up to 24 hours. For immediate assistance, visit the information desk. This email address is only active and monitored from June 28–July 2, 2019.

TSA Text Communication

For your safety and for immediate information in case of a conference-wide emergency, please opt in to the text communication service being used by TSA.

Text TSA to 313131. You will receive a confirmation that says: “Thank you for joining our list. Reply STOP to end.” At the end of the conference, reply STOP TSA to remove yourself from the list. Regular text messaging rates apply.
Conference Program

Conference Highlights

Opening General Session
Saturday, June 29, 9:00 AM – 11:00 AM  
Potomac Ballroom
The opening general session will feature the Parade of State Flags ceremony that includes a presentation of colors by the Naval Health Clinic Annapolis Color Guard. Guy Cecil, chair of Priorities USA, will be the keynote speaker.

TSA Pin Exchange
Saturday, June 29, 11:00 AM – 11:30 AM  
Cherry Blossom Foyer
Sunday, June 30, 11:00 AM – 11:30 AM  
Cherry Blossom Foyer
Attendees have the opportunity to share and exchange pins for one-half hour after the first two general sessions.

Town Hall: Preparing Students for Careers in Technology
Saturday, June 29, 2:00 PM – 3:00 PM  
Cherry Blossom Ballroom
Sponsored by CompTIA/Creating IT Futures, this discussion will focus on issues facing parents as they guide their teens through post-secondary education options and career opportunities in technology.

TSA Partner Hub
Saturday, June 29, 1:00 PM – 5:00 PM  
Potomac Pre-Function
Sunday, June 30, 1:00 PM – 5:00 PM  
Potomac Pre-Function
At the TSA Partner Hub and the TSA Meet and Greet, network with representatives from companies, universities, non-profit associations, and other organizations that support STEM and IT education and careers. The TSA Meet and Greet also offers opportunities to learn about the 2019–2020 national TSA officer candidates’ platforms.

Cybersecurity Competition – Virtual Live Scoring
Saturday, June 29, 4:30 PM, 7:00 PM, 8:30 PM  
Sunday, June 30, 2:00 PM, 6:30 PM  
Cherry Blossom Ballroom
Cybersecurity is a rapidly expanding field in Information Technology that deals with protecting computer systems including the hardware, software, data storage, and network. Check out the preliminary real-time scores on the big screen to see which teams are solving the most challenges!

CompTIA Pro Senior Night Celebration
Monday, July 1, 7:00 PM – 9:00 PM  
RiverView Ballroom
Class of 2019 and TSA alumni are invited to a fun, new event featuring ice cream sundae bar, games, photo stations, and prizes! See page 19 for more information. *Only graduating seniors from chapters that have pre-registered for the conference and and TSA alumni will be admitted.
Conference Speakers

2019 National TSA Conference Keynote

Guy Cecil
Chair, Priorities USA

“Failing and Serving our Way to the Top”
Mr. Guy Cecil was a TSA member for six years. He served as president of Florida TSA, national TSA reporter, national TSA president, and as a member of the Competition Regulations Committee.

Since graduating from the University of Florida, Mr. Cecil has spent time as a high school teacher, minister, community and political leader, field organizer, non-profit board chair, and university adjunct lecturer.

Currently, Mr. Cecil is chair of Priorities USA, an advocacy organization focused on protecting and expanding voting rights, mobilizing underrepresented communities in American elections, and building a long-term digital infrastructure. He is the senior strategist for Priorities USA Action, which supports Democratic candidates and will be active in 2020 elections. He is also the founder and president of Miles Strategies.

Saturday, June 29, 9:00 AM – 11:00 AM Potomac Ballroom

LEAP/The Student Leadership Challenge Training

Gary M. Morgan
Founder & CEO, Gary Morgan & Co. and Student Leadership Excellence Academy, LLC

Mr. Gary M. Morgan is a co-author of several books in The Student Leadership Challenge program upon which TSA’s LEAP is based. He is also a certified master trainer for The Leadership Challenge and a certified facilitator of The Student Leadership Challenge. Mr. Morgan is also founder and CEO of Gary Morgan & Co. and The Student Leadership Excellence Academy, LLC.

As an experienced speaker, Mr. Morgan shares his knowledge of research-based, proven, and experimental methodologies—inspiring audiences to achieve their leadership potential. He believes “nothing extraordinary happens without great leadership” and “anyone can learn to become a great leader.”
General Sessions

All general sessions will take place in the Potomac Ballroom. Please be aware that the ballroom will be at full capacity during every general session. If you plan on sitting with a group, be sure your group is together prior to entering the ballroom. Saving seats will not be allowed. Overflow seating is available in the nearby Cherry Blossom Ballroom where the general sessions will be live-streamed on large screens.

Opening General Session - General Session I
Saturday, June 29, 9:00 AM – 11:00 AM
The National TSA Conference opens with a Parade of State Flags ceremony that includes a presentation of colors by the Naval Health Clinic Annapolis Color Guard. Guy Cecil, chair of Priorities USA, will deliver the keynote address: “Failing and Serving our Way to the Top.” The TSA Chorus—consisting of student members selected by TSA state advisors from across the country—will perform, directed by Mrs. Debbie Hamlin. CompTIA scholarships will be awarded. Doors will open at 8:00 AM.

Recognition Assembly - General Session II
Sunday, June 30, 9:00 AM – 11:00 AM
National TSA officer candidates will deliver their campaign speeches. Also, national membership awards and special awards will be presented (see page 31). The American Cancer Society will award certificates. Tiffany Ashton will perform. Doors will open at 8:00 AM.

Business Meeting - General Session III
Monday, July 1, 9:00 AM – 11:00 AM
Voting Delegate Seating, 7:00 AM – 7:30 AM
TSA’s annual business meeting includes the election of national TSA officers by the voting delegates. Doors will open at 7:00 AM.

Awards Ceremony - General Session IV
Tuesday, July 2, 8:00 AM – 11:00 AM
The highlight of the national conference is the awards ceremony, which recognizes all national competitive event finalists. Trophies are awarded to the top three finalists in each category. Finalist pins are awarded to the top ten finalists and their chapter advisors. Doors will open at 7:00 AM.

* No bags larger than the TSA drawstring backpack will be permitted at any of the general sessions. All bags are subject to inspection. National TSA is not responsible for lost or stolen items.
Semifinalist and Finalist Posting

Semifinalists
Semifinalist lists (in random order) will be posted on-line via the website, TSAweb.org, and on the TSA Mobile App as competitions are judged. Printed lists will also be posted in the Chesapeake Pre-Function area.

A semifinalist is an individual or a team that qualifies to compete in the semifinal round of a event—which usually involves up to twelve competitors—in order to place as a finalist (top ten).

Top Ten Event Finalists
Top ten competitive event finalists in middle and high school events will be posted on TSAweb.org on July 2, 2019.

Following the National TSA Conference
Visit TSAweb.org and click on the links under “What’s New” for important post-conference information, including the conference survey.

American Cancer Society

Sunday, June 30, 9:00 AM – 11:00 AM
During the Recognition Assembly of the National TSA Conference, TSA chapters and states will be honored for their fundraising efforts through the TSA/ACS Spirit of Service Awards program. Those who achieved the Silver, Gold and Purple levels of fundraising will be announced and the following recognitions will be made:

- The TSA chapter that raised the most money
- The state whose chapters raised the most money collectively
- The top three states that raised the most money per member
- The top region that raised the most money

Award certificates can be picked up at the TSA Meet and Greet.

Sunday, June 30, 1:00 PM – 5:00 PM
Visit the American Cancer Society (ACS) table at the TSA Meet and Greet in the Potomac Pre-Function area. Meet with an ACS representative to learn more about the Relay For Life movement, and take part in an ACS activity!
TSA Partner Hub and TSA Meet and Greet

National TSA fosters connections with organizations in STEM-related fields that support the enhancement of personal development, leadership, and STEM education and careers for TSA members. At the Partner Hub and the Meet and Greet—learn about opportunities to help you succeed in STEM.

TSA Partner Hub
Saturday, June 29, 1:00 PM – 5:00 PM
Potomac Pre-Function
Sunday, June 30, 1:00 PM – 5:00 PM
Potomac Pre-Function
Visit the TSA Partner Hub and get your “Rockin’ the Royal in DC” ribbon.

• Apprenticeship.gov
• Army Educational Outreach Program (AEOP)
• CompTIA
• Computer Science for TSA
• International Technology and Engineering Educators Association (ITEEA)
• Wiley

TSA Meet and Greet
Sunday, June 30, 1:00 PM – 5:00 PM
Potomac Pre-Function

• 2018–2019 National TSA Officers
• 2019–2020 National TSA Officer Candidates
• American Cancer Society
• APIA (Asian and Pacific-Islander American) Scholars
• Association for Career and Technical Education (ACTE) | Engineering and Technology Education Division (eTED)
• Chief Architect Software
• Computer Science Teachers Association (CSTA)
• Florida A&M University-Florida State University College of Engineering
• Goodheart-Willcox
• LEAP Legacy Chapter National Semifinalists
• Liberty University
• Science, Naturally!
• Stokes Educational Services
• TechGirlz
• Technology Engineering Education Collegiate Association (TEECA)
• Tiffany Ashton
• Virginia Tech Academy of Integrated Science
• WVUteach | WVU Center for Excellence in STEM Education

Discover how apprenticeship programs can launch a career.

APPRENTICESHIP.GOV
## 2018–2019 Competition Regulation Committee

<table>
<thead>
<tr>
<th><strong>HIGH SCHOOL</strong></th>
<th><strong>Coordinator</strong></th>
<th><strong>Manager</strong></th>
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<tbody>
<tr>
<td>3D Animation</td>
<td>Shanta Villanueva</td>
<td>Yue-Ling Wong</td>
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<td>Animatronics</td>
<td>Philip Peavy</td>
<td>Dale Moll</td>
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<td>Architectural Design</td>
<td>Artie Lowrey</td>
<td>Sid Rader</td>
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<tr>
<td>Biotechnology Design</td>
<td>Clint Rickert</td>
<td>Matt Walton</td>
</tr>
<tr>
<td>Board Game Design</td>
<td>Ryan Chang</td>
<td>Dale Moll</td>
</tr>
<tr>
<td>Chapter Team</td>
<td>Roger Hanshaw</td>
<td>Bud Worley</td>
</tr>
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<td>Children's Stories</td>
<td>—</td>
<td>Kaitlin Cook</td>
</tr>
<tr>
<td>Coding</td>
<td>Rob Mecham</td>
<td>Emily McAdams</td>
</tr>
<tr>
<td>Computer-Aided Design (CAD), Architecture</td>
<td>Brian Matthews</td>
<td>Bud Worley</td>
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<td>Computer-Aided Design (CAD), Engineering</td>
<td>Brian Matthews</td>
<td>Bud Worley</td>
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<tr>
<td>Computer Integrated Manufacturing (CIM)</td>
<td>Mark Harrell</td>
<td>Valerie McCauley</td>
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<tr>
<td>Cybersecurity</td>
<td>Robert Garber</td>
<td>Ryan MacDonald</td>
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<tr>
<td>Debating Technological Issues</td>
<td>—</td>
<td>Kristin Rausch</td>
</tr>
<tr>
<td>Digital Video Production</td>
<td>Lynn Basham</td>
<td>Tara Royal</td>
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<tr>
<td>Dragster Design</td>
<td>Ron McQueen</td>
<td>Steve Price</td>
</tr>
<tr>
<td>Engineering Design</td>
<td>Patrick Pudlo</td>
<td>Sid Rader</td>
</tr>
<tr>
<td>Essays on Technology</td>
<td>Greta Preston</td>
<td>Leigh Davis</td>
</tr>
<tr>
<td>Extemporaneous Speech</td>
<td>Dan Peacock</td>
<td>Wanda Walker</td>
</tr>
<tr>
<td>Fashion Design and Technology</td>
<td>Susan James</td>
<td>Valerie McCauley</td>
</tr>
<tr>
<td>Flight Endurance</td>
<td>Jeff Olney</td>
<td>Dale Moll</td>
</tr>
<tr>
<td>Forensic Science</td>
<td>—</td>
<td>Valerie McCauley</td>
</tr>
<tr>
<td>Future Technology and Engineering Teacher</td>
<td>Emily Hummell</td>
<td>Anton Jackson</td>
</tr>
<tr>
<td>IT Fundamentals</td>
<td>Robert Garber</td>
<td>Ryan MacDonald</td>
</tr>
<tr>
<td>Music Production</td>
<td>Rachelle Ferguson</td>
<td>Hal Harrison</td>
</tr>
<tr>
<td>On Demand Video</td>
<td>Dominick Manusos</td>
<td>Hal Harrison</td>
</tr>
<tr>
<td>Photographic Technology</td>
<td>Charlene Gross</td>
<td>Matt Walton</td>
</tr>
<tr>
<td>Prepared Presentation</td>
<td>Tim Linkenheimer</td>
<td>Leigh Davis</td>
</tr>
<tr>
<td>Promotional Design</td>
<td>Angela Quarles</td>
<td>Steve Price</td>
</tr>
<tr>
<td>Scientific and Technical Visualization (SciVis)</td>
<td>Robert Klockman</td>
<td>Kristin Rausch</td>
</tr>
<tr>
<td>Software Development</td>
<td>Robert Garber</td>
<td>Emily McAdams</td>
</tr>
<tr>
<td>Structural Design and Engineering</td>
<td>John Bratton</td>
<td>Valerie McCauley</td>
</tr>
<tr>
<td>System Control Technology</td>
<td>Robert Stokes</td>
<td>Natalie Norman</td>
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<tr>
<td>Technology Bowl</td>
<td>John Boyd</td>
<td>Natalie Norman</td>
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<tr>
<td>Technology Problem Solving</td>
<td>Alisa Rushing</td>
<td>Andy Stephenson</td>
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<tr>
<td>Transportation Modeling</td>
<td>Ron McQueen</td>
<td>Steve Price</td>
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<td>Video Game Design</td>
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<td>Matt Walton</td>
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<tr>
<td>Webmaster</td>
<td>Emily Hummell</td>
<td>Anton Jackson</td>
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2018–2019 Competition Regulation Committee

**MIDDLE SCHOOL**

**Coordinator**  
Biotechnology: Chaka Shipp  
CAD Foundations: Yue-Ling Wong  
Career Prep: Rose Thomas  
Challenging Technology Issues: Emily Gresham  
Chapter Team: Roger Hanshaw  
Children's Stories: Tanya Snook  
Coding: Yue-Ling Wong  
Community Service Video: Redmond Grigg  
Construction Challenge: James Mason  
Digital Photography: Ron McQueen  
Dragster: Justin Touchstone  
Electrical Applications: Brian Wagaman  
Essays on Technology: Jim Cobbs  
Flight: Jolene Davis  
Forensic Technology: Bob Walters  
Inventions and Innovations: Charles Mosley  
Junior Solar Sprint: David Isenbart  
Leadership Strategies: Adam Frenzel  
Mass Production: Shenica Bridges  
Mechanical Engineering: —  
Medical Technology: Jennifer Smith  
Microcontroller Design: Amber Collier  
Off the Grid: Bob Walters  
Prepared Speech: Darin Humes  
Problem Solving: —  
Promotional Marketing: Diana Rickert  
STEM Animation: Mark Burbank  
Structural Engineering: Robert Stokes  
System Control Technology: Steven Stokes  
Tech Bowl: Kate Russell  
Technical Design: Rajan Jani  
Video Game Design: Emily Hummell  
Website Design:  

**Manager**  
Biotechnology: Matt Walton  
CAD Foundations: Kristin Rausch  
Career Prep: Andy Stephenson  
Challenging Technology Issues: Wanda Walker  
Chapter Team: Bud Worley  
Children's Stories: Katie Cook  
Coding: Emily McAdams  
Community Service Video: Hal Harrison  
Construction Challenge: Frank Calfee  
Digital Photography: Matt Walton  
Dragster: Steve Price  
Electrical Applications: Natalie Norman  
Essays on Technology: Leigh Davis  
Flight: Dale Moll  
Forensic Technology: Valerie McCauley  
Inventions and Innovations: Tara Royal  
Junior Solar Sprint: Sue King  
Leadership Strategies: Kristin Rausch  
Mass Production: Kristin Rausch  
Mechanical Engineering: Tara Royal  
Medical Technology: Tara Royal  
Microcontroller Design: Emily McAdams  
Off the Grid: Dale Moll  
Prepared Speech: Leigh Davis  
Problem Solving: Andy Stephenson  
Promotional Marketing: Wanda Walker  
STEM Animation: Anton Jackson  
Structural Engineering: Andy Stephenson  
System Control Technology: Natalie Norman  
Tech Bowl: Natalie Norman  
Technical Design: Frank Calfee  
Video Game Design: Matt Walton  
Website Design: Anton Jackson
Advisor Update Meetings

Chapter advisors (and parents serving as advisors for chapters at this conference) are required to attend daily TSA advisor meetings in the Cherry Blossom Ballroom to receive important information about the conference.

Attending advisors will receive the following gift each day.

Friday, June 28
4:00 PM - 5:00 PM
5:00 PM - 5:15 PM
First-time attending advisors and parents serving as advisors are asked to stay after the meeting from 5:00 PM – 5:15 PM.

Saturday, June 29
11:30 AM - 12:30 PM

Sunday, June 30
11:30 AM - 12:30 PM

Monday, July 1
11:30 AM - 12:30 PM

TSA will not distribute or sell advisor gifts at the information desk. Advisors may only obtain their gifts by attending the daily advisor update meetings on the day the gift is distributed. A gift coupon may not be turned in at the information desk at any time in exchange for a daily advisor gift.

IT Fundamentals+ Certification Exams for Advisors

The CompTIA IT Fundamentals+ Certification exam is offered to pre-registered chapter advisors. TSA chapter CompTIA's ITF+ Certification, one of many IT certifications offered by CompTIA, is an introduction to basic IT knowledge and skills that form the basis for a foundational understanding of careers within the Information Technology field. There is no on-site registration to take the ITF+ Fundamentals Certification exam. For advisors who pre-registered to take the CompTIA IT Fundamentals+ Certification Exam, please sign up for one of the below sessions:

Friday, June 28
7:00 PM – 9:00 PM

Sunday, June 30
2:00 PM – 3:30 PM
3:30 PM – 5:00 PM
5:00 PM – 6:30 PM
CompTIA Scholarship

The CompTIA Scholarship for Future Technologists is made available through a generous contribution by CompTIA. Ten recipients each will be awarded a one-time, $2,500 scholarship for post-secondary education tuition. As part of the published criteria, applicants demonstrated their future educational and career goals and how their knowledge of technology impacted career choices. TSA congratulates the scholarship recipients on their scholastic and personal accomplishments.

CompTIA Scholarship Winners

- Tilden J. Chao
- Charlotte Cheng
- Ammar Dharani
- Scott Milner
- Devan Patel
- Robert Peltekov
- Payton Penelope Schaap
- Felix Shi
- Devon Summerville
- Sarah Xi

Town Hall: Preparing Students for Careers in Technology

Saturday, June 29, 2:00 PM – 3:00 PM   Cherry Blossom Ballroom

Sponsored by CompTIA/Creating IT Futures and chaired by Creating IT Futures CEO Charles Eaton, this important discussion will focus on the issues facing parents and educators as they guide students through post-secondary education options and career opportunities in technology. A panel, featuring parents and IT industry representatives, will explore vital information such as teen views on careers, the STEM/IT job market, and options for gaining the skills to enter careers in technology.

CompTIA Pro Senior Night Celebration

Monday, July 1, 7:00 PM – 9:00 PM   RiverView Ballroom

To celebrate the accomplishments of the Class of 2019 and TSA alumni, TSA’s partner, CompTIA Pro, will host the first Senior Night Celebration featuring great activities! Everyone who attends will receive a free T-shirt designed especially for the event.

Attendees will enjoy an ice cream sundae bar, tables of candy, giant games such as checkers, Connect 4™, Battleship™, etc., photo stations, and technology-related prizes. A DJ will emcee the games and activities. CompTIA representatives will talk with seniors and alumni about careers in technology.

This free event replaces the Graduating Senior/Alumni Reception. Only pre-registered Class of 2019 and TSA alumni will be able to attend. Chapter advisors, underclass chapter members, parents, and guests may not attend. Admittance bracelets are included in chapter registration packets based on the number of Class of 2019 participants registered by chapter advisors. There is no onsite signup.
2019–2020
National TSA Officer Candidates

Candidate for President

Ashley Stokes

Candidates for Vice President

Audrey Garoutte  Tate Green  Alexis Miniat  Apu Mutyala

Candidate for Treasurer

Maria Arguelles

Candidates for Reporter

Christina Cunningham  Angel Koshy  Lexi Vencill
Candidates for Secretary
No Candidates

Candidates for Sergeant-At-Arms
No Candidates

Refer to the TSA Bylaws for complete election information.

**Article IV, Section 5**
If there is only one candidate for an office, the candidate must receive at least two-thirds (2/3) of the total votes from the votes cast. In this type of election, delegates may vote ‘Yes’, ‘No’, or may abstain. To be elected, an unopposed candidate must receive an affirmative two-thirds (2/3) vote from the total number of votes cast for that candidate by the delegates.

**Article IV, Sections 9**
If no one applies for a particular office by the official deadline date for a national officer candidate application or an unopposed candidate does not receive a two-thirds (2/3) majority, there shall be a special election called after the general election takes place at the annual business meeting.

**Article IV, Sections 10**
Those National Officer Candidates not elected to a National Office at the annual business meeting shall be the only members to be able to participate in the special election, however are not required to.

The special election shall be conducted after the winners of the general election have been announced. The participants of the special election may not campaign prior to the special election.

The special election shall not have any runoffs. The winner of the special election shall be the person with a plurality of the vote and will be announced immediately following the tabulation of the votes.

See page 91 for the Proposed Bylaw Amendment.
Duties of the National TSA Officers

The national TSA officers shall consist of a president, vice-president, secretary, treasurer, reporter and sergeant-at-arms. No individual may serve more than one term as a national officer in the same office.

**PRESIDENT**

*It shall be the duty of the TSA President to:*
- Preside at all meetings.
- Make necessary committee appointments including the designation of a committee chair.
- Develop with the executive committee a program of work for the term of office.
- To be available, as necessary, in promoting the general welfare of TSA.

**VICE PRESIDENT**

*It shall be the duty of the TSA Vice President to:*
- Serve in any capacity as directed by the president.
- Accept the responsibility of the president as occasion may demand.
- Serve as chairperson of the TSA Council of State Presidents.
- To be available, as necessary, in promoting the general welfare of TSA.

**SECRETARY**

*It shall be the duty of the TSA Secretary to:*
- Serve in any capacity as directed by the president.
- Record proceedings of all meetings.
- To be available, as necessary, in promoting the general welfare of TSA.

**TREASURER**

*It shall be the duty of the TSA Treasurer to:*
- Serve in any capacity as directed by the president.
- Keep records and membership reports.
- To be available, as necessary, in promoting the general welfare of TSA.

**REPORTER**

*It shall be the duty of the TSA Reporter to:*
- Serve in any capacity as directed by the president.
- Accumulate and keep up-to-date information on the history of the association.
- Prepare articles for TSA publications, professional magazines, journals, newspapers and other news media.
- Contact other association members concerning news items for publication.
- To be available, as necessary, in promoting the general welfare of TSA.

**SERGEANT-AT-ARMS**

*It shall be the duty of the TSA Sergeant-at-Arms to:*
- Serve in any capacity as directed by the president.
- Assist in the preparation and control of the meeting place, in the event that a parliamentarian is not appointed by the president to assist in conducting all meetings according to parliamentary procedure as set forth by the current edition of Robert’s Rules of Order, Newly Revised.
- To be available, as necessary, in promoting the general welfare of TSA.
The election of the 2019-2020 national officer team will take place through the TSA conference app. This voting method allows for efficient run-offs and for the results of the election to remain anonymous until they are announced at the awards general session. Please make sure that your cell phone is fully charged for the business meeting (paper ballots will be available for those without phones). See page 10 of the conference program for directions on downloading the app.

Conference app voting requires that:
1. All voting delegates be present at the business meeting.
2. Each voting delegate use his/her charged cell phone to vote.

A mandatory election tutorial session for state presidents will take place at the State President’s Meeting on Saturday, June 29 at 1:00 PM in National Harbor 6.

Meet the 2019-2020 national TSA officer candidates at the TSA Meet and Greet on Sunday, June 30, from 1:00 PM to 5:00 PM. Candidates will be at their campaign tables in the Potomac Pre-Function area. Voting for the candidates will take place on Monday, July 1, during the annual business meeting in the Potomac Ballroom. Voting delegate seating takes place from 7:00 AM to 7:30 AM.

Chartered states have one vote for each state officer (six maximum), plus two additional votes for each affiliated chapter in the state delegation in attendance. Voting delegates must be present. A registered parliamentarian will be present. The election of the 2019-2020 national officer team will take place through voting via the conference app. Voting delegates should eat prior to the meeting and have their phone charged.

Members interested in formally proposing a resolution at this national conference must follow the guidelines as posted on the national TSA website at TSAweb.org/TSA-Bylaws. All resolution forms must be submitted to national TSA president, Alexander King by 12:00 PM Sunday, June 30.
<table>
<thead>
<tr>
<th>Time</th>
<th>Friday, June 28</th>
<th>Saturday, June 29</th>
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<tbody>
<tr>
<td>8:00am</td>
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<td>State Flag Representatives Meeting 7:15 am – 8:45 am</td>
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<td>Opening General Session (I) 9:00 am – 11:00 am</td>
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<td>Information Desk Open 9:00 am – 5:00 pm</td>
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<td>Special Interest Sessions 11:00 am, 11:30 am, 12:30 pm, 1:00 pm</td>
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<td>TSA Pin Exchange 11:00 am – 11:30 am</td>
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<td>12:00 NOON</td>
<td>National Conference Check-in and Registration Packet Pick Up 12:00 pm – 8:00 pm</td>
<td>Competitive Events 11:00 am – 7:00 pm</td>
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<td>12:30pm</td>
<td>State Flag Representative Photos 12:00 pm – 3:00 pm</td>
<td>LEAP/Student Leadership Training 11:30 am</td>
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<td>Advisor Update Meeting 11:30 am – 12:30 pm</td>
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<td>State Advisor Forum 12:30 pm – 2:30 pm</td>
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<td>CRC Managers Meeting 2:00 pm – 3:00 pm</td>
<td>Town Hall: Preparing Students for Careers in Technology 2:00 pm – 3:00 pm</td>
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<td>LEAP/Student Leadership Training 2:30 pm</td>
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<td>National Officer Candidates Mtg 3:00 pm – 4:00 pm</td>
<td>Special Interest Session 3:00 pm</td>
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<td>CRC Event Coordinators Meeting 5:00 pm – 6:00 pm</td>
<td>TSA Region Meetings 5:00 pm – 6:00 pm</td>
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<td>Sunday, June 30</td>
<td>Monday, July 1</td>
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<td>TEAMS Competition</td>
<td>Voting Delegate Seating</td>
<td>Awards Ceremony (General Session IV)</td>
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<td>8:30 am – 2:30 pm</td>
<td>7:00 am – 7:30 am</td>
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<td>Recognition Assembly</td>
<td>Annual Business Meeting (General Session III)</td>
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<td>(General Session II)</td>
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<td>TSA Pin Exchange</td>
<td>Special Interest Sessions</td>
<td>National TSA Officers Meeting (new officers)</td>
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<td>Competitive Events</td>
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<td>VIP Luncheon (invitation only)</td>
<td>TSA Corporate Board Meeting</td>
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<td>LEAP/Student Leadership Training</td>
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<td>TSA Partner Hub/Meet and Greet</td>
<td>CRC/Students Forum</td>
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<td>CRC/Advisors Forum</td>
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<td>Special Interest Sessions</td>
<td>Corporate Member &quot;Drop-In&quot;</td>
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<td>Corporate Member &quot;Drop-In&quot;</td>
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<td>Special Interest Session</td>
<td>Competitive Event Pick-ups</td>
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<td>State Delegation Meetings</td>
<td>TEAMS Awards Ceremony</td>
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<td>CompTIA Pro</td>
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<td>Senior Night Celebration</td>
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Special Interest Sessions

For the LEAP/The Student Leadership Challenge Training schedule, see page 30.

Saturday, June 29

11:00 AM  
Azalea 2

Getting Smart on Artificial Intelligence
How does Netflix suggest the perfect movie for you? Scientists and engineers are finding patterns in data to enable machines to make decisions—impacting everything from social media to disease diagnosis. Discover how AI works and how you can be a part of it.

Presented by Roopa Vasan, Senior Signal Processing/Machine Learning Engineer, Leidos

11:00 AM  
Magnolia 3

STEM at the United States Naval Academy
Learn how the U.S. Naval Academy prepares midshipmen to interface with multiple technologies; exposes them to the interdependence of different disciplines in STEM military technologies; and enhances their technical proficiency and communication skills.

Commander Martin Fajardo, U.S. Naval Academy

11:30 AM  
Azalea 1

Integrating TSA into the Classroom
Learn how to integrate TSA activities into standards-based curriculum at the middle and high school level.

Presented by Jerianne Taylor, Ph.D., North Carolina TSA State Advisor & Appalachian State University Professor

11:30 AM  
Azalea 3

Bring STEM To Life for All Students!
Open to all teachers and students considering a career as a technology and engineering STEM educator. Learn how to design and deliver an exciting and engaging technology and engineering lesson that your students deliver to your district’s elementary! Access ITEEA’s online educator resources to improve your program and engage your students to become future technology and engineering teachers!

Presented by Steve Barbato, Executive Director/CEO, ITEEA

12:30 PM  
Azalea 2

The Flight of the Drones: A Sequel
Learn the latest in drone technology from an expert who has spent many years working on the technical side of the music and film industries and currently utilizes drones to document accident and crime scenes for public safety organizations.

Presented by Douglas Spotted Eagle, Director of Educational Programming, Sundance Media Group
**Special Interest Sessions**

**Saturday, June 29**

1:00 PM  
**Magnolia 3**  
**Computer Science Teachers Association: A Helpful Resource for STEM Teachers**  
Explore the benefits of CSTA membership while exploring resources available for teaching computing concepts.  
*Presented by Jen Smith, CSTA*

1:00 PM  
**Azalea 1**  
**SES Humanoid Robotic National Championships: Robotic Dance and Storytelling**  
National finalists in the high school and middle school divisions demonstrate their programs of a robotic dance or story to compete in the championships.  
*Presented by Robert Stokes, Owner/President, Stokes Educational Services*

3:00PM  
**Magnolia 3**  
**New Middle School Events 2020–2021**  
Learn about specific changes for middle school events and receive a preview of new events included in the 2020–2021 Middle School Competitive Events Guide.  
*Natalie Norman and Dale Moll, Competition Regulations Committee*

**Sunday, June 30**

11:00 AM  
**Azalea 2**  
**Help Inspire Middle School Girls to Explore Tech**  
The TechGirlz non-profit organization has created 50+ short, interactive workshops known as TechShopz in a Box, which cover a wide variety of technology topics and can be run by anyone, anywhere, to inspire girls.  
*Presented by Alicia Park, National Outreach Manager, TechGirlz*

11:00 AM  
**Azalea 3**  
**3D Home Design Software in the Classroom**  
Chief Architect’s 3D architectural modeling software has been used in a wide range of classes—from architectural drafting to child development; from criminal justice to math. See how it can be used in your own classroom.  
*Presented by Kayla Lockhart, Chief Architect Software*

12:30 PM  
**Azalea 2**  
**Jumpstarting your STEM Startup**  
Use your passion for technology to solve problems and make the world a better place. Turn your knowledge, skills, and abilities into a working tech business through this Q & A with the recipient of a 2018 NTENnny Award for outstanding, non-profit, tech professionals.  
*Presented by Monica S. Flores, Founder, FemaleFounders.Network*
Special Interest Sessions
Sunday, June 30

2:00 PM  Azalea 2
What’s the Best Path to a Career in IT?
More than 1,000,000 jobs are available in IT—from cybersecurity to cloud to big data architecture. Learn the paths available to one of the most lucrative and rewarding career fields.
Presented by Tazneen Kasem, Director, Product Management, CompTIA

3:00 PM  Azalea 3
STEM at the United States Naval Academy
Learn how the U.S. Naval Academy prepares midshipmen to interface with multiple technologies; exposes them to the interdependence of different disciplines in STEM military technologies; and enhances their technical proficiency and communication skills.
Commander Martin Fajardo, U.S. Naval Academy

3:30 PM  Azalea 2
How Will Driverless Vehicles Operate?
Take a closer look at the systems, sensors, and infrastructure that help cars become more autonomous and drive themselves. Understand core principles behind this revolution, and how you can be a part of it.
Presented by Prachi Vakharia, National Academies of Sciences Transport Research Board

5:00 PM  Azalea 2
New Middle School Events 2020–2021
Learn about specific changes for middle school events and receive a preview of new events included in the 2020–2021 Middle School Competitive Events Guide.
Natalie Norman and Dale Moll, Competition Regulations Committee

5:00 PM  Azalea 3
Ready to Race: Junior Solar Sprint
Get up to speed on a fun, hands-on way to sharpen 5th to 8th grade STEM skills through JSS from two experts who have been hosting solar-powered model car races for 20 years.
Presented by Bob Walters, JSS Event Coordinator/retired Tech Ed Teacher, Former Career & Tech Dept. Chair and Dave Buchner, Tech Ed Teacher/Career & Tech Dept. Chair, DeWitt Middle School, Ithaca, NY
Special Interest Sessions

Monday, July 1

11:00 AM Camellia 1
Want to be an Engineer?
What are the types of engineering? Why should you consider becoming an engineer? What can you expect in the field? How can you succeed as an engineering major in college? Learn all that—and key challenges facing engineers in the 21st century and tips for becoming a “T-Shaped Engineer.”
Presented by John Vadnal, Ph.D., School of Engineering, Liberty University Professor

11:30 AM Camellia 2
STEM at the United States Naval Academy
Learn how the U.S. Naval Academy prepares midshipmen to interface with multiple technologies; exposes them to the interdependence of different disciplines in STEM military technologies; and enhances their technical proficiency and communication skills.
Commander Martin Fajardo, U.S. Naval Academy

11:30 AM Magnolia 1
Technology and Engineering Education in Higher Education
Technology and engineering education are necessary careers, but often overlooked by students who are more interested in traditional STEM pathways in higher education. Learn what it means to be an engineering and technology education student and how you can join the movement for engaging the leaders of tomorrow.
Presented by Kaleb Barclay, National Vice President and Daphne Fauber, Reporter, Technology and Engineering Educators Collegiate Association (TEECA)

1:00 PM Camellia 1
New Middle School Events 2020–2021
Learn about specific changes for middle school events and receive a preview of new events included in the 2020–2021 Middle School Competitive Events Guide.
Natalie Norman and Dale Moll, Competition Regulations Committee

3:00 PM Camellia 1
World-class K–16 STEM Opportunities
Curious about the U.S. Army Educational Outreach Program? Lean more about no-cost U.S. Army STEM educational programs, competitions, and internships.
Presented by Christina Weber and Brian Leftridge, AEOP
LEAP
Leadership. Education. Achievement. Personal Growth.

LEAP/The Student Leadership Challenge Training*
Professional training is offered to conference attendees in seven sessions led by Mr. Gary Morgan in Chesapeake Conference Rooms D/E. Mr. Gary M. Morgan is a certified master trainer for The Leadership Challenge and a certified facilitator of The Student Leadership Challenge. See page 12 for Gary’s full bio.

Saturday, June 29
11:30 AM, 2:00 PM, 3:30 PM
The Student Leadership Challenge—Leading Others to do Extraordinary Things

Sunday, June 30
1:00 PM, 2:30 PM
How Your Leadership Matters in TSA Competitions

Monday, July 1
11:30 AM
Leading in Middle School and Beyond
2:00 PM
Leading in High School and Beyond

LEAP Legacy Chapter
Come and meet the national semifinalist chapters competing as participants in the TSA Meet and Greet on Sunday, June 30.
National semifinalists include the following schools:

**HIGH SCHOOL**

Academy for the Arts, Science & Technology
Myrtle Beach, South Carolina

Boyertown Area Senior High
Boyertown, Pennsylvania

Braden River High School
Bradenton, Florida

Cherokee Trail High School
Aurora, Colorado

Collinsville High School
Collinsville, Illinois

Francis Tuttle Technology Center
Oklahoma City, Oklahoma

George Ranch High School
Richmond, Texas

Palos Verdes Peninsula High School
Rolling Hills Estates, California

Pickens High School
Jasper, Georgia

University High School
Morgantown, West Virginia

**MIDDLE SCHOOL**

Blackwell Middle School
Blackwell, Oklahoma

Clay County Middle School
Clay, West Virginia

Foster Middle School
Longview, Texas

Holman Middle School
Glen Allen, Virginia

Postlethwait Middle School
Camden, Delaware

STEM School Highlands Ranch
Highlands Ranch, Colorado

Turner/Bartels K-8
Tampa, Florida

TSA Congratulates the 2019 Super Star Award Recipients

Special Award Recipients
Honorary Lifetime Achievement Award
Dr. Lynn Basham, Virginia
Dr. Laura Hummell (posthumously), Pennsylvania

Dr. Bob Hanson Distinguished Student Award
Ms. Brooke Slone, Georgia

Goodheart-Willcox State Advisor of the Year Award
Mr. Justin Lauer, Florida

William P. Elrod Memorial Scholarship Award
Mr. Herman Gonzalez, Florida

National TSA Alumni Association Collegiate Scholarship Award
Ms. Emily Hummell, West Virginia

Distinguished Service Award
Mr. Jim Hogan, Missouri

Dr. Harvey Dean Outstanding Recognition Award
Mr. Ervin Connary, New Hampshire

2018–2019 State Superlative Membership Awards

Largest MS Blue CAP Chapter: Buffalo Creek MS, Florida
Largest HS Blue CAP Chapter:
Roosevelt Engineering & Tec Academy, Texas
Largest MS White CAP Chapter: Spillane MS, Texas
Largest HS White CAP Chapter:
South Texas HS for Health Professions, Texas

State With the Most Middle School Chapters: Oklahoma
State With the Most High School Chapters: Georgia
State with the Most Middle School Members: Florida
State with the Most High School Members: Texas
State with the Most Members Overall: Florida
State with the Most Chapters Overall: Georgia

State with the Highest Middle School Membership Growth: Mississippi
State with the Highest High School Membership Growth: Ohio
## 2018–2019 Chapter Membership Milestones

White CAP chapters with 30 or more members are part of our 30+ Circle. Blue CAP chapters with 300 or more members are part of our 300+ Circle.

### 30+ Circle

<table>
<thead>
<tr>
<th>ALABAMA</th>
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<th>WASHINGTON</th>
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<tr>
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<td>Anderson County Career &amp; Tech Norris MS</td>
<td>Juanita HS</td>
</tr>
<tr>
<td>Chelsea MS</td>
<td>Northeast HS</td>
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<td>Denton Magnet MS of Technology</td>
<td>Northwest MS</td>
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<tr>
<td>Florence HS</td>
<td>Sycamore HS</td>
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<td>Spanish Fort MS</td>
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### 300+ Circle

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<tr>
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<td>P.S. duPont MS</td>
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<tr>
<td>Seafood MS</td>
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<td>Braden River MS</td>
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<td>Buffalo Creek MS</td>
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<td>Celebration HS</td>
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<td>Haile MS</td>
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<td>Heron Creek MS</td>
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<td>Lake Asbury Jr. HS</td>
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<td>Lakeland Highlands MS</td>
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<td>Louise R Johnson MS</td>
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<td>Mariner HS</td>
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<td>Milwee MS</td>
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<td>North Port HS</td>
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<td>Palm Bay Magnet HS</td>
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<td>Pine View HS</td>
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<td>R. Dan Nolan MS</td>
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<td>Riverview HS</td>
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<td>Riviera MS</td>
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<td>Sarasota HS</td>
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### MISSISSIPPI

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<td>Cleveland Career Development &amp; Technology Center</td>
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<td>NORTH DAKOTA</td>
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<tr>
<td>Dickinson HS</td>
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### PENNSYLVANIA

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<td>Exeter Township Sr. HS</td>
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<tr>
<td>Governor Mifflin HS</td>
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<td>Kensington HS</td>
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### TEXAS

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<td>Discovery MS</td>
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<td>Ennis HS</td>
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<td>General Benjamin</td>
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<td>Oliver Davis</td>
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<td>George Bush HS</td>
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<td>Hargrave HS</td>
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<td>Katy HS</td>
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<td>Lake Travis HS</td>
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<td>Longview HS</td>
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<td>South Texas HS for Health Professions</td>
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### VIRGINIA

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<td>Luther Jackson MS</td>
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<td>Moody MS</td>
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<td>W.T. Woodson HS</td>
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<td>West Springfield HS</td>
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<tr>
<td>Wilson MS</td>
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</table>

### 2019 National TSA Conference
### 2018–2019
Chapter Membership Milestones

White CAP chapters with 30 or more members are part of our 30+ Circle. Blue CAP chapters with 300 or more members are part of our 300+ Circle.

<table>
<thead>
<tr>
<th>300+ Circle</th>
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<tr>
<td><strong>GEORGIA</strong></td>
<td><strong>NORTH CAROLINA</strong></td>
<td><strong>TEXAS</strong></td>
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<tr>
<td>Champion Theme MS</td>
<td>Atkins HS</td>
<td>Alvarado HS</td>
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<td>Chattanooga Valley MS</td>
<td>Hanes Magnet MS</td>
<td>Americas HS</td>
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<td>Coastal MS</td>
<td>Lufkin Road MS</td>
<td>Athens HS</td>
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<td>Hahira MS</td>
<td>Panther Creek HS</td>
<td>Bel Air HS</td>
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<tr>
<td>Henderson MS</td>
<td><strong>OHIO</strong></td>
<td>Captain John L. Chapin HS</td>
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<td>Lakeside HS - Dekalb</td>
<td>Butler Tech - Liberty Jr. HS School</td>
<td>Carthage HS</td>
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<td>Lithuania MS</td>
<td>Butler Tech - Lakota East HS</td>
<td>Cleburne HS</td>
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<td>Lowndes HS</td>
<td>Butler Tech - Lakota West HS</td>
<td>Cypress Fairbanks HS</td>
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<td>Mary McLeod Bethune MS</td>
<td><strong>OKLAHOMA</strong></td>
<td>Cypress Woods HS</td>
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<td>Miller Grove MS</td>
<td>Claremore Will Rogers Jr. HS</td>
<td>Eastlake HS</td>
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<td>Radium Springs MS</td>
<td>Jenks MS</td>
<td>El Dorado HS</td>
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<td>OKC - Webster MS</td>
<td>John Dubiski Career HS</td>
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<td>Purcell Jr. HS</td>
<td>Keller Center for Advanced Learning</td>
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<td>Tulsa - Memorial Jr. HS</td>
<td>Lewisville HS</td>
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<td>Tahlequah MS</td>
<td>Macarthur HS</td>
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<td>Johnston HS</td>
<td>Tulsa - Memorial</td>
<td>McKinney HS</td>
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<td>Johnston MS</td>
<td>Jr. HS</td>
<td>Mesquite HS</td>
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<td>Perry Community HS</td>
<td>Whittier MS</td>
<td>Montwood HS</td>
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<td><strong>PENNSYLVANIA</strong></td>
<td>Nacogdoches HS</td>
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<td><strong>KENTUCKY</strong></td>
<td><strong>PENNNSYLVANIA</strong></td>
<td>Parkland HS</td>
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<td>Grant County MS</td>
<td>Bala Cynwyd MS</td>
<td>Pebble Hills HS</td>
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<td><strong>MISSISSIPPI</strong></td>
<td>Bedford HS</td>
<td>Roosevelt Engineering &amp; Tec Academy</td>
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<td>Batesville Jr. HS</td>
<td>Colonial MS</td>
<td>Socorro HS</td>
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<td>Madison Career &amp; Technical Center</td>
<td>Daniel Boone Area HS</td>
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<td>West HS</td>
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<td><strong>NEW JERSEY</strong></td>
<td>Whitemarsh HS</td>
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<td>High Point Regional HS</td>
<td>South Fayette Township HS</td>
<td>Deep Run HS</td>
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<td>Howell HS</td>
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<td>Howell MS North</td>
<td>Bearden MS</td>
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<td>Fairview MS</td>
<td>Mountlake Terrace HS</td>
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<td>Rogers HS</td>
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<td>School</td>
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<tr>
<td>Alabama</td>
<td>Anthony Hart</td>
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<td>Van Buren HS</td>
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<td>Conard HS</td>
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<td>Southeast HS</td>
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<td>Parkview HS</td>
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<td>Indiana</td>
<td>Scott Thorne</td>
<td>Franklin Central HS</td>
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<td>Iowa</td>
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<td>Kentucky</td>
<td>Zach Thomas</td>
<td>Lyon County HS</td>
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<tr>
<td>Mississippi</td>
<td>Jennifer Hood</td>
<td>Amory Career and Technical Center</td>
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<tr>
<td>Missouri</td>
<td>Christopher Huhn</td>
<td>Carl Junction HS</td>
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<td>Thomas Loonam</td>
<td>Kingswood Regional HS</td>
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<td>William Herceck</td>
<td>Biotechnology HS</td>
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<td>North Carolina</td>
<td>Joe Busby</td>
<td>Panther Creek HS</td>
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<td>North Dakota</td>
<td>Kelsey Brashears</td>
<td>Mandan HS</td>
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<td>Ohio</td>
<td>Ed Matlack</td>
<td>Butler Tech-Lakota East HS</td>
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<td>Spring Valley HS</td>
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<td>Tennessee</td>
<td>Beth Foreman</td>
<td>Page HS</td>
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<td>Texas</td>
<td>Charles Mosley</td>
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<td>Utah</td>
<td>Peter Edmondson</td>
<td>Lehi HS</td>
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<td>Virginia</td>
<td>Erik Kittelson</td>
<td>Briar Woods HS</td>
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<tr>
<td>Washington</td>
<td>Jim Nelson</td>
<td>Blaine HS</td>
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<tr>
<td>West Virginia</td>
<td>Rex Rush</td>
<td>Hundred HS</td>
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</table>
2018–2019 TSA Chapter Advisor of the Year Award Recipients

MIDDLE SCHOOL CHAPTER ADVISOR OF THE YEAR

ALABAMA
Raven Ivey
Admiral Moorer MS

ARKANSAS
Brandie McKusker
Greenwood Jr. HS

COLORADO
Todd Seip
Pleasant View MS

CONNECTICUT
Megan Hislop
Sage Park MS

DELAWARE
Stephen Lee
P.S. duPont MS

FLORIDA
Nathaniel Bostic
Turner/Bartels K-8

GEORGIA
Amber Clinton
Tucker MS

INDIANA
Kim Lefever
South Adams MS

IOWA
Joe Huebbe
Johnston MS

KANSAS
Debby Jobe
Basehor-Linwood MS

KENTUCKY
James Pennington
Raceland MS

MARYLAND
Robert King
Central MS

MISSISSIPPI
Ronda Rimmer
Cleveland Central MS

MISSOURI
Eric Brown
Cross Keys MS

NEW HAMPSHIRE
Emily Murray
Ross A Lurgio MS

NEW JERSEY
Debbie Sales
Howell MS North

NORTH CAROLINA
Shane Westhafer
Lufkin Road MS

OHIO
John Nicol
Butler Tech-Plains Junior HS

OKLAHOMA
Kari Widener
Blackwell MS

PENNSYLVANIA
Jana Bonds
E. H. Markle Intermediate School

SOUTH CAROLINA
Crystal Pelkey
Florence Chapel MS

TEXAS
Parker Knutson
Stephen F. Austin MS

UTAH
Charles Wardle
Dixon MS

VIRGINIA
Sam Turner
Holman MS

WASHINGTON
Jennifer Degroot
Goodman MS
2018–2019 TSA Technology Honor Society Award Recipients

All recipients of the Technology Honor Society awards should be seated in the front two rows at the Opening General Session in Potomac Ballroom on Saturday, June 29 by 8:45am.

ALABAMA
David Beam
Rae Bell
Josie Billups
Shianne Conn
David Deloney
Brynn Elliott
Abraham Garcia
Yong Hyeon Jo
Collin Lawlor
Jordan Robinson
Austin Thomas
Lee Turner
Makenna Wiseman

MISSISSIPPI
Aswin Arunachalam
Janiece Henderson
Zachary Horton
Daniel Joshua
Ivan Keyes
Tamyria Levy
Mackenzie Morgan
Hannah Ryu
Anna Cate Strong
Marilyn Thomas

MISSOURI
Audrey Hoggatt
Cassie O’Connell

NEW JERSEY
Nicholas Bornkamp
Isabelle Chase
Anna Cheng
Kayla Clink
Madison Dawson
Thomas Foti
Jason Jetter
Rowena Kannaiyan
Ray Milavsky
Ashley Miller
Valerie Molinari
Khushi Sabuwala
Maryann Vazhapilly
Evan Wax

OKLAHOMA
Hope Henderson
Nicolete Johnson
Peyton Lenon
Davin Matthews
Sydeny Maupin
Rileigh Richardson
Hailey Smith
Austin Vinall
Chloe Whitsitt
Christian Widener

PENNSYLVANIA
Breana Mcnamara

TEXAS
Victoria Guerrero
Cesar Meza
Nandini Parikh
Victoria Reid

ARKANSAS
Landon Medlock
Alex Partlow
Sky Walker

FLORIDA
Ryan Brown
Mark Krywko

GEORGIA
Alexis Bowers
Hannah Cortes
Emma Dipuma
Olivia Fountain
Cleo Wynn

KENTUCKY
Abby Susman

PENNSYLVANIA

TENNESSEE
Spencer Berry
Katy Cooke
Christopher Cooper
Jordaan Davis
Maleah Holder
Dylan Holloway
Jaytonn Hunter
Sarah Jennings
Lauren Kelly
Dewayne Mason
Ashanti Moore
Tamiya Temple
Julia Tripp
Zoe Tripp
Josh Ward
2018–2019 TSA Technology Honor Society Award Recipients

All recipients of the Technology Honor Society awards should be seated in the front two rows at the Opening General Session in Potomac Ballroom on Saturday, June 29 by 8:45am.

**VIRGINIA**
Adrianna Guerrero
Zachary Mccoy

**WASHINGTON**
Cameron Mains
Kyle Mervin
Thalisa Saldivar
Alessandra Serena-Takahashi
Jade Smith
Seth Tandon
Jillian Templeton
Briteny Zhu

**WEST VIRGINIA**
Ryan Burns
Colton Davis
Holt Dawson
Micah Deming
Savannah Grooms
Samantha Johnson
Matthew Kolb
Jade Mayle
Jack Miller
Madison Paxton
Kylie Taylor
Paris Williams

**GERMANY**
Johann Holler
Niklas Ludwig
Hanzhi Ma
Nikola Ristic
David Rochmann
Tom Rother

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Special Thanks to the TSA Competitive Event Contributors

**ARMY EDUCATIONAL OUTREACH PROGRAM**

for sponsoring Junior Solar Sprint

**PITSCO EDUCATION**

for sponsoring Dragster Design and Dragster Design Challenge
Important competition update: TSA will not be returning USB flash-drive submissions, and it is highly encouraged that contestants make duplicate copies for their personal records.

Friday, June 28

6:00 PM – 6:30 PM
On Demand Video - HS Cherry Blossom Ballroom

6:00 PM – 9:00 PM
Dragster Design - HS Prince George’s Exhibition Hall E
Dragster - MS Prince George’s Exhibition Hall E
Transportation Modeling - HS Prince George’s Exhibition Hall E

7:00 PM – 9:00 PM
Digital Video Production - HS Chesapeake 4
Future Technology and Engineering Teacher - HS Chesapeake 4
Music Production - HS National Harbor 4
Photographic Technology - HS National Harbor 4
Architectural Design - HS Prince George’s Exhibition Hall D
Microcontroller Design - MS Chesapeake 7
Animatronics - HS National Harbor 15
Inventions and Innovations - MS Prince George’s Exhibition Hall D
Community Service Video - MS Chesapeake 1
Digital Photography - MS Chesapeake 1
Mechanical Engineering - MS Woodrow Wilson D
Promotional Marketing - MS Chesapeake 7
STEM Animation - MS Chesapeake 10
Children’s Stories - HS Chesapeake 1
Promotional Design - HS National Harbor 6
Scientific and Technical Visualization (SciViz) - HS Chesapeake 10
Structural Design and Engineering - HS National Harbor 2
Software Development - HS National Harbor 6
IT Fundamentals+ - HS National Harbor 8
Structural Engineering - MS National Harbor 3
Career Prep - MS Chesapeake L
Children’s Stories - MS Chesapeake L

8:00 PM – 8:30 PM
Challenging Technology Issues - MS National Harbor 1
Leadership Strategies - MS National Harbor 9
Prepared Speech - MS National Harbor 14
Extemporaneous Speech - HS Chesapeake 12
Prepared Presentation - HS Chesapeake J
# Competitive Events Check-In

**High School and Middle School**

All must submit LEAP Report (HS) or LEAP Response (MS)

## Saturday, June 29

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:00 AM – 8:00 AM</td>
<td>Fashion Design and Technology - HS</td>
<td>National Harbor 12</td>
</tr>
<tr>
<td>11:00 AM – 11:30 AM</td>
<td>3D Animation - HS</td>
<td>National Harbor 1</td>
</tr>
<tr>
<td></td>
<td>Coding - HS</td>
<td>National Harbor 5</td>
</tr>
<tr>
<td></td>
<td>Flight Endurance - HS</td>
<td>Maryland Ballroom C</td>
</tr>
<tr>
<td>11:00 AM – 12:00 PM</td>
<td>Cybersecurity - HS</td>
<td>Woodrow Wilson A</td>
</tr>
<tr>
<td></td>
<td>Debating Technological Issues - HS</td>
<td>Woodrow Wilson B</td>
</tr>
<tr>
<td>11:00 AM – 12:30 PM</td>
<td>Tech Bowl - MS</td>
<td>Prince George's Exhibition Hall C</td>
</tr>
<tr>
<td>12:00 PM – 1:00 PM</td>
<td>Computer Aided Design (CAD), Architecture - HS</td>
<td>National Harbor 10</td>
</tr>
<tr>
<td>12:00 PM – 7:00 PM</td>
<td>VEX Robotics Competition - MS</td>
<td>Prince George's Exhibition Hall A</td>
</tr>
<tr>
<td></td>
<td>VEX Robotics Competition - HS</td>
<td>Prince George's Exhibition Hall A</td>
</tr>
<tr>
<td>1:00 PM – 2:00 PM</td>
<td>Junior Solar Sprint - MS</td>
<td>Prince George's Exhibition Hall E</td>
</tr>
<tr>
<td>1:00 PM – 2:30 PM</td>
<td>Forensic Science - HS</td>
<td>Woodrow Wilson B</td>
</tr>
<tr>
<td></td>
<td>Chapter Team - MS</td>
<td>Prince George's Exhibition Hall C</td>
</tr>
<tr>
<td>3:00 PM – 4:30 PM</td>
<td>Chapter Team - HS</td>
<td>Prince George's Exhibition Hall C</td>
</tr>
<tr>
<td></td>
<td>Forensic Technology - MS</td>
<td>Woodrow Wilson B</td>
</tr>
<tr>
<td>3:00 PM – 5:00 PM</td>
<td>Biotechnology - MS</td>
<td>Prince George's Exhibition Hall D</td>
</tr>
<tr>
<td></td>
<td>Construction Challenge - MS</td>
<td>Prince George's Exhibition Hall D</td>
</tr>
<tr>
<td></td>
<td>Medical Technology - MS</td>
<td>Prince George's Exhibition Hall D</td>
</tr>
<tr>
<td></td>
<td>Off the Grid - MS</td>
<td>Prince George's Exhibition Hall D</td>
</tr>
<tr>
<td></td>
<td>Mass Production - MS</td>
<td>Prince George's Exhibition Hall D</td>
</tr>
<tr>
<td>4:00 PM – 6:00 PM</td>
<td>Biotechnology Design - HS</td>
<td>Prince George's Exhibition Hall D</td>
</tr>
<tr>
<td></td>
<td>Board Game Design - HS</td>
<td>Prince George's Exhibition Hall D</td>
</tr>
<tr>
<td></td>
<td>Engineering Design - HS</td>
<td>Prince George's Exhibition Hall D</td>
</tr>
<tr>
<td>5:00 PM – 6:30 PM</td>
<td>Technology Bowl - HS</td>
<td>Prince George's Exhibition Hall C</td>
</tr>
<tr>
<td></td>
<td>Coding - MS</td>
<td>Woodrow Wilson B</td>
</tr>
</tbody>
</table>
### Competitive Events Check-In

**High School and Middle School**

All must submit LEAP Report (HS) or LEAP Response (MS)

---

**Saturday, June 29**

**6:00 PM – 6:30 PM**

Technical Design - MS  
Cherry Blossom Ballroom

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**Sunday, June 30**

**7:00 AM – 8:00 AM**

Computer Integrated Manufacturing (CIM) - HS  
Maryland Ballroom A3

**11:00 AM – 11:30 AM**

Website Design - MS  
Chesapeake I

**11:00 AM – 2:00 PM**

Flight - MS  
Maryland Ballroom C

**11:00 AM – 2:30 PM**

Technology Problem Solving - HS  
Prince George’s Exhibition Hall C

**11:30 AM – 12:00 PM**

CAD Foundations - MS  
Chesapeake 4

**11:30 AM – 1:00 PM**

Electrical Applications - MS  
Woodrow Wilson B

**12:00 PM – 1:00 PM**

Computer Aided Design (CAD), Engineering - HS  
National Harbor 10

**1:00 PM – 1:30 PM**

Video Game Design - MS  
Chesapeake H

**1:30 PM – 3:30 PM**

Essays on Technology - MS  
Woodrow Wilson C

**1:30 PM – 4:00 PM**

Essays on Technology - HS  
Woodrow Wilson B

**3:00 PM – 6:30 PM**

Problem Solving - MS  
Prince George’s Exhibition Hall C

---

**Monday, July 1**

**11:00 AM – 12:00 PM**

System Control Technology - HS  
National Harbor 10

System Control Technology - MS  
National Harbor 11

**12:30 PM – 1:00 PM**

Video Game Design - HS  
Chesapeake 2

Webmaster - HS  
Chesapeake 3
## 3D Animation - HS

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Event Description</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Saturday, June 29</td>
<td>11:00 AM – 11:30 AM</td>
<td>Semifinalist teams report for onsite assignment and LEAP interview time</td>
<td>National Harbor 1</td>
</tr>
<tr>
<td>Sunday, June 30</td>
<td>11:00 AM – 11:30 AM</td>
<td>Semifinalist submit onsite assignment solution</td>
<td>National Harbor 1</td>
</tr>
<tr>
<td>Monday, July 1</td>
<td>1:00 PM – 3:00 PM</td>
<td>Semifinalists report for interview</td>
<td>Chesapeake 5</td>
</tr>
</tbody>
</table>

## Animatronics - HS

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Event Description</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Friday, June 28</td>
<td>7:00 PM – 9:00 PM</td>
<td>Check in, sign up for setup time, and submit LEAP</td>
<td>National Harbor 15</td>
</tr>
<tr>
<td>Sunday, June 30</td>
<td>1:00 PM – 7:00 PM</td>
<td>Set up entry, Presentation/Interview/entry removal</td>
<td>Magnolia 2</td>
</tr>
<tr>
<td>Monday, July 1</td>
<td>11:00 AM</td>
<td>Semifinalists sign up for LEAP interview time</td>
<td>Chesapeake 10</td>
</tr>
<tr>
<td>Monday, July 1</td>
<td>11:30 AM – 1:00 PM</td>
<td>Semifinalist LEAP interviews</td>
<td>Chesapeake 10</td>
</tr>
</tbody>
</table>

## Architectural Design - HS

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Event Description</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Friday, June 28</td>
<td>7:00 PM – 9:00 PM</td>
<td>Check in, set up entry, and submit LEAP</td>
<td>Prince George's Exhibition Hall D</td>
</tr>
<tr>
<td>Monday, July 1</td>
<td>11:00 AM</td>
<td>Semifinalists report for presentation/interview time</td>
<td>Prince George's Exhibition Hall D</td>
</tr>
<tr>
<td>Monday, July 1</td>
<td>11:30 AM – 3:00 PM</td>
<td>Semifinalist presentation/interviews</td>
<td>Prince George's Exhibition Hall D</td>
</tr>
<tr>
<td>Monday, July 1</td>
<td>4:30 PM – 5:00 PM</td>
<td>All entries MUST be picked up</td>
<td>Prince George's Exhibition Hall D</td>
</tr>
</tbody>
</table>

## Biotechnology Design - HS

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Event Description</th>
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</thead>
<tbody>
<tr>
<td>Saturday, June 29</td>
<td>4:00 PM – 6:00 PM</td>
<td>Check in, set up entry, and submit LEAP</td>
<td>Prince George's Exhibition Hall D</td>
</tr>
<tr>
<td>Monday, July 1</td>
<td>11:00 AM</td>
<td>Semifinalists report for presentation/interview time</td>
<td>Prince George's Exhibition Hall D</td>
</tr>
<tr>
<td>Monday, July 1</td>
<td>11:30 AM – 3:00 PM</td>
<td>Semifinalist presentation/LEAP interviews</td>
<td>Prince George's Exhibition Hall D</td>
</tr>
<tr>
<td>Monday, July 1</td>
<td>4:30 PM – 5:00 PM</td>
<td>All displays MUST be picked up</td>
<td>Prince George's Exhibition Hall D</td>
</tr>
</tbody>
</table>
# Competitive Events Schedule
## High School

### Board Game Design - HS

**Saturday, June 29, 4:00 PM – 6:00 PM**  
Check in, set up entry, and submit LEAP  
Prince George's Exhibition Hall D

**Monday, July 1, 11:00 AM**  
Semifinalists report for presentation/interview time  
Prince George's Exhibition Hall D

**Monday, July 1, 11:30 AM – 3:00 PM**  
Semifinalist presentation/interviews  
Prince George's Exhibition Hall D

**Monday, July 1, 4:30 PM – 5:00 PM**  
All entries MUST be picked up  
Prince George's Exhibition Hall D

### Chapter Team - HS

**Saturday, June 29, 3:00 PM – 4:30 PM**  
Submit LEAP and written test  
Prince George’s Exhibition Hall C

**Sunday, June 30, 5:00 PM**  
Semifinalist team representative report for presentation/interview  
National Harbor 7

**Monday, July 1, 12:00 PM – 5:00 PM**  
Semifinals oral presentations and LEAP interviews  
National Harbor 7

### Children’s Stories - HS

**Friday, June 28, 7:00 PM – 9:00 PM**  
Check-in, submit entry, and submit LEAP  
Chesapeake 1

**Sunday, June 30, 12:30 PM**  
Semifinalists report for reading and interview  
National Harbor 4

**Sunday, June 30, 1:00 PM – 5:00 PM**  
Semifinalist reading and interview  
National Harbor 4

**Monday, July 1, 4:30 PM – 5:00 PM**  
All entries MUST be picked up  
Prince George's Exhibition Hall D
# Competitive Events Schedule

## High School

### Coding - HS

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Event Description</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Saturday, June 29</td>
<td>11:00 AM – 11:30 AM</td>
<td>Submit LEAP and sign up for design and construction of the solution heat</td>
<td>National Harbor 5</td>
</tr>
<tr>
<td>Saturday, June 29</td>
<td>12:00 PM – 2:30 PM</td>
<td>Heat #1</td>
<td>National Harbor 5</td>
</tr>
<tr>
<td>Saturday, June 29</td>
<td>3:00 PM – 5:30 PM</td>
<td>Heat #2</td>
<td>National Harbor 5</td>
</tr>
<tr>
<td>Monday, July 1</td>
<td>11:00 AM</td>
<td>Semifinalists sign up for LEAP interview time</td>
<td>Chesapeake 11</td>
</tr>
<tr>
<td>Monday, July 1</td>
<td>11:30 AM – 1:00 PM</td>
<td>Semifinalist LEAP interviews</td>
<td>Chesapeake 11</td>
</tr>
</tbody>
</table>

### Computer Aided Design (CAD), Architecture - HS

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Event Description</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Saturday, June 29</td>
<td>12:00 PM – 1:00 PM</td>
<td>Submit LEAP and Orientation/Set up</td>
<td>National Harbor 10</td>
</tr>
<tr>
<td>Saturday, June 29</td>
<td>1:00 PM – 5:30 PM</td>
<td>Performance</td>
<td>National Harbor 10</td>
</tr>
<tr>
<td>Saturday, June 29</td>
<td>5:30 PM – 7:00 PM</td>
<td>Semifinalist and LEAP interview</td>
<td>National Harbor 10</td>
</tr>
</tbody>
</table>

### Computer Aided Design (CAD), Engineering - HS

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Event Description</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sunday, June 30</td>
<td>12:00 PM – 1:00 PM</td>
<td>Submit LEAP and Orientation/Set up</td>
<td>National Harbor 10</td>
</tr>
<tr>
<td>Sunday, June 30</td>
<td>1:00 PM – 5:30 PM</td>
<td>Performance</td>
<td>National Harbor 10</td>
</tr>
<tr>
<td>Sunday, June 30</td>
<td>5:30 PM – 7:00 PM</td>
<td>Semifinalist and LEAP interview</td>
<td>National Harbor 10</td>
</tr>
</tbody>
</table>

### Computer Integrated Manufacturing (CIM) - HS

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Event Description</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sunday, June 30</td>
<td>7:00 AM – 8:00 AM</td>
<td>Check in, submit documentation, product, manufactured pieces, and LEAP</td>
<td>Maryland Ballroom A3</td>
</tr>
<tr>
<td>Monday, July 1</td>
<td>12:00 PM</td>
<td>Semifinalists report for presentation/interview</td>
<td>Maryland Ballroom A3</td>
</tr>
<tr>
<td>Monday, July 1</td>
<td>12:30 PM – 3:30 PM</td>
<td>Semifinalist assembly session/sales pitch and LEAP interviews</td>
<td>Maryland Ballroom A3</td>
</tr>
<tr>
<td>Monday, July 1</td>
<td>4:00 PM – 4:30 PM</td>
<td>All entries MUST be picked up</td>
<td>Maryland Ballroom A3</td>
</tr>
</tbody>
</table>
## Competitive Events Schedule

### High School

<table>
<thead>
<tr>
<th>Event</th>
<th>Date/Time</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Cybersecurity - HS</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Check-In, submit LEAP, Orientation Meeting</td>
<td>Saturday, June 29, 11:00 AM – 12:00 PM</td>
<td>Woodrow Wilson A</td>
</tr>
<tr>
<td>Semifinalists report for interview</td>
<td>Monday, July 1, 1:30 PM</td>
<td>Chesapeake 8</td>
</tr>
<tr>
<td>Semiinalist LEAP interviews</td>
<td>Monday, July 1, 2:00 PM – 3:30 PM</td>
<td>Chesapeake 8</td>
</tr>
<tr>
<td><strong>Debating Technological Issues - HS</strong></td>
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</tr>
<tr>
<td>Pre-Debate Meeting</td>
<td>Saturday, June 29, 11:00 AM – 12:00 PM</td>
<td>Woodrow Wilson B</td>
</tr>
<tr>
<td>Report for heat room assignment</td>
<td>Saturday, June 29, 1:00 PM – 5:00 PM</td>
<td>Annapolis 4</td>
</tr>
<tr>
<td>Semiinalist teams report</td>
<td>Sunday, June 30, 12:00 PM</td>
<td>Chesapeake 2</td>
</tr>
<tr>
<td>Semiinalist holding and preparation room</td>
<td>Sunday, June 30, 1:00 PM – 5:00 PM</td>
<td>Chesapeake 2</td>
</tr>
<tr>
<td>Semiinalist debate and LEAP interviews</td>
<td>Sunday, June 30, 1:00 PM – 5:00 PM</td>
<td>Chesapeake 5</td>
</tr>
<tr>
<td><strong>Digital Video Production - HS</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Check-in and submit LEAP</td>
<td>Friday, June 28, 7:00 PM – 9:00 PM</td>
<td>Chesapeake 4</td>
</tr>
<tr>
<td>Semiinalist LEAP interviews</td>
<td>Monday, July 1, 11:00 AM</td>
<td>Chesapeake 12</td>
</tr>
<tr>
<td>Semiinalist LEAP interviews</td>
<td>Monday, July 1, 11:30 AM – 1:00 PM</td>
<td>Chesapeake 12</td>
</tr>
<tr>
<td><strong>Dragster Design - HS</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Check-in and submit LEAP</td>
<td>Friday, June 28, 6:00 PM – 9:00 PM</td>
<td>Prince George's Exhibition Hall E</td>
</tr>
<tr>
<td>Time trials</td>
<td>Saturday, June 29, 1:30 PM – 5:30 PM</td>
<td>Prince George's Exhibition Hall E</td>
</tr>
<tr>
<td>Semiinalist interviews (Top 16 cars)</td>
<td>Sunday, June 30, 11:00 AM – 12:30 PM</td>
<td>Prince George's Exhibition Hall E</td>
</tr>
<tr>
<td>Semiinalist interviews</td>
<td>Sunday, June 30, 3:00 PM – 5:00 PM</td>
<td>Prince George's Exhibition Hall E</td>
</tr>
<tr>
<td>All entries MUST be picked up</td>
<td>Sunday, June 30, 5:00 PM – 6:00 PM</td>
<td>Prince George's Exhibition Hall E</td>
</tr>
</tbody>
</table>
## Engineering Design - HS

**Saturday, June 29, 4:00 PM – 6:00 PM**  
Check in, set up entry, and submit LEAP  
Prince George's Exhibition Hall D

**Monday, July 1, 11:00 AM**  
Semifinalists report for presentation/interview time  
Prince George's Exhibition Hall D

**Monday, July 1, 11:30 AM – 3:00 PM**  
Semifinalist presentation/interviews  
Prince George's Exhibition Hall D

**Monday, July 1, 4:30 PM – 5:00 PM**  
All displays MUST be picked up  
Prince George's Exhibition Hall D

## Essays on Technology - HS

**Sunday, June 30, 1:30 PM – 4:00 PM**  
Submit LEAP and writing  
Woodrow Wilson B

**Monday, July 1, 1:30 PM**  
Semifinalists sign up for LEAP interview time  
Chesapeake 10

**Monday, July 1, 2:00 PM – 3:30 PM**  
Semifinalist LEAP interviews  
Chesapeake 10

## Extemporaneous Speech - HS

**Friday, June 28, 8:00 PM – 8:30 PM**  
Submit LEAP and sign up for heat time  
Chesapeake 12

**Saturday, June 29, 11:00 AM – 3:00 PM**  
Prep room and heat room assignment  
Baltimore 2

**Sunday, June 30, 11:00 AM**  
Semifinalists report for speech and LEAP interview time  
Chesapeake 7

**Sunday, June 30, 11:30 AM – 2:30 PM**  
Semifinals - Preparation room  
Chesapeake 7

**Sunday, June 30, 11:30 AM – 2:30 PM**  
Semifinals - Presentation room/LEAP interview  
Chesapeake 10

## Fashion Design and Technology - HS

**Saturday, June 29, 7:00 AM – 8:00 AM**  
Submit LEAP, portfolio, and garments  
National Harbor 12

**Saturday, June 29, 5:00 PM – 5:30 PM**  
All portfolios and garments MUST be picked up  
National Harbor 12

**Monday, July 1, 12:30 PM**  
Semifinalist representative report for presentation/interview  
National Harbor 13

**Monday, July 1, 1:00 PM – 4:00 PM**  
Semifinalist presentation/LEAP interviews  
National Harbor 13
## Competitive Events Schedule

### High School

<table>
<thead>
<tr>
<th>Event</th>
<th>Date/Time</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Flight Endurance - HS</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Saturday, June 29, 11:00 AM – 11:30 AM</td>
<td>Submit LEAP; sign up for time,</td>
<td>Maryland Ballroom C</td>
</tr>
<tr>
<td></td>
<td>submit solution for impound,</td>
<td></td>
</tr>
<tr>
<td></td>
<td>and pilot’s meeting</td>
<td></td>
</tr>
<tr>
<td>Saturday, June 29, 12:00 PM – 6:00 PM</td>
<td>Trim &amp; Fly; Time trials</td>
<td>Maryland Ballroom C</td>
</tr>
<tr>
<td>Sunday, June 30, 3:00 PM – 4:00 PM</td>
<td>All event materials MUST be picked up</td>
<td>Maryland Ballroom C</td>
</tr>
<tr>
<td>Monday, July 1, 1:30 PM</td>
<td>Semifinalists sign up for LEAP interview time</td>
<td>Chesapeake 11</td>
</tr>
<tr>
<td>Monday, July 1, 2:00 PM – 3:30 PM</td>
<td>Semifinalist LEAP interviews</td>
<td>Chesapeake 11</td>
</tr>
<tr>
<td><strong>Forensic Science - HS</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Saturday, June 29, 1:00 PM – 2:30 PM</td>
<td>Written test and submit LEAP</td>
<td>Woodrow Wilson B</td>
</tr>
<tr>
<td>Monday, July 1, 12:00 PM</td>
<td>Semifinalists report for onsite challenge and LEAP interview time</td>
<td>National Harbor 14</td>
</tr>
<tr>
<td>Monday, July 1, 12:30 PM – 3:30 PM</td>
<td>Semifinals and LEAP interview</td>
<td>National Harbor 14</td>
</tr>
<tr>
<td><strong>Future Technology and Engineering Teacher - HS</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Friday, June 28, 7:00 PM – 9:00 PM</td>
<td>Check-in and submit LEAP</td>
<td>Chesapeake 4</td>
</tr>
<tr>
<td>Sunday, June 30, 11:30 AM</td>
<td>Semifinalists report for presentation time</td>
<td>Chesapeake L</td>
</tr>
<tr>
<td>Sunday, June 30, 12:00 PM – 4:00 PM</td>
<td>Semifinalist presentation/LEAP interviews</td>
<td>Chesapeake L</td>
</tr>
<tr>
<td>Monday, July 1, 4:30 PM – 5:00 PM</td>
<td>All entries MUST be picked up</td>
<td>Prince George’s Exhibition Hall D</td>
</tr>
<tr>
<td><strong>IT Fundamentals+ - HS</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Friday, June 28, 7:00 PM – 9:00 PM</td>
<td>Check in, submit LEAP, sign up for testing time</td>
<td>National Harbor 8</td>
</tr>
<tr>
<td>Saturday, June 29, 11:00 AM – 7:00 PM</td>
<td>Testing</td>
<td>National Harbor 8</td>
</tr>
<tr>
<td>Sunday, June 30, 11:00 AM – 7:00 PM</td>
<td>Testing</td>
<td>National Harbor 8</td>
</tr>
<tr>
<td>Monday, July 1, 11:00 AM</td>
<td>Semifinalists sign up for LEAP interview time</td>
<td>Chesapeake 8</td>
</tr>
<tr>
<td>Monday, July 1, 11:30 AM – 1:00 PM</td>
<td>Semifinalist LEAP interviews</td>
<td>Chesapeake 8</td>
</tr>
</tbody>
</table>
Music Production - HS

Friday, June 28, 7:00 PM – 9:00 PM
Check-in and submit LEAP

Sunday, June 30, 11:30 AM
Semifinalists report for interview time

Sunday, June 30, 12:00 PM – 4:00 PM
Semifinalist and LEAP interviews

On Demand Video - HS

Friday, June 28, 6:00 PM – 6:30 PM
Submit LEAP and team representative meeting to receive the topic

Sunday, June 30, 6:00 PM – 6:30 PM
Submit entry by 48 hour deadline

Monday, July 1, 2:30 PM
Semifinalists representative sign up for LEAP interview time

Monday, July 1, 3:00 PM – 4:30 PM
Semifinalist LEAP interviews

Photographic Technology - HS

Friday, June 28, 7:00 PM – 9:00 PM
Check-in and submit LEAP

Sunday, June 30, 12:30 PM – 6:00 PM
Semifinalists onsite problem and LEAP interviews

Prepared Presentation - HS

Friday, June 28, 8:00 PM – 8:30 PM
Submit LEAP and sign up for heat time

Saturday, June 29, 11:00 AM – 2:00 PM
Report for presentation topic

Sunday, June 30, 11:00 AM – 2:00 PM
Report for heat room assignment

Monday, July 1, 11:00 AM
Semifinalists report for speech and LEAP interview time

Monday, July 1, 11:30 AM – 2:30 PM
Semifinals and LEAP interviews
<table>
<thead>
<tr>
<th>Event Category</th>
<th>Event Details</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Promotional Design - HS</strong></td>
<td><strong>Friday, June 28, 7:00 PM – 9:00 PM</strong> Check-in, submit entry, and submit LEAP</td>
<td>National Harbor 6</td>
</tr>
<tr>
<td></td>
<td><strong>Sunday, June 30, 12:00 PM – 12:30 PM</strong> Semifinalist set up</td>
<td>Chesapeake 3</td>
</tr>
<tr>
<td></td>
<td><strong>Sunday, June 30, 12:30 PM – 3:30 PM</strong> Semifinalist performance</td>
<td>Chesapeake 3</td>
</tr>
<tr>
<td></td>
<td><strong>Sunday, June 30, 3:30 PM – 5:30 PM</strong> Semifinalist LEAP interviews</td>
<td>Chesapeake 3</td>
</tr>
<tr>
<td></td>
<td><strong>Monday, July 1, 4:30 PM – 5:00 PM</strong> All entries MUST be picked up</td>
<td>Prince George's Exhibition Hall D</td>
</tr>
<tr>
<td><strong>Scientific and Technical Visualization (SciViz) - HS</strong></td>
<td><strong>Friday, June 28, 7:00 PM – 9:00 PM</strong> Check-in, submit entry, and submit LEAP</td>
<td>Chesapeake 10</td>
</tr>
<tr>
<td></td>
<td><strong>Monday, July 1, 12:00 PM</strong> Semifinalists sign up for presentation/interview time</td>
<td>Chesapeake K</td>
</tr>
<tr>
<td></td>
<td><strong>Monday, July 1, 12:30 PM – 3:30 PM</strong> Semifinalist presentation/LEAP interviews</td>
<td>Chesapeake K</td>
</tr>
<tr>
<td><strong>Software Development - HS</strong></td>
<td><strong>Friday, June 28, 7:00 PM – 9:00 PM</strong> Check-in, submit entry, submit LEAP, and sign up for presentation time</td>
<td>National Harbor 6</td>
</tr>
<tr>
<td></td>
<td><strong>Sunday, June 30, 1:00 PM – 6:00 PM</strong> Presentations</td>
<td>Chesapeake 9</td>
</tr>
<tr>
<td></td>
<td><strong>Monday, July 1, 1:30 PM</strong> Semifinalists sign up for LEAP interview time</td>
<td>Chesapeake 12</td>
</tr>
<tr>
<td></td>
<td><strong>Monday, July 1, 2:00 PM – 3:30 PM</strong> Semifinalist LEAP interviews</td>
<td>Chesapeake 12</td>
</tr>
<tr>
<td><strong>Structural Design and Engineering - HS</strong></td>
<td><strong>Friday, June 28, 7:00 PM – 9:00 PM</strong> Check-in, submit entry, and submit LEAP</td>
<td>National Harbor 2</td>
</tr>
<tr>
<td></td>
<td><strong>Saturday, June 29, 2:00 PM – 5:30 PM</strong> Pre-built stress test</td>
<td>National Harbor 2</td>
</tr>
<tr>
<td></td>
<td><strong>Sunday, June 30, 1:00 PM – 5:00 PM</strong> Semifinalists design and construction and LEAP interviews</td>
<td>National Harbor 2</td>
</tr>
<tr>
<td></td>
<td><strong>Monday, July 1, 1:00 PM – 2:30 PM</strong> Semifinalists stress test</td>
<td>National Harbor 2</td>
</tr>
</tbody>
</table>
# Competitive Events Schedule

## High School

### System Control Technology - HS

<table>
<thead>
<tr>
<th>Event</th>
<th>Date</th>
<th>Time</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Set up and submit LEAP</td>
<td>Monday, July 1</td>
<td>11:00 AM – 12:00 PM</td>
<td>National Harbor 10</td>
</tr>
<tr>
<td>Problem analysis</td>
<td>Monday, July 1</td>
<td>12:00 PM – 12:15 PM</td>
<td>National Harbor 10</td>
</tr>
<tr>
<td>Problem solving</td>
<td>Monday, July 1</td>
<td>12:15 PM – 2:45 PM</td>
<td>National Harbor 10</td>
</tr>
<tr>
<td>Judging</td>
<td>Monday, July 1</td>
<td>2:45 PM – 5:15 PM</td>
<td>National Harbor 10</td>
</tr>
<tr>
<td>Mandatory equipment pick-up</td>
<td>Monday, July 1</td>
<td>5:30 PM – 6:00 PM</td>
<td>National Harbor 10</td>
</tr>
</tbody>
</table>

### Technology Bowl - HS

<table>
<thead>
<tr>
<th>Event</th>
<th>Date</th>
<th>Time</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Submit LEAP and written test</td>
<td>Saturday, June 29</td>
<td>5:00 PM – 6:30 PM</td>
<td>Prince George's Exhibition Hall C</td>
</tr>
<tr>
<td>Semifinalists sign up for LEAP interview time</td>
<td>Sunday, June 30</td>
<td>12:00 PM</td>
<td>National Harbor 15</td>
</tr>
<tr>
<td>Semifinalist LEAP interviews</td>
<td>Sunday, June 30</td>
<td>12:30 PM – 2:00 PM</td>
<td>National Harbor 15</td>
</tr>
<tr>
<td>Semifinals (Oral) holding room</td>
<td>Sunday, June 30</td>
<td>3:00 PM – 6:00 PM</td>
<td>National Harbor 14</td>
</tr>
<tr>
<td>Semifinals (Oral) competition room</td>
<td>Sunday, June 30</td>
<td>3:00 PM – 6:00 PM</td>
<td>National Harbor 12</td>
</tr>
</tbody>
</table>

### Technology Problem Solving - HS

<table>
<thead>
<tr>
<th>Event</th>
<th>Date</th>
<th>Time</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Submit LEAP and Design/Solution</td>
<td>Monday, July 1</td>
<td>11:00 AM</td>
<td>Prince George’s Exhibition Hall C</td>
</tr>
<tr>
<td>Semifinalists sign up for LEAP interview time</td>
<td>Monday, July 1</td>
<td>11:30 AM – 1:00 PM</td>
<td>Chesapeake 7</td>
</tr>
</tbody>
</table>

### Transportation Modeling - HS

<table>
<thead>
<tr>
<th>Event</th>
<th>Date</th>
<th>Time</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Check-in, submit entry, and submit LEAP</td>
<td>Friday, June 28</td>
<td>6:00 PM – 9:00 PM</td>
<td>Prince George's Exhibition Hall E</td>
</tr>
<tr>
<td>Semifinalists sign up for LEAP interviews</td>
<td>Sunday, June 30</td>
<td>11:00 AM</td>
<td>Prince George's Exhibition Hall E</td>
</tr>
<tr>
<td>Semifinalist LEAP interviews</td>
<td>Sunday, June 30</td>
<td>11:30 AM – 1:00 PM</td>
<td>Prince George's Exhibition Hall E</td>
</tr>
<tr>
<td>All entries MUST be picked up</td>
<td>Sunday, June 30</td>
<td>5:00 PM – 6:00 PM</td>
<td>Prince George's Exhibition Hall E</td>
</tr>
</tbody>
</table>
## Competitive Events Schedule

### High School

<table>
<thead>
<tr>
<th>Event</th>
<th>Date</th>
<th>Time</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>VEX Robotics Competition - HS</strong></td>
<td>v2019-06-29</td>
<td>12:00 PM – 7:00 PM</td>
<td>Prince George’s Exhibition Hall A</td>
</tr>
<tr>
<td>VRC Team Check-in and Inspection, Skills &amp; Practice</td>
<td>Sunday, June 30, 11:30 AM – 7:00 PM</td>
<td>Prince George’s Exhibition Hall A</td>
<td></td>
</tr>
<tr>
<td>VRC Skills/Practice Runs</td>
<td>Monday, July 1, 11:30 AM – 3:00 PM</td>
<td>Prince George’s Exhibition Hall A</td>
<td></td>
</tr>
<tr>
<td>VRC Single Elimination</td>
<td>Monday, July 1, 3:15 PM – 4:30 PM</td>
<td>Prince George’s Exhibition Hall A</td>
<td></td>
</tr>
<tr>
<td><strong>Video Game Design - HS</strong></td>
<td>v2019-06-30</td>
<td>12:30 PM</td>
<td>Chesapeake 2</td>
</tr>
<tr>
<td>Semifinalists report for interview</td>
<td>Monday, July 1, 1:00 PM – 4:00 PM</td>
<td>Chesapeake 2</td>
<td></td>
</tr>
<tr>
<td><strong>Webmaster - HS</strong></td>
<td>v2019-06-30</td>
<td>12:30 PM – 1:00 PM</td>
<td>Chesapeake 3</td>
</tr>
<tr>
<td>Semifinalist representative sign up for LEAP interview time</td>
<td>Monday, July 1, 1:00 PM – 4:00 PM</td>
<td>Chesapeake 3</td>
<td></td>
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</tbody>
</table>

**NOTE:** All teams get a MAX of 3 Official Skills Runs of Programming and 3 Official Skills Runs of Driver. This is for the entire event.
# Competitive Events Schedule

## Middle School

### Biotechnology - MS

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Saturday, June 29</td>
<td>3:00 PM – 5:00 PM</td>
<td>Set up displays and submit LEAP</td>
<td>Prince George’s Exhibition Hall D</td>
</tr>
<tr>
<td>Monday, July 1</td>
<td>11:00 AM</td>
<td>Semifinalists report for presentation/interview time</td>
<td>Prince George’s Exhibition Hall D</td>
</tr>
<tr>
<td>Monday, July 1</td>
<td>11:30 AM – 2:30 PM</td>
<td>Semifinalist presentation/interviews</td>
<td>Prince George’s Exhibition Hall D</td>
</tr>
<tr>
<td>Monday, July 1</td>
<td>4:30 PM – 5:00 PM</td>
<td>All displays MUST be picked up</td>
<td>Prince George’s Exhibition Hall D</td>
</tr>
</tbody>
</table>

### CAD Foundations - MS

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sunday, June 30</td>
<td>11:30 AM – 12:00 PM</td>
<td>Orientation/Set up and submit LEAP</td>
<td>Chesapeake 4</td>
</tr>
<tr>
<td>Sunday, June 30</td>
<td>12:00 PM – 2:00 PM</td>
<td>Solution Development</td>
<td>Chesapeake 4</td>
</tr>
<tr>
<td>Sunday, June 30</td>
<td>2:00 PM – 3:00 PM</td>
<td>Evaluation</td>
<td>Chesapeake 4</td>
</tr>
</tbody>
</table>

### Career Prep - MS

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Friday, June 28</td>
<td>7:00 PM – 9:00 PM</td>
<td>Submit materials and submit LEAP</td>
<td>Chesapeake L</td>
</tr>
<tr>
<td>Monday, July 1</td>
<td>12:30 PM</td>
<td>Semifinalists report for interview</td>
<td>National Harbor 1</td>
</tr>
<tr>
<td>Monday, July 1</td>
<td>1:00 PM – 3:00 PM</td>
<td>Semifinalist interviews</td>
<td>National Harbor 1</td>
</tr>
</tbody>
</table>

### Challenging Technology Issues - MS

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Friday, June 28</td>
<td>8:00 PM – 8:30 PM</td>
<td>Sign up for heat time and submit LEAP</td>
<td>National Harbor 1</td>
</tr>
<tr>
<td>Sunday, June 30</td>
<td>11:00 AM – 2:00 PM</td>
<td>Prep room and heat room assignment and heats</td>
<td>Annapolis 4</td>
</tr>
<tr>
<td>Monday, July 1</td>
<td>12:00 PM</td>
<td>Semifinalists report for presentation time</td>
<td>Chesapeake L</td>
</tr>
<tr>
<td>Monday, July 1</td>
<td>12:30 PM – 3:00 PM</td>
<td>Semifinals preparation room</td>
<td>Chesapeake L</td>
</tr>
<tr>
<td>Monday, July 1</td>
<td>12:30 PM – 3:00 PM</td>
<td>Semifinals presentation room</td>
<td>Chesapeake L</td>
</tr>
</tbody>
</table>
### Competitive Events Schedule

#### Middle School

<table>
<thead>
<tr>
<th>Event Type</th>
<th>Date/Time</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Chapter Team - MS</strong></td>
<td><strong>Saturday, June 29, 1:00 PM – 2:30 PM</strong></td>
<td>Prince George’s Exhibition Hall C</td>
</tr>
<tr>
<td></td>
<td>Written test and submit LEAP</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Sunday, June 30, 5:00 PM</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Seminifinalist team representative report for</td>
<td>National Harbor 6</td>
</tr>
<tr>
<td></td>
<td>presentation time</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Monday, July 1, 12:00 PM – 4:00 PM</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Semifinals presentation room</td>
<td>National Harbor 6</td>
</tr>
</tbody>
</table>

| **Children’s Stories - MS** | **Friday, June 28, 7:00 PM – 9:00 PM**         | Chesapeake L                                  |
|                            | Submit materials and submit LEAP              |                                               |
|                            | **Sunday, June 30, 11:30 AM**                | National Harbor 13                             |
|                            | Seminifinalists report for presentation time  |                                               |
|                            | **Sunday, June 30, 12:00 PM – 3:00 PM**      | National Harbor 13                             |
|                            | Seminifinalist presentations                  |                                               |
|                            | **Monday, July 1, 4:30 PM – 5:00 PM**         | Prince George’s Exhibition Hall D             |
|                            | All entries MUST be picked up                 |                                               |

| **Coding - MS**             | **Saturday, June 29, 5:00 PM – 6:30 PM**       | Woodrow Wilson B                              |
|                            | Written test and submit LEAP                  |                                               |
|                            | **Monday, July 1, 11:00 AM – 4:00 PM**        | Chesapeake 4                                   |
|                            | Seminifinalists onsite problem                |                                               |

<table>
<thead>
<tr>
<th><strong>Community Service Video - MS</strong></th>
<th><strong>Friday, June 28, 7:00 PM – 9:00 PM</strong></th>
<th>Chesapeake I</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Check-in, submit entry, and submit LEAP</td>
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</table>

<table>
<thead>
<tr>
<th><strong>Construction Challenge - MS</strong></th>
<th><strong>Saturday, June 29, 3:00 PM – 5:00 PM</strong></th>
<th>Prince George’s Exhibition Hall D</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Set up displays and submit LEAP</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Monday, July 1, 11:00 AM</strong></td>
<td>Prince George’s Exhibition Hall D</td>
</tr>
<tr>
<td></td>
<td>Seminifinalists report for</td>
<td></td>
</tr>
<tr>
<td></td>
<td>presentation/interview time</td>
<td>Prince George’s Exhibition Hall D</td>
</tr>
<tr>
<td></td>
<td><strong>Monday, July 1, 11:30 AM – 2:30 PM</strong></td>
<td>Prince George’s Exhibition Hall D</td>
</tr>
<tr>
<td></td>
<td>Seminifinalist presentation/interviews</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Monday, July 1, 4:30 PM – 5:00 PM</strong></td>
<td>Prince George’s Exhibition Hall D</td>
</tr>
<tr>
<td></td>
<td>All displays MUST be picked up</td>
<td></td>
</tr>
</tbody>
</table>
## Competitive Events Schedule
### Middle School

<table>
<thead>
<tr>
<th>Event</th>
<th>Date</th>
<th>Time</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Digital Photography - MS</strong></td>
<td>Friday, June 28</td>
<td>7:00 PM – 9:00 PM</td>
<td>Chesapeake I</td>
</tr>
<tr>
<td>Check-in, submit entry, and</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>submit LEAP</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Sunday, June 30</strong></td>
<td>12:00 PM – 12:30 PM</td>
<td></td>
<td>National Harbor 9</td>
</tr>
<tr>
<td>Semifinalists set up</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Sunday, June 30</strong></td>
<td>12:30 PM – 3:30 PM</td>
<td></td>
<td>National Harbor 9</td>
</tr>
<tr>
<td>Semifinalist performance</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Sunday, June 30</strong></td>
<td>3:30 PM – 5:30 PM</td>
<td></td>
<td>National Harbor 9</td>
</tr>
<tr>
<td>Semifinalist interviews</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| **Dragster - MS**            | Friday, June 28       | 6:00 PM – 9:00 PM  | Prince George's Exhibition Hall E  |
| Check-in, submit entry       |                       |                    |                                    |
| and submit LEAP             |                       |                    |                                    |
| **Saturday, June 29**       | 1:30 PM – 5:30 PM     |                    | Prince George's Exhibition Hall E  |
| Time trials                 |                       |                    |                                    |
| **Sunday, June 30**         | 11:00 AM – 12:30 PM   |                    | Prince George's Exhibition Hall E  |
| Semifinalists interviews (Top 16 cars) |             |                    |                                    |
| **Sunday, June 30**         | 1:00 PM – 3:00 PM     |                    | Prince George's Exhibition Hall E  |
| Semifinals                  |                       |                    |                                    |
| **Sunday, June 30**         | 5:00 PM – 6:00 PM     |                    | Prince George's Exhibition Hall E  |
| All entries MUST be picked up|                       |                    |                                    |

| **Electrical Applications - MS** | Sunday, June 30 | 11:30 AM – 1:00 PM | Woodrow Wilson B                  |
| Written test and submit LEAP   |                   |                    |                                    |
| **Monday, July 1**             | 1:00 PM – 5:00 PM  |                    | National Harbor 8                  |
| Semifinalist onsite problem    |                   |                    |                                    |

| **Essays on Technology - MS**  | Sunday, June 30    | 1:30 PM – 3:30 PM  | Woodrow Wilson C                  |
| Preliminaries and submit LEAP |                   |                    |                                    |
| **Monday, July 1**             | 12:30 PM – 2:30 PM |                    | National Harbor 9                  |
| Semifinals                    |                   |                    |                                    |

| **Flight - MS**               | Sunday, June 30    | 11:00 AM – 2:00 PM | Maryland Ballroom C                |
| Construction and submit LEAP |                   |                    |                                    |
| **Sunday, June 30**           | 11:00 AM – 6:00 PM |                    | Maryland Ballroom C                |
| Trim and official time trial  |                   |                    |                                    |
| **Sunday, June 30**           | 8:30 PM – 9:00 PM  |                    | Maryland Ballroom C                |
| All entries and materials MUST be picked up |             |                    |                                    |
## Competitive Events Schedule
### Middle School

### Forensic Technology - MS
- **Saturday, June 29, 3:00 PM – 4:30 PM**
  Written test and submit LEAP
  Woodrow Wilson B
- **Monday, July 1, 12:00 PM**
  Semifinalists report for onsite time
  Magnolia 3
- **Monday, July 1, 12:30 PM – 3:30 PM**
  Semifinals
  Magnolia 3

### Inventions and Innovations - MS
- **Friday, June 28, 7:00 PM – 9:00 PM**
  Check-in, submit entries and submit LEAP
  Prince George's Exhibition Hall D
- **Saturday, June 29, 5:30 PM – 6:00 PM**
  All entries MUST be picked up
  Prince George's Exhibition Hall D
- **Sunday, June 30, 12:30 PM**
  Semifinalists report for presentation time
  Chesapeake 6
- **Sunday, June 30, 1:00 PM – 4:00 PM**
  Semifinalist presentations
  Chesapeake 6

### Junior Solar Sprint - MS
- **Saturday, June 29, 11:00 AM – 12:00 PM**
  AEOP Panel
  Chesapeake 5
- **Saturday, June 29, 1:00 PM – 2:00 PM**
  Check-in, submit entries and submit LEAP
  Prince George's Exhibition Hall E
- **Sunday, June 30, 11:00 AM – 3:00 PM**
  Time Trials
  Orchard Terrace
  Inclement weather
  Prince George's Exhibition Hall E
- **Sunday, June 30, 12:30 PM – 3:30 PM**
  Focus Groups
  Prince George's Exhibition Hall E
  Required for JSS participants. Requested for JSS Advisors.
- **Monday, July 1, 11:00 AM**
  Semifinalists report
  Prince George's Exhibition Hall E
- **Monday, July 1, 11:30 AM – 2:00 PM**
  Semifinals
  Orchard Terrace
  Inclement weather
  Prince George's Exhibition Hall E
- **Monday, July 1, 4:00 PM – 4:30 PM**
  All entries MUST be picked up
  Prince George's Exhibition Hall E
**Leadership Strategies - MS**

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Friday, June 28</td>
<td>8:00 PM – 8:30 PM</td>
<td>National Harbor 9</td>
</tr>
<tr>
<td>Sign up for heat time</td>
<td></td>
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<tr>
<td>and submit LEAP</td>
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<tr>
<td>Saturday, June 29</td>
<td>12:00 PM – 4:00 PM</td>
<td>Maryland Ballroom A1</td>
</tr>
<tr>
<td>Prep room and heat</td>
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<tr>
<td>room assignment and</td>
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<td>heats</td>
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<tr>
<td>Monday, July 1</td>
<td>12:00 PM</td>
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<tr>
<td>Semifinalists report</td>
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<td>Azalea 1</td>
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<tr>
<td>for presentation time</td>
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<tr>
<td>Monday, July 1</td>
<td>12:30 PM – 3:00 PM</td>
<td>Azalea 1</td>
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<tr>
<td>Semifinals preparation</td>
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<tr>
<td>room</td>
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<tr>
<td>Monday, July 1</td>
<td>12:30 PM – 3:00 PM</td>
<td>Azalea 2</td>
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**Mass Production - MS**

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<tbody>
<tr>
<td>Saturday, June 29</td>
<td>3:00 PM – 5:00 PM</td>
<td>Prince George’s Exhibition Hall D</td>
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<tr>
<td>Submit entry and LEAP</td>
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<tr>
<td>Monday, July 1</td>
<td>11:00 AM</td>
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<tr>
<td>Semifinalists report</td>
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<tr>
<td>for presentation/</td>
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<tr>
<td>interview time</td>
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<tr>
<td>Monday, July 1</td>
<td>11:30 AM – 2:30 PM</td>
<td>Prince George’s Exhibition Hall D</td>
</tr>
<tr>
<td>Semifinalist</td>
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<tr>
<td>presentation/interviews</td>
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<tr>
<td>Monday, July 1</td>
<td>4:30 PM – 5:00 PM</td>
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<tr>
<td>All displays MUST be</td>
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<tr>
<td>picked up</td>
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**Medical Technology - MS**

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<thead>
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<tr>
<td>Set up displays and</td>
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<tr>
<td>submit LEAP</td>
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<tr>
<td>Monday, July 1</td>
<td>11:00 AM</td>
<td>Prince George’s Exhibition Hall D</td>
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<tr>
<td>Semifinalists report</td>
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<tr>
<td>for presentation time</td>
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<tr>
<td>Monday, July 1</td>
<td>11:30 AM – 2:30 PM</td>
<td>Prince George’s Exhibition Hall D</td>
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<tr>
<td>Semifinalist</td>
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<td>presentation/interviews</td>
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<tr>
<td>Monday, July 1</td>
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<td>Prince George’s Exhibition Hall D</td>
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<tr>
<td>All displays MUST be</td>
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</table>
## Competitive Events Schedule

### Middle School

<table>
<thead>
<tr>
<th>Event Name</th>
<th>Date/Time</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Mechanical Engineering - MS</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Check-in, submit entry, and submit LEAP</td>
<td>Friday, June 28, 7:00 PM – 9:00 PM</td>
<td>Woodrow Wilson D</td>
</tr>
<tr>
<td>Semifinalists report for presentation time</td>
<td>Sunday, June 30, 11:30 AM</td>
<td>Woodrow Wilson D</td>
</tr>
<tr>
<td>Semifinalist presentations</td>
<td>Sunday, June 30, 12:00 PM – 3:00 PM</td>
<td>Woodrow Wilson D</td>
</tr>
<tr>
<td>All entries MUST be picked up</td>
<td>Sunday, June 30, 5:00 PM – 5:30 PM</td>
<td>Woodrow Wilson D</td>
</tr>
<tr>
<td><strong>Microcontroller Design - MS</strong></td>
<td></td>
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</tr>
<tr>
<td>Check-in, sign up for presentation time, submit documentation, and submit LEAP</td>
<td>Friday, June 28, 7:00 PM – 9:00 PM</td>
<td>Chesapeake 7</td>
</tr>
<tr>
<td>Presentations</td>
<td>Sunday, June 30, 12:00 PM – 5:00 PM</td>
<td>Chesapeake J</td>
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<tr>
<td><strong>Off the Grid - MS</strong></td>
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<td></td>
</tr>
<tr>
<td>Set up displays and submit LEAP</td>
<td>Saturday, June 29, 3:00 PM – 5:00 PM</td>
<td>Prince George's Exhibition Hall D</td>
</tr>
<tr>
<td>Semifinalists report for presentation/interview time</td>
<td>Monday, July 1, 11:00 AM</td>
<td>Prince George's Exhibition Hall D</td>
</tr>
<tr>
<td>Semifinalist presentation/interviews</td>
<td>Monday, July 1, 11:30 AM – 2:30 PM</td>
<td>Prince George's Exhibition Hall D</td>
</tr>
<tr>
<td>All displays MUST be picked up</td>
<td>Monday, July 1, 4:30 PM – 5:00 PM</td>
<td>Prince George's Exhibition Hall D</td>
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<tr>
<td><strong>Prepared Speech - MS</strong></td>
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<tr>
<td>Sign up for heat time and submit LEAP</td>
<td>Friday, June 28, 8:00 PM – 8:30 PM</td>
<td>National Harbor 14</td>
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<tr>
<td>Report for heat room assignment</td>
<td>Sunday, June 30, 3:00 PM – 6:00 PM</td>
<td>Baltimore 1</td>
</tr>
<tr>
<td>Semifinalists report for presentation time</td>
<td>Monday, July 1, 12:00 PM</td>
<td>Azalea 3</td>
</tr>
<tr>
<td>Semifinals</td>
<td>Monday, July 1, 12:30 PM – 3:00 PM</td>
<td>Azalea 3</td>
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<tr>
<td><strong>Problem Solving - MS</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Design solution and submit LEAP</td>
<td>Sunday, June 30, 3:00 PM – 6:30 PM</td>
<td>Prince George's Exhibition Hall C</td>
</tr>
</tbody>
</table>
# Competitive Events Schedule
## Middle School

<table>
<thead>
<tr>
<th>Event Type</th>
<th>Date</th>
<th>Time</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Promotional Marketing - MS</strong></td>
<td>Friday, June 28</td>
<td>7:00 PM – 9:00 PM</td>
<td>Chesapeake 7</td>
</tr>
<tr>
<td>Check-in, submit entry, and submit LEAP</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Sunday, June 30</strong></td>
<td>12:30 PM – 1:00 PM</td>
<td>Semiﬁnalists set up</td>
<td>Azelea 1</td>
</tr>
<tr>
<td><strong>Sunday, June 30</strong></td>
<td>1:00 PM – 4:00 PM</td>
<td>Semiﬁnals problem</td>
<td>Azelea 1</td>
</tr>
<tr>
<td><strong>STEM Animation - MS</strong></td>
<td>Friday, June 28</td>
<td>7:00 PM – 9:00 PM</td>
<td>Chesapeake 10</td>
</tr>
<tr>
<td>Check-in, submit entry, and submit LEAP</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Sunday, June 30</strong></td>
<td>12:30 PM</td>
<td>Semiﬁnalists report for presentation time</td>
<td>Chesapeake G</td>
</tr>
<tr>
<td><strong>Sunday, June 30</strong></td>
<td>1:00 PM – 3:30 PM</td>
<td>Semiﬁnalist presentations</td>
<td>Chesapeake G</td>
</tr>
<tr>
<td><strong>Monday, July 1</strong></td>
<td>4:30 PM – 5:00 PM</td>
<td>All entries MUST be picked up</td>
<td>Prince George’s Exhibition Hall D</td>
</tr>
<tr>
<td><strong>Structural Engineering - MS</strong></td>
<td>Friday, June 28</td>
<td>7:00 PM – 9:00 PM</td>
<td>National Harbor 3</td>
</tr>
<tr>
<td>Pre-built structures, documentation, and submit LEAP</td>
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<tr>
<td><strong>Saturday, June 29</strong></td>
<td>2:00 PM – 5:30 PM</td>
<td>Pre-built stress test</td>
<td>National Harbor 3</td>
</tr>
<tr>
<td><strong>Sunday, June 30</strong></td>
<td>1:00 PM – 5:00 PM</td>
<td>Semiﬁnalists design and build</td>
<td>National Harbor 3</td>
</tr>
<tr>
<td><strong>Monday, July 1</strong></td>
<td>1:00 PM – 2:30 PM</td>
<td>Semiﬁnalists stress test</td>
<td>National Harbor 3</td>
</tr>
<tr>
<td><strong>System Control Technology - MS</strong></td>
<td>Monday, July 1 11:00 AM – 12:00 PM</td>
<td>Set up and submit LEAP</td>
<td>National Harbor 11</td>
</tr>
<tr>
<td><strong>Monday, July 1</strong></td>
<td>12:00 PM – 12:15 PM</td>
<td>Problem analysis</td>
<td>National Harbor 11</td>
</tr>
<tr>
<td><strong>Monday, July 1</strong></td>
<td>12:15 PM – 2:45 PM</td>
<td>Problem solving</td>
<td>National Harbor 11</td>
</tr>
<tr>
<td><strong>Monday, July 1</strong></td>
<td>2:45 PM – 5:15 PM</td>
<td>Judging and LEAP interview</td>
<td>National Harbor 11</td>
</tr>
<tr>
<td><strong>Monday, July 1</strong></td>
<td>5:30 PM – 6:00 PM</td>
<td>Mandatory equipment pick-up</td>
<td>National Harbor 11</td>
</tr>
</tbody>
</table>
## Competitive Events Schedule
### Middle School

### Tech Bowl - MS
- **Saturday, June 29, 11:00 AM – 12:30 PM**
  - Written test and submit LEAP
  - Prince George's Exhibition Hall C
- **Sunday, June 30, 11:30 AM – 2:30 PM**
  - Semifinals holding room
  - National Harbor 14
- **Sunday, June 30, 11:30 AM – 2:30 PM**
  - Semifinals competition room
  - National Harbor 12

### Technical Design - MS
- **Saturday, June 29, 6:00 PM – 6:30 PM**
  - Pick up problem and submit LEAP
  - Cherry Blossom Ballroom
- **Sunday, June 30, 6:00 PM – 6:30 PM**
  - Submit solution
  - Magnolia 3
- **Monday, July 1, 4:30 PM – 5:00 PM**
  - All entries MUST be picked up
  - Prince George's Exhibition Hall D

### VEX Robotics Competition - MS
- **Saturday, June 29, 12:00 PM – 7:00 PM**
  - IQ Team Check-in, Inspection, Practice and Skills
  - Prince George's Exhibition Hall A
- **Sunday, June 30, 11:30 AM – 2:30 PM**
  - IQ Inspection, Practice and Skills
  - Prince George's Exhibition Hall A
- **Sunday, June 30, 3:00 PM – 3:30 PM**
  - IQ Teamwork Finals Top 10 Teams
  - Prince George's Exhibition Hall A
  - Awards immediately following (except Excellence)

  **NOTE:** All teams get a MAX of 3 Official Skills Runs of Programming and 3 Official Skills Runs of Driver. This is for the entire event.

### Video Game Design - MS
- **Sunday, June 30, 1:00 PM – 1:30 PM**
  - Semifinalist representative report for interview time
  - Chesapeake H
- **Sunday, June 30, 1:30 PM – 4:00 PM**
  - Semifinalist interviews
  - Chesapeake H

### Website Design - MS
- **Sunday, June 30, 11:00 AM – 11:30 AM**
  - Semifinalists team representative report for interview time
  - Chesapeake I
- **Sunday, June 30, 11:30 AM – 2:00 PM**
  - Semifinalist interviews
  - Chesapeake I
# State Delegation Photo Schedule

<table>
<thead>
<tr>
<th>Saturday, June 29</th>
<th>Sunday, June 30</th>
</tr>
</thead>
<tbody>
<tr>
<td>12:00 PM Arkansas</td>
<td>12:00 PM New York</td>
</tr>
<tr>
<td>12:15 PM California</td>
<td>12:15 PM Maryland</td>
</tr>
<tr>
<td>12:30 PM Tennessee</td>
<td>12:30 PM Connecticut</td>
</tr>
<tr>
<td>12:45 PM Georgia</td>
<td>12:45 PM Florida</td>
</tr>
<tr>
<td>1:00 PM Washington</td>
<td>1:00 PM Iowa</td>
</tr>
<tr>
<td>1:15 PM Colorado</td>
<td>1:15 PM Delaware</td>
</tr>
<tr>
<td>1:30 PM Kansas</td>
<td>1:30 PM South Carolina</td>
</tr>
<tr>
<td>1:45 PM New Jersey</td>
<td>1:45 PM Missouri</td>
</tr>
<tr>
<td>2:00 PM Kentucky</td>
<td>2:00 PM Mississippi</td>
</tr>
<tr>
<td>2:15 PM North Dakota</td>
<td>2:15 PM New Mexico</td>
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<tr>
<td>2:30 PM Pennsylvania</td>
<td>2:30 PM Idaho</td>
</tr>
<tr>
<td>2:45 PM New Hampshire</td>
<td>2:45 PM Utah</td>
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<tr>
<td>3:00 PM Oklahoma</td>
<td>3:00 PM West Virginia</td>
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<tr>
<td>3:15 PM Alabama</td>
<td>3:15 PM Virginia</td>
</tr>
<tr>
<td>3:30 PM Texas</td>
<td>3:30 PM North Carolina</td>
</tr>
<tr>
<td>3:45 PM District of Columbia</td>
<td>3:45 PM Indiana</td>
</tr>
<tr>
<td>4:00 PM Germany</td>
<td>4:00 PM Ohio</td>
</tr>
<tr>
<td>4:15 PM Turkey</td>
<td>4:15 PM Oregon</td>
</tr>
</tbody>
</table>

State delegations may use their own cameras to take group photographs in the Lower Atrium of the Gaylord National during their designated day and time (listed above).

## Share Your Photos!

Please share your pictures and video clips of conference activities to use during general sessions. Submit them on a USB drive at the TSA conference information desk at Potomac Registration Desk A. Please note that USB drives will not be returned.

You can also tweet pictures throughout the conference @NationalTSA using #OneTSA and #ModelTheWay.
Mandatory state delegation meetings must be held the evening of Friday, June 28, to review the conference agenda and plans for the state delegation. Additional state delegation meetings may be held June 29, June 30, and July 1. Please refer to the schedule for your state delegation meeting dates and times.

All state delegation meetings must end by 9:30 pm.

<table>
<thead>
<tr>
<th>State</th>
<th>Time</th>
<th>Room Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Delaware</td>
<td>6:00 PM – 7:30 PM</td>
<td>Maryland Ballroom A1</td>
</tr>
<tr>
<td>Florida</td>
<td>6:00 PM – 7:30 PM</td>
<td>National Harbor 12</td>
</tr>
<tr>
<td>Georgia</td>
<td>6:00 PM – 7:30 PM</td>
<td>Maryland Ballroom A</td>
</tr>
<tr>
<td>Iowa</td>
<td>6:00 PM – 7:30 PM</td>
<td>Chesapeake 6</td>
</tr>
<tr>
<td>Idaho</td>
<td>6:00 PM – 9:00 PM</td>
<td>Chesapeake 8</td>
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<tr>
<td>Indiana</td>
<td>6:00 PM – 7:30 PM</td>
<td>Chesapeake 9</td>
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<td>Kansas</td>
<td>6:00 PM – 7:30 PM</td>
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<td>New Hampshire</td>
<td>6:00 PM – 7:30 PM</td>
<td>Chesapeake 5</td>
</tr>
<tr>
<td>New Jersey</td>
<td>6:00 PM – 7:30 PM</td>
<td>Woodrow Wilson B</td>
</tr>
<tr>
<td>New Mexico</td>
<td>6:00 PM – 7:30 PM</td>
<td>National Harbor 7</td>
</tr>
<tr>
<td>Ohio</td>
<td>6:00 PM – 7:30 PM</td>
<td>Chesapeake 2</td>
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<tr>
<td>Oklahoma</td>
<td>6:00 PM – 7:30 PM</td>
<td>Baltimore 3</td>
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<tr>
<td>South Carolina</td>
<td>6:00 PM – 7:30 PM</td>
<td>Annapolis 1</td>
</tr>
<tr>
<td>Texas</td>
<td>6:00 PM – 7:30 PM</td>
<td>Woodrow Wilson A</td>
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<tr>
<td>West Virginia</td>
<td>6:00 PM – 7:30 PM</td>
<td>National Harbor 11</td>
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<td>Alabama</td>
<td>8:00 PM – 9:30 PM</td>
<td>Chesapeake 6</td>
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<tr>
<td>Arkansas</td>
<td>8:00 PM – 9:30 PM</td>
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<td>California</td>
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<td>National Harbor 5</td>
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<tr>
<td>Colorado</td>
<td>8:00 PM – 9:30 PM</td>
<td>National Harbor 12</td>
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<tr>
<td>Connecticut</td>
<td>8:00 PM – 9:30 PM</td>
<td>Chesapeake 9</td>
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<td>Kentucky</td>
<td>8:00 PM – 9:30 PM</td>
<td>National Harbor 7</td>
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<td>Maryland</td>
<td>8:00 PM – 9:30 PM</td>
<td>Chesapeake 5</td>
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<tr>
<td>Missouri</td>
<td>8:00 PM – 9:30 PM</td>
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<td>Mississippi</td>
<td>8:00 PM – 9:30 PM</td>
<td>Annapolis 1</td>
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<tr>
<td>North Carolina</td>
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<tr>
<td>North Dakota</td>
<td>8:00 PM – 9:30 PM</td>
<td>Chesapeake 2</td>
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<tr>
<td>Pennsylvania</td>
<td>8:00 PM – 9:30 PM</td>
<td>Maryland Ballroom A</td>
</tr>
<tr>
<td>Tennessee</td>
<td>8:00 PM – 9:30 PM</td>
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<tr>
<td>West Virginia</td>
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## TSA Chartered States

There are 48 chartered TSA delegations in the U.S.

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<th>State</th>
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<th>Corporate Member</th>
<th>State Advisor</th>
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<td>Candice Mott</td>
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<td>Justin Touchstone</td>
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<td>Steven Parrott</td>
<td>Chris Merrill</td>
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<td>Geoff Bernstein</td>
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<td>NC</td>
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<td>Jerianne Taylor</td>
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<td>1997</td>
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<td>NE</td>
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<td>Erv Connary</td>
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<td>NJ</td>
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<td>Christine Phipps</td>
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<td>NY</td>
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<td>Phil Dettelis</td>
<td>Evie Weinstein</td>
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<td>OH</td>
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<td>Lee Corder</td>
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<td>OK</td>
<td>1978</td>
<td>Dawn Frank</td>
<td>Tami Redus</td>
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<td>OR</td>
<td>1997</td>
<td>Denise Brock</td>
<td>Christopher Tuason</td>
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<td>PA</td>
<td>1978</td>
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<td>Dale Moll</td>
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<td>RI</td>
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<td>TX</td>
<td>1978</td>
<td>Bud Worley</td>
<td>Pam Cook</td>
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<td>UT</td>
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<td>Doug Livingston</td>
<td>Mike Smoot</td>
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<td>B.J. Scott</td>
<td>B.J. Scott</td>
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<td>Dan Tedor</td>
<td>Jennifer Smith</td>
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<td>WV</td>
<td>1978</td>
<td>James Coble</td>
<td>Nicole Shipman</td>
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<tr>
<td>WY</td>
<td>1982</td>
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</table>
The TSA VEX Robotics Competition engages middle and high school students in an exciting head-to-head robotics contest that engages students and enhances skills in STEM areas. At the national conference, middle school registered teams will compete in the VEX IQ challenge, “Next Level,” and high school registered teams will compete in the VEX VRC competition, “Turning Point.”

### VEX IQ (Middle School)

**Saturday, June 29, 12:00 PM – 7:00 PM**
Team Check-in, Inspection, Skills & Practice  Prince George's Exhibition Hall A

**Sunday, June 30, 11:30 AM – 2:30 PM**
Inspection, Skills & Practice  Prince George's Exhibition Hall A

**Sunday, June 30, 3:00 PM – 3:30 PM**
Teamwork Finals, Top 10 IQ Teams  Prince George's Exhibition Hall A

*Highest Programming and Driver Score combined will form 5 alliances (1&2, 3&4, 5&6, 7&8, 9&10)*

**IQ Finals – The Top 5 alliances (10 total teams), gets 1 run***

*Highest Programming and Driver Score combined will form 5 alliances (Order is 10&9, 8&7, 6&5, 4&3, 2&1)*

Award Distribution (except The Excellence Award which is given on stage)

### VEX VRC (High School)

**Saturday, June 29, 12:00 PM – 7:00 PM**
Team Check-in, Inspection, Skills & Practice  Prince George's Exhibition Hall A

**Sunday, June 30, 11:30 AM – 7:00 PM**
Inspection, Skills & Practice  Prince George's Exhibition Hall A

**Monday, July 1, 11:30 AM – 3:00 PM**
Skills & Practice Runs  Prince George's Exhibition Hall A

STOP TIME IS 3:00 PM

**Monday, July 1, 3:15 PM – 4:30 PM**
VRC Finals, Single Elimination  Prince George's Exhibition Hall A

*Top 8 teams based upon their highest programming and highest driver score combined*

Award Distribution (except The Excellence Award which is given on stage)

**NOTE:** For the ENTIRE event, all teams get a MAX of 3 Official Skills Runs of Programming and 3 Official Skills Runs of Driver.
Junior Solar Sprint (JSS) is an exciting solar car competition designed to support the instruction of STEM in categories such as alternative fuels, engineering design and aerodynamics. Teams of students work together to design, build, and race solar electric vehicles using hands-on engineering skills and principles of science and math. The JSS program has been managed by the US Army Educational Outreach Program (AEOP) for more than 10 years, and has been administered by TSA since 2011. JSS made its debut as an official TSA middle school event at the 2014 National TSA Conference in Washington, DC.

### Junior Solar Sprint Schedule

**Saturday, June 29, 11:00 AM – 12:00 PM**  
AEOP Panel  
Chesapeake 5

**Saturday, June 29, 1:00 PM – 2:00 PM**  
Check-in, submit entries and submit LEAP  
Prince George’s Exhibition Hall E

**Sunday, June 30, 11:00 AM – 3:00 PM**  
Time Trials  
Orchard Terrace  
Inclement weather  
Prince George’s Exhibition Hall E

**Sunday, June 30, 12:30 PM – 3:30 PM**  
Focus Groups  
Prince George’s Exhibition Hall E  
*Required for JSS participants. Requested for JSS Advisors.*

**Monday, July 1, 11:00 AM**  
Semifinalists report  
Prince George’s Exhibition Hall E

**Monday, July 1, 11:30 AM – 2:00 PM**  
Semifinals  
Orchard Terrace  
Inclement weather  
Prince George’s Exhibition Hall E

**Monday, July 1, 4:00 PM – 4:30 PM**  
All entries MUST be picked up  
Prince George’s Exhibition Hall E

The AEOP is comprised of Army-sponsored research, education, competitions, internships, and practical experiences designed to engage and guide students and teachers in STEM education. Other AEOP programs include Unite, eCYBERMISSION, the Junior Science and Humanities Symposium (JSHS), and many more. Visit www.usaeop.com to learn more.
Tests of Engineering Aptitude, Mathematics, and Science (TEAMS) is a competition administered by TSA in which students apply advanced mathematics and science to real-world engineering issues. State level TEAMS competitions occur during February and March at host university sites, or schools may choose to hold the competition at their own school.

TSA chapter advisors can promote TEAMS at their schools by becoming a TEAMS coach themselves, or by encouraging other teachers (particularly technology, math, science and pre-engineering disciplines) to do so. Schools with TSA chapters receive a 30% discount off the national registration fee for TEAMS. For more information about TEAMS, please contact Jenn Glover, TEAMS Manager, at jglover@tsaweb.org.

**TEAMS Schedule**

**Saturday, June 29, 7:15 AM – 7:45 AM**  
Conference packet pick up Woodrow Wilson Registration Desk

**Saturday, June 29, 8:00 AM – 8:30 AM**  
Coaches Meeting Woodrow Wilson A

**Saturday, June 29, 8:15 AM – 9:00 AM**  
Mandatory Captains Meeting Woodrow Wilson B

**Saturday, June 29, 9:30 AM – 11:00 AM**  
Research Presentation, Session 1 Prince George's Exhibition Hall B

**Saturday, June 29, 1:30 PM – 3:00 PM**  
Research Presentation, Session 2 Prince George's Exhibition Hall B

**Saturday, June 29, 4:00 PM – 5:00 PM**  
Research Presentation Showcase Prince George's Exhibition Hall B

**Sunday, June 30, 8:30 AM – 10:00 AM**  
MS Design/Build & Engineering Computations Prince George's Exhibition Hall B

**Sunday, June 30, 10:30 AM – 12:00 PM**  
9/10 Design/Build & Engineering Computations Prince George's Exhibition Hall B

**Sunday, June 30, 1:00 PM – 2:30 PM**  
11/12 Design/Build & Engineering Computations Prince George's Exhibition Hall B

**Sunday, June 30, 4:00 PM – 5:00 PM**  
TEAMS General Leadership Session Cherry Blossom Ballroom

**Monday, July 1, 10:00 AM – 1:30 PM**  
Research Presentation Semi-Finals Baltimore 3, 4, and 5

**Monday, July 1, 1:30 PM – 2:30 PM**  
Research Presentation Crowd Favorite Voting Annapolis 1, 2, and 3

**Monday, July 1, 3:30 PM – 4:30 PM**  
TEAMS Leadership Workshop Woodrow Wilson A

**Monday, July 1, 6:00 PM – 7:00 PM**  
TEAMS Awards Ceremony Potomac Ballroom
The following schools provided exemplary STEM resources to students through TSA membership AND participation in TEAMS.

ALABAMA
Oak Mountain HS

CALIFORNIA
Palos Verdes HS
Palos Verdes Peninsula HS
The Harker School

COLORADO
Alameda Int’l Jr./Sr. HS
Rock Canyon HS

CONNECTICUT
Darien HS
New Canaan HS

FLORIDA
Amos P. Godby HS
Mainland HS
Middleton HS
Pine Crest School
Southeast HS

GEORGIA
Arabia Mountain HS
Bennett’s Mill Road MS
Berkmar HS
Chamblee HS
Coffee High Trojans
Coleman MS
Fannin County HS
Harris County Carver MS
Mountain View HS
Parkview HS
River Ridge HS
Shiloh HS
Stockbridge HS
Summerour MS
Union County HS
Woodstock HS

IDAHO
Nezperce HS

INDIANA
Laporte HS
North Central HS
Penn HS

IOWA
Adel DeSoto Minburn HS

KENTUCKY
Marshall County HS
Owensboro Innovation Academy

MISSOURI
Adrian HS
Affton HS
Clayton HS
Cross Keys MS
Parkway West Sr. HS

MONTANA
Ronan HS

NEW HAMPSHIRE
Plymouth ES
White Mountains Regional HS

NEW JERSEY
Bayonne HS
Biotechnology HS
Bordentown Regional HS
Cumberland Regional HS
Hackettstown HS
High Technology HS
Hillside HS
Hoboken Charter School
Howell MS North
Howell MS South
Manalapan HS
Middlesex County Academy
New Providence HS
Northern Valley Regional HS at Old Tappan
Washington Township HS

NORTH CAROLINA
Panther Creek HS
Walkertown MS

NORTH DAKOTA
Thompson HS

OHIO
Butler Tech - Liberty Jr. HS
Fort Jennings HS
Mapleton M-ES
North Union HS

OKLAHOMA
Francis Tuttle Technology Center
Whittier MS
Yukon MS

PENNSYLVANIA
Blackhawk HS
Central Valley MS
Fox Chapel Area HS
Governor Mifflin HS
Greensburg Salem HS
Highland MS
North Allegheny Intermediate Penn Manor
Pine-Richland HS

SOUTH CAROLINA
Florence Chapel MS

TEXAS
Alvin HS
Captain John L Chapin HS
Katy HS
Little Elm HS
Manvel HS
McKinney HS
Robert M. Shoemaker HS
Shadow Creek HS
Stephen F. Austin MS
Uplift Mighty Preparatory West HS
William P. Clements HS

VIRGINIA
Annandale HS
Holman MS
Luther Jackson MS
Rock Ridge HS

WASHINGTON
Tolt MS

WEST VIRGINIA
Valley HS

WISCONSIN
New London HS

TURKEY
Istanbul Erkek Lisesi
The Koç School
# TEAMS
(Tests of Engineering Aptitude, Mathematics, and Science)

## 2019 Best in State Ranking

### HIGH SCHOOL – 11/12 Level

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<th>State</th>
<th>School Name</th>
<th>Rank</th>
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<td>ARKANSAS</td>
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<td>MONTANA</td>
<td>Ronan HS (A)</td>
<td></td>
</tr>
<tr>
<td>NEBRASKA</td>
<td>Hastings Senior HS (A)</td>
<td></td>
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<tr>
<td>NEVADA</td>
<td>Northwest Career &amp; Technical Academy (A)</td>
<td></td>
</tr>
<tr>
<td>NEW JERSEY</td>
<td>Montgomery High School (C)</td>
<td></td>
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<tr>
<td>NEW YORK</td>
<td>McQuaid Jesuit (A)</td>
<td></td>
</tr>
<tr>
<td>NORTH CAROLINA</td>
<td>Panther Creek HS (B)</td>
<td></td>
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<tr>
<td>NORTH DAKOTA</td>
<td>Grand Forks Central HS (A)</td>
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<tr>
<td>OHIO</td>
<td>St. Charles Preparatory (E)</td>
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<tr>
<td>OKLAHOMA</td>
<td>Oklahoma School of Science and Mathematics (B)</td>
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<td>PENNSYLVANIA</td>
<td>Fort LeBoeuf (A)</td>
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<tr>
<td>SOUTH DAKOTA</td>
<td>Harrisburg HS (A)</td>
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<tr>
<td>TENNESSEE</td>
<td>Montgomery Bell Academy (B)</td>
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<tr>
<td>TEXAS</td>
<td>McKinney HS (A)</td>
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<tr>
<td>VIRGINIA</td>
<td>Rock Ridge HS (A)</td>
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<tr>
<td>WASHINGTON</td>
<td>Cedarcrest HS/Team 1 (A)</td>
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<tr>
<td>WEST VIRGINIA</td>
<td>Wheeling Park HS (A)</td>
<td></td>
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<tr>
<td>WISCONSIN</td>
<td>New London HS (B)</td>
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<tr>
<td>WYOMING</td>
<td>Green River HS (A)</td>
<td></td>
</tr>
<tr>
<td>TURKEY</td>
<td>The Koc School (A)</td>
<td></td>
</tr>
</tbody>
</table>
## TEAMS
(Tests of Engineering Aptitude, Mathematics, and Science)
### 2019 Best in State Ranking

<table>
<thead>
<tr>
<th>HIGH SCHOOL – 9/10 Level</th>
<th>HIGH SCHOOL – 9/10 Level</th>
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</thead>
<tbody>
<tr>
<td><strong>ALABAMA</strong></td>
<td><strong>MISSOURI</strong></td>
</tr>
<tr>
<td>Spain Park HS (A)</td>
<td>Parkway West Senior HS (A)</td>
</tr>
<tr>
<td><strong>ARIZONA</strong></td>
<td><strong>NEBRASKA</strong></td>
</tr>
<tr>
<td>Shadow Mountain HS (A)</td>
<td>Elkhorn South HS (B)</td>
</tr>
<tr>
<td><strong>ARKANSAS</strong></td>
<td><strong>NEVADA</strong></td>
</tr>
<tr>
<td>Little Rock Central HS (A)</td>
<td>Northwest Career &amp; Technical Academy (A)</td>
</tr>
<tr>
<td><strong>CALIFORNIA</strong></td>
<td><strong>NEW HAMPSHIRE</strong></td>
</tr>
<tr>
<td>Palo Alto HS 1389 (A)</td>
<td>White Mountains Regional HS (A)</td>
</tr>
<tr>
<td><strong>COLORADO</strong></td>
<td><strong>NEW JERSEY</strong></td>
</tr>
<tr>
<td>Educational Talent Search (D)</td>
<td>Bergen County Academies (A)</td>
</tr>
<tr>
<td><strong>CONNECTICUT</strong></td>
<td><strong>NORTH CAROLINA</strong></td>
</tr>
<tr>
<td>Taft School (A)</td>
<td>Davidson Early College HS (A)</td>
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<tr>
<td><strong>DELAWARE</strong></td>
<td><strong>NORTH DAKOTA</strong></td>
</tr>
<tr>
<td>Archmere Academy (B)</td>
<td>Grand Forks Central HS (A)</td>
</tr>
<tr>
<td><strong>FLORIDA</strong></td>
<td><strong>OHIO</strong></td>
</tr>
<tr>
<td>Southeast HS (A)</td>
<td>Shawnee HS (A)</td>
</tr>
<tr>
<td><strong>GEORGIA</strong></td>
<td><strong>OKLAHOMA</strong></td>
</tr>
<tr>
<td>Union County HS STEM (A)</td>
<td>Francis Tuttle Technology Center (A)</td>
</tr>
<tr>
<td><strong>HAWAI’I</strong></td>
<td><strong>OREGON</strong></td>
</tr>
<tr>
<td>Waipahu HS Academy of Engineering (E)</td>
<td>Tech for Kids Club (A)</td>
</tr>
<tr>
<td><strong>IDAHO</strong></td>
<td><strong>PENNSYLVANIA</strong></td>
</tr>
<tr>
<td>Classical Christian Academy (A)</td>
<td>General McLane HS (A)</td>
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<tr>
<td><strong>ILLINOIS</strong></td>
<td><strong>SOUTH DAKOTA</strong></td>
</tr>
<tr>
<td>A.E. Stevenson HS (A)</td>
<td>Castilewood HS (A)</td>
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<tr>
<td><strong>INDIANA</strong></td>
<td><strong>TENNESSEE</strong></td>
</tr>
<tr>
<td>Terre Haute South (A)</td>
<td>Signal Mountain M-HS (A)</td>
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<tr>
<td><strong>IOWA</strong></td>
<td><strong>TEXAS</strong></td>
</tr>
<tr>
<td>Iowa City West High (D)</td>
<td>McNeil HS (B)</td>
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<tr>
<td><strong>KENTUCKY</strong></td>
<td><strong>VIRGINIA</strong></td>
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<tr>
<td>Notre Dame Academy (A)</td>
<td>Virginia Episcopal School (B)</td>
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<tr>
<td><strong>KENTUCKY</strong></td>
<td><strong>WEST VIRGINIA</strong></td>
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<tr>
<td>Owensboro Innovation Academy (D)</td>
<td>Parkersburg HS (A)</td>
</tr>
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<td><strong>LOUISIANA</strong></td>
<td><strong>WISCONSIN</strong></td>
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<tr>
<td>Mount Carmel Academy (A)</td>
<td>New London HS (A)</td>
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<tr>
<td><strong>MASSACHUSETTS</strong></td>
<td><strong>WYOMING</strong></td>
</tr>
<tr>
<td>Amherst Regional HS (A)</td>
<td>Torrington HS (B)</td>
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<tr>
<td><strong>MICHIGAN</strong></td>
<td><strong>TURKEY</strong></td>
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<tr>
<td>Kalamazoo Christian HS (A)</td>
<td>TEV Inanc Turkes HS / Inanc TSA Club (A)</td>
</tr>
<tr>
<td><strong>MINNESOTA</strong></td>
<td></td>
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<tr>
<td>Fergus Falls HS (B)</td>
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</table>
# TEAMS

(Tests of Engineering Aptitude, Mathematics, and Science)

## 2019 Best in State Ranking

<table>
<thead>
<tr>
<th>MIDDLE SCHOOL Level</th>
<th>MIDDLE SCHOOL Level</th>
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<tbody>
<tr>
<td>ALABAMA</td>
<td>OHIO</td>
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<tr>
<td>Berry Engineering and Science Team (A)</td>
<td>Butler Tech - Liberty Jr. HS (A)</td>
</tr>
<tr>
<td>CALIFORNIA</td>
<td>OKLAHOMA</td>
</tr>
<tr>
<td>Green Jarguar (A)</td>
<td>Cheyenne MS (A)</td>
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<tr>
<td>COLORADO</td>
<td>OREGON</td>
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<tr>
<td>Alameda International SHPE Jr./Sr. HS (A)</td>
<td>MathletiX Center (A)</td>
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<tr>
<td>FLORIDA</td>
<td>PENNSYLVANIA</td>
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<tr>
<td>Saint Anthony Catholic School (B)</td>
<td>Ligonier Valley MS (A)</td>
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<td>GEORGIA</td>
<td>SOUTH CAROLINA</td>
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<td>Harris County Carver MS (A)</td>
<td>School of the Minds (A)</td>
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<td>IDAHO</td>
<td>SOUTH DAKOTA</td>
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<tr>
<td>Classical Christian Academy (A)</td>
<td>Meade School District (A)</td>
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<td>INDIANA</td>
<td>TENNESSEE</td>
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<tr>
<td>Discovery MS (A)</td>
<td>Jonesborough MS (A)</td>
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<tr>
<td>IOWA</td>
<td>TEXAS</td>
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<tr>
<td>Northwest Jr. HS (A)</td>
<td>Grantham Academy (A)</td>
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<tr>
<td>LOUISIANA</td>
<td>TEXAS</td>
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<td>Mount Carmel Academy (A)</td>
<td>Grantham Academy (B)</td>
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<tr>
<td>NEW JERSEY</td>
<td>VIRGINIA</td>
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<tr>
<td>Howell MS South (A)</td>
<td>MyEdMaster (A)</td>
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<td>NORTH CAROLINA</td>
<td>WASHINGTON</td>
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<tr>
<td>Walkertown MS (A)</td>
<td>Tolt MS (A)</td>
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<tr>
<td>NORTH DAKOTA</td>
<td>TURKEY</td>
</tr>
<tr>
<td>St. John Public School (A)</td>
<td>Aci Schools (A)</td>
</tr>
</tbody>
</table>
Program of Activities
Schedule-at-a-Glance

Friday, June 28

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>12:00 PM – 3:00 PM</td>
<td>State Flag Representative Photos</td>
<td>Potomac Ballroom Foyer</td>
</tr>
<tr>
<td>12:00 PM – 8:00 PM</td>
<td>Conference Registration Packet Pick Up</td>
<td>Potomac Ballroom Foyer</td>
</tr>
<tr>
<td>2:00 PM – 3:00 PM</td>
<td>CRC Managers Meeting</td>
<td>Chesapeake A</td>
</tr>
<tr>
<td>3:00 PM – 4:00 PM</td>
<td>National TSA Officer Candidates Meeting</td>
<td>Potomac Ballroom A</td>
</tr>
<tr>
<td>4:00 PM – 5:00 PM</td>
<td>Advisor Update Meeting</td>
<td>Cherry Blossom Ballroom</td>
</tr>
<tr>
<td>5:00 PM – 6:00 PM</td>
<td>Mandatory Competitive Event Coordinator Meeting</td>
<td>National Harbor 10</td>
</tr>
<tr>
<td>6:00 PM – 6:30 PM</td>
<td>Submit LEAP and team representative meeting to receive the topic</td>
<td>Cherry Blossom Ballroom</td>
</tr>
<tr>
<td>6:00 PM – 9:00 PM</td>
<td>Mandatory State Delegation Meetings</td>
<td>Various Locations</td>
</tr>
<tr>
<td>6:00 PM – 9:00 PM</td>
<td>Check-in and submit LEAP</td>
<td>Prince George’s Exhibition Hall E</td>
</tr>
<tr>
<td>7:00 PM – 9:00 PM</td>
<td>IT Fundamentals certification exams for Advisors</td>
<td>National Harbor 8</td>
</tr>
<tr>
<td>7:00 PM – 9:00 PM</td>
<td>Check-in, set up entry, and submit LEAP</td>
<td>Prince George’s Exhibition Hall D</td>
</tr>
<tr>
<td>7:00 PM – 9:00 PM</td>
<td>Check-in, sign-up for setup time, and submit LEAP</td>
<td>National Harbor 15</td>
</tr>
<tr>
<td>7:00 PM – 9:00 PM</td>
<td>Check-in and submit LEAP</td>
<td>Chesapeake 4</td>
</tr>
<tr>
<td>7:00 PM – 9:00 PM</td>
<td>Future Technology and Engineering Teacher</td>
<td>Chesapeake 4</td>
</tr>
<tr>
<td>7:00 PM – 9:00 PM</td>
<td>Music Production</td>
<td>National Harbor 4</td>
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<tr>
<td>7:00 PM – 9:00 PM</td>
<td>Photographic Technology</td>
<td>National Harbor 4</td>
</tr>
<tr>
<td>7:00 PM – 9:00 PM</td>
<td>Check-in, sign-up for presentation time, submit documentation,</td>
<td>National Harbor 15</td>
</tr>
<tr>
<td>7:00 PM – 9:00 PM</td>
<td>and submit LEAP</td>
<td>Chesapeake 7</td>
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</tbody>
</table>
Program of Activities
Schedule-at-a-Glance

Friday, June 28

7:00 PM – 9:00 PM
Check-in, submit entry, and submit LEAP
Children’s Stories - HS
Community Service Video - MS
Digital Photography - MS
Inventions and Innovations - MS
Mechanical Engineering - MS
Promotional Design - HS
Promotional Marketing - MS
Scientific and Technical Visualization (SciViz) - HS
STEM Animation - MS
Structural Design and Engineering - HS
Check-in, submit entry, submit LEAP, and sign-up for presentation time
Software Development - HS
Check-in, submit LEAP, sign-up for testing time
IT Fundamentals+ - HS
Pre-built structures, documentation, and submit LEAP
Structural Engineering - MS
Submit materials and submit LEAP
Career Prep - MS
Children’s Stories - MS
8:00 PM – 8:30 PM
Submit LEAP and sign-up for heat time
Challenging Technology Issues - MS
Extemporaneous Speech - HS
Leadership Strategies - MS
Prepared Presentation - HS
Prepared Speech - MS
10:00 PM
Curfew
<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:00 AM – 8:00 AM</td>
<td>Submit LEAP, portfolio, and garments</td>
<td>Fashion Design and Technology - HS National Harbor 12</td>
</tr>
<tr>
<td>7:15 AM – 8:45 AM</td>
<td>State Flag Representatives Meeting</td>
<td>Potomac Ballroom A</td>
</tr>
<tr>
<td>7:15 AM – 7:45 AM</td>
<td>TEAMS* Conference Packet Pickup</td>
<td>Woodrow Wilson Registration Desk</td>
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<tr>
<td>8:00 AM – 8:30 AM</td>
<td>TEAMS* Coaches Meeting</td>
<td>Woodrow Wilson A</td>
</tr>
<tr>
<td>8:15 AM – 9:00 AM</td>
<td>TEAMS* Captains Meeting</td>
<td>Woodrow Wilson B</td>
</tr>
<tr>
<td>9:00 AM – 11:00 AM</td>
<td>Opening General Session (General Session I)</td>
<td>Potomac Ballroom</td>
</tr>
<tr>
<td>9:00 AM – 5:00 PM</td>
<td>Information Desk Open</td>
<td>Potomac Registration Desk A</td>
</tr>
<tr>
<td>9:30 AM – 3:00 PM</td>
<td>TEAMS* Research Presentation Competition</td>
<td>Prince George's Exhibition Hall B</td>
</tr>
<tr>
<td>11:00 AM</td>
<td>Special Interest Session Getting Smart on Artificial Intelligence</td>
<td>Azalea 2</td>
</tr>
<tr>
<td></td>
<td>Special Interest Session STEM at the United States Naval Academy</td>
<td>Magnolia 3</td>
</tr>
<tr>
<td>11:00 AM – 11:30 AM</td>
<td>TSA Pin Exchange</td>
<td>Cherry Blossom Foyer</td>
</tr>
<tr>
<td>11:00 AM – 11:30 AM</td>
<td>Semifinalist teams report for onsite assignment and LEAP interview time</td>
<td>National Harbor 1</td>
</tr>
<tr>
<td>11:00 AM – 12:00 PM</td>
<td>AEOP Panel</td>
<td>Chesapeake 5</td>
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<tr>
<td></td>
<td>Check-in, submit LEAP, Orientation Meeting</td>
<td>Woodrow Wilson A</td>
</tr>
<tr>
<td>11:00 AM – 12:00 PM</td>
<td>AEOP Panel</td>
<td>Cherry Blossom Foyer</td>
</tr>
</tbody>
</table>

The Program of Activities for the 2019 National TSA Conference is structured to provide a comprehensive experience for participants, offering a variety of sessions, panels, and competitions designed to enhance learning and engagement across different fields of study.
Program of Activities
Schedule-at-a-Glance

Saturday, June 29

11:00 AM – 12:00 PM
Pre-Debate Meeting
Debating Technological Issues - HS Woodrow Wilson B

11:00 AM – 12:30 PM
Written test and submit LEAP
Tech Bowl - MS Prince George's Exhibition Hall C

11:00 AM – 2:00 PM
Report for presentation topic
Prepared Presentation - HS Chesapeake 3

11:00 AM – 3:00 PM
Prep room and heat room assignment
Extemporaneous Speech - HS Baltimore 2

11:00 AM – 7:00 PM
Testing
IT Fundamentals+ - HS National Harbor 8

11:30 AM
Special Interest Session
Integrating TSA into the Classroom Azalea 1

Special Interest Session
Bring STEM To Life for All Students! Azalea 3

LEAP/The Student Leadership Challenge Training
The Student Leadership Challenge—Leading Others to do Extraordinary Things Chesapeake D/E

11:30 AM – 12:30 PM
Advisor Update Meeting Cherry Blossom Ballroom

12:00 PM – 1:00 PM
Submit LEAP and Orientation/Set up
Computer Aided Design (CAD), Architecture - HS National Harbor 10

12:00 PM – 2:30 PM
Heat #1
Coding - HS National Harbor 5

12:00 PM – 4:00 PM
Prep room and heat room assignment and heats
Leadership Strategies - MS Maryland Ballroom A1

12:00 PM – 6:00 PM
Trim & Fly; Time trials
Flight Endurance - HS Maryland Ballroom C

12:00 PM – 7:00 PM
IQ Team Check-in, Inspection, Practice and Skills
VEX Robotics Competition - MS Prince George’s Exhibition Hall A

VRC Team Check-in and Inspection, Skills & Practice
VEX Robotics Competition - HS Prince George’s Exhibition Hall A
Program of Activities
Schedule-at-a-Glance

Saturday, June 29

12:30 PM
Special Interest Session
The Flight of the Drones: A Sequel  Azalea 2

12:30 PM – 2:30 PM
State Advisor Forum  Chesapeake 2

1:00 PM
Special Interest Session
Computer Science Teachers Association: A Helpful Resource for STEM Teachers  Magnolia 3

Special Interest Session
SES Humanoid Robotic National Championships: Robotic Dance and Storytelling  Azalea 1

1:00 PM – 2:00 PM
State Presidents Meeting  National Harbor 6

1:00 PM – 2:00 PM
Check-in, submit entry, and submit LEAP
Junior Solar Sprint - MS  Prince George’s Exhibition Hall E

1:00 PM – 2:30 PM
Written test and submit LEAP
Chapter Team - MS  Prince George’s Exhibition Hall C
Forensic Science - HS  Woodrow Wilson B

1:00 PM – 5:00 PM
TSA Partner Hub  Potomac Pre-Function

1:00 PM – 5:00 PM
Report for heat room assignment
Debating Technological Issues - HS  Annapolis 4

1:00 PM – 5:30 PM
Performance
Computer Aided Design (CAD), Architecture - HS  National Harbor 10

1:30 PM – 5:30 PM
Time trials
Dragster - MS  Prince George’s Exhibition Hall E
Dragster Design - HS  Prince George’s Exhibition Hall E

2:00 PM
LEAP/The Student Leadership Challenge Training
The Student Leadership Challenge—Leading Others to do Extraordinary Things  Chesapeake D/E

2:00 PM – 2:30 PM
State Officer Networking  National Harbor 6

2:00 PM – 3:00 PM
Town Hall: Preparing Students for Careers in Technology (for registered parents)  Cherry Blossom Ballroom
Program of Activities
Schedule-at-a-Glance

Saturday, June 29

2:00 PM – 5:30 PM
Pre-built stress test
Structural Design and Engineering - HS National Harbor 2
Structural Engineering - MS National Harbor 3

3:00 PM
Special Interest Session
New Middle School Events 2020–2021 Magnolia 3

3:00 PM – 4:30 PM
Written test and submit LEAP
Chapter Team - HS Prince George's Exhibition Hall C
Forensic Technology - MS Woodrow Wilson B

3:00 PM – 5:00 PM
Set up displays and submit LEAP
Biotecnology - MS Prince George's Exhibition Hall D
Construction Challenge - MS Prince George’s Exhibition Hall D
Medical Technology - MS Prince George’s Exhibition Hall D
Off the Grid - MS Prince George’s Exhibition Hall D
Submit entry and LEAP
Mass Production - MS Prince George’s Exhibition Hall D

3:00 PM – 5:30 PM
Heat #2
Coding - HS National Harbor 5

3:30 PM
LEAP/The Student Leadership Challenge Training
The Student Leadership Challenge—
Leading Others to do Extraordinary Things Chesapeake D/E

4:00 PM – 6:00 PM
Check-in, set up entry, and submit LEAP
Biotecnology Design - HS Prince George’s Exhibition Hall D
Board Game Design - HS Prince George’s Exhibition Hall D
Engineering Design - HS Prince George’s Exhibition Hall D

4:30 PM
Virtual Live Scoring
Cybersecurity - HS Cherry Blossom Ballroom

5:00 PM – 5:30 PM
All portfolios and garments MUST be picked up
Fashion Design and Technology - HS National Harbor 12

5:00 PM – 6:00 PM
TSA Region 1–5 Meeting (State Officers only)
Region 1 (CT, DE, DC, ME, MD, MA, NH, NJ, NY, PA, RI, VT) Camellia 1
Region 2 (AL, FL, GA, LA, MS, NC, SC, TN) Camellia 2
Region 3 (IL, IN, KY, MI, OH, VA, WV, WI) Azalea 3
Region 4 (AR, IA, KS, MN, MO, NE, ND, OK, SD) Azalea 2
Region 5 (AK, AZ, CA, CO, HI, ID, MT, NV, NM, OR, TX, UT, WA, WY) Azalea 1
Program of Activities
Schedule-at-a-Glance

Saturday, June 29

5:00 PM – 6:30 PM
Written test and submit LEAP
Coding - MS, Woodrow Wilson B
Technology Bowl - HS, Prince George’s Exhibition Hall C

5:30 PM – 6:00 PM
All entry MUST be picked up
Inventions and Innovations - MS, Prince George’s Exhibition Hall D

5:30 PM – 7:00 PM
Semifinalist and LEAP interview
Computer Aided Design (CAD), Architecture - HS, National Harbor 10

6:00 PM – 6:30 PM
Pick up problem and submit LEAP
Technical Design - MS, Cherry Blossom Ballroom

6:00 PM – 9:00 PM
State Delegation Meetings
See pages 60-61, Various Locations

7:00 PM
Virtual Live Scoring
Cybersecurity - HS, Cherry Blossom Ballroom

8:30 PM
Virtual Live Scoring
Cybersecurity - HS, Cherry Blossom Ballroom

10:00 PM
Curfew

Sunday, June 30

7:00 AM – 8:00 AM
Check-in, submit documentation, product, manufactured pieces, and LEAP
Computer Integrated Manufacturing (CIM) - HS, Maryland Ballroom A3

8:30 AM – 2:30 PM
TEAMS* Competition Design/Build
Engineering Computations, Prince George’s Exhibition Hall B

9:00 AM – 11:00 AM
Recognition Assembly (General Session II), Potomac Ballroom

9:00 AM – 5:00 PM
Information Desk Open
Potomac Registration Desk A

11:00 AM
Special Interest Session
Help Inspire Middle School Girls to Explore Tech, Azalea 2

Special Interest Session
3D Home Design Software in the Classroom, Azalea 3
Program of Activities
Schedule-at-a-Glance

Sunday, June 30

11:00 AM
Semifinalists report for speech and LEAP interview time
Extemporaneous Speech - HS Chesapeake 7

Semifinalists sign-up for LEAP interviews
Transportation Modeling - HS Prince George’s Exhibition Hall E

11:00 AM – 11:30 AM
TSA Pin Exchange Cherry Blossom Foyer

11:00 AM – 11:30 AM
Semifinalists submit onsite assignment solution
3D Animation - HS National Harbor 1

Semifinalists team representative report for interview time
Website Design - MS Chesapeake I

11:00 AM – 12:30 PM
Semifinalists interviews (Top 16 cars)
Dragster - MS Prince George’s Exhibition Hall E
Dragster Design - HS Prince George’s Exhibition Hall E

11:00 AM – 2:00 PM
Construction and submit LEAP
Flight - MS Maryland Ballroom C

Prep room and heat room assignment and heats
Challenging Technology Issues - MS Annapolis 4

Report for heat room assignment
Prepared Presentation - HS Baltimore 1

11:00 AM – 2:30 PM
Submit LEAP and Design/Solution
Technology Problem Solving - HS Prince George’s Exhibition Hall C

11:00 AM – 3:00 PM
Time Trials
Junior Solar Sprint - MS Orchard Terrace
Inclement weather Prince George’s Exhibition Hall E

11:00 AM – 6:00 PM
Trim and official time trial
Flight - MS Maryland Ballroom C

11:00 AM – 7:00 PM
Testing
IT Fundamentals+ - HS National Harbor 8

11:30 AM
Semifinalists report for interview time
Music Production - HS Chesapeake K

Semifinalists report for presentation time
Children’s Stories - MS National Harbor 13
Future Technology and Engineering Teacher - HS Chesapeake L
Mechanical Engineering - MS Woodrow Wilson D
## Program of Activities

### Schedule-at-a-Glance

**Sunday, June 30**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>11:30 AM – 12:00 PM</td>
<td>Orientation/Set up and submit LEAP</td>
<td>CAD Foundations - MS</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Chesapeake 4</td>
</tr>
<tr>
<td>11:30 AM – 12:30 PM</td>
<td>Advisor Update Meeting</td>
<td>Cherry Blossom Ballroom</td>
</tr>
<tr>
<td>11:30 AM – 1:00 PM</td>
<td>Semifinalist LEAP interviews</td>
<td>Transportation Modeling - HS Prince George's Exhibition Hall E</td>
</tr>
<tr>
<td>11:30 AM – 1:00 PM</td>
<td>Written test and submit LEAP</td>
<td>Electrical Applications - MS Woodrow Wilson B</td>
</tr>
<tr>
<td>11:30 AM – 2:00 PM</td>
<td>Semifinalist interviews</td>
<td>Website Design - MS</td>
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<tr>
<td></td>
<td></td>
<td>Chesapeake 1</td>
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<tr>
<td>11:30 AM – 2:30 PM</td>
<td>Semifinals</td>
<td>Tech Bowl - MS (competition room) National Harbor 12</td>
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<tr>
<td></td>
<td></td>
<td>Tech Bowl - MS (holding room) National Harbor 14</td>
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<tr>
<td></td>
<td></td>
<td>IQ Inspection, Practice and Skills VEX Robotics Competition - MS Prince George's Exhibition Hall A</td>
</tr>
<tr>
<td>11:30 AM – 2:30 PM</td>
<td>Semifinals</td>
<td>Semifinals - Preparation room Extemporaneous Speech - HS Chesapeake 7</td>
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<tr>
<td></td>
<td></td>
<td>Semifinals - Presentation room/LEAP interview Extemporaneous Speech - HS Chesapeake 10</td>
</tr>
<tr>
<td>11:30 AM – 7:00 PM</td>
<td>VRC Team Check-in and Inspection, Skills &amp; Practice</td>
<td>VEX Robotics Competition - HS Prince George's Exhibition Hall A</td>
</tr>
<tr>
<td>12:00 PM</td>
<td>Semifinalist teams report</td>
<td>Debating Technological Issues - HS Chesapeake 2</td>
</tr>
<tr>
<td>12:00 PM – 12:30 PM</td>
<td>Semifinalists sign-up for LEAP interview time</td>
<td>Technology Bowl - HS</td>
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<td></td>
<td></td>
<td>National Harbor 15</td>
</tr>
<tr>
<td>12:00 PM – 12:30 PM</td>
<td>Semifinalists set up</td>
<td>Promotional Design - HS Chesapeake 3</td>
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<td></td>
<td></td>
<td>Digital Photography - MS National Harbor 9</td>
</tr>
<tr>
<td>12:00 PM – 1:00 PM</td>
<td>VIP Luncheon (by invitation only)</td>
<td>VIP Luncheon (by invitation only) Eastern Shore</td>
</tr>
<tr>
<td>12:00 PM – 1:00 PM</td>
<td>Submit LEAP and Orientation/Set up</td>
<td>Computer Aided Design (CAD), Engineering - HS National Harbor 10</td>
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<tr>
<td>12:00 PM – 2:00 PM</td>
<td>Solution Development</td>
<td>CAD Foundations - MS</td>
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<td>Chesapeake 4</td>
</tr>
</tbody>
</table>
Program of Activities
Schedule-at-a-Glance

Sunday, June 30

12:00 PM – 3:00 PM
Semifinalist presentations
Children’s Stories - MS National Harbor 13
Mechanical Engineering - MS Woodrow Wilson D

12:00 PM – 4:00 PM
Semifinalist and LEAP interviews
Music Production - HS Chesapeake K

Semifinalist presentation/LEAP interviews
Future Technology and Engineering Teacher - HS Chesapeake L

12:00 PM – 5:00 PM
Presentations
Microcontroller Design - MS Chesapeake J

12:30 PM
Special Interest Session
Jumpstarting your STEM Startup Azalea 2

12:30 PM
Semifinalists report for presentation time
Inventions and Innovations - MS Chesapeake 6
STEM Animation - MS Chesapeake G

Semifinalists report for reading and interview
Children’s Stories - HS National Harbor 4

12:30 PM – 1:00 PM
Semifinalists set up
Promotional Marketing - MS Azelea 1

12:30 PM – 3:00 PM
Semifinalist LEAP interviews
Technology Bowl - HS National Harbor 15

12:30 PM – 3:30 PM
Focus Groups
Junior Solar Sprint - MS Prince George’s Exhibition Hall E
Required for JSS participants. Requested for JSS Advisors.

Semifinalist performance
Digital Photography - MS National Harbor 9
Promotional Design - HS Chesapeake 3

12:30 PM – 6:00 PM
Semifinalists onsite problem and LEAP interviews
Photographic Technology - HS Camellia 1

1:00 PM
LEAP/The Student Leadership Challenge Training
How Your Leadership Matters in TSA Competitions Chesapeake D/E

1:00 PM – 1:30 PM
Semifinalist representative report for interview time
Video Game Design - MS Chesapeake H
Sunday, June 30

1:00 PM – 3:00 PM
Semifinals
Dragster - MS Prince George’s Exhibition Hall E

1:00 PM – 3:30 PM
Semifinalist presentations
STEM Animation - MS Chesapeake G

1:00 PM – 4:00 PM
Semifinalist presentations
Inventions and Innovations - MS Chesapeake 6

Semifinals problem
Promotional Marketing - MS Azelea 1

1:00 PM – 5:00 PM
TSA Partner Hub/TSA Meet and Greet Potomac Pre-Function

1:00 PM – 5:00 PM
Semifinalist debate and LEAP interviews
Debating Technological Issues - HS Chesapeake 5

Semifinalist holding and preparation room
Debating Technological Issues - HS Chesapeake 2

Semifinalist reading and interview
Children’s Stories - HS National Harbor 4

Semifinalists design and build
Structural Engineering - MS National Harbor 3

Semifinalists design and construction and LEAP interviews
Structural Design and Engineering - HS National Harbor 2

1:00 PM – 5:30 PM
Performance
Computer Aided Design (CAD), Engineering - HS National Harbor 10

1:00 PM – 6:00 PM
Presentations
Software Development - HS Chesapeake 9

1:00 PM – 7:00 PM
Set up entry, Presentation/Interview/entry removal
Animatronics - HS Magnolia 2

1:30 PM – 3:30 PM
Preliminaries and submit LEAP
Essays on Technology - MS Woodrow Wilson C

1:30 PM – 4:00 PM
Submit LEAP and writing
Essays on Technology - HS Woodrow Wilson B

Semifinalist interviews
Video Game Design - MS Chesapeake H

2:00 PM
Special Interest Session
What’s the Best Path to a Career in IT? Azalea 2
Program of Activities
Schedule-at-a-Glance

Sunday, June 30

2:00 PM
Virtual Live Scoring
Cybersecurity - HS Cherry Blossom Ballroom

2:00 PM – 3:00 PM
Evaluation
CAD Foundations - MS Chesapeake 4

2:00 PM – 3:30 PM
IT Fundamentals+ Certification Exams for Advisors
Advisor Testing Session 1 National Harbor 8

2:30 PM
LEAP/The Student Leadership Challenge Training
How Your Leadership Matters in TSA Competitions Chesapeake D/E

3:00 PM
Special Interest Session
STEM at the United States Naval Academy Azalea 3

3:00 PM – 3:30 PM
Special Interest Session
How Will Driverless Vehicles Operate? Azalea 2

3:00 PM – 4:00 PM
IQ Teamwork Finals Top 10 Teams
VEX Robotics Competition - MS Prince George’s Exhibition Hall A

3:00 PM – 5:00 PM
Flight Endurance - HS Maryland Ballroom C

3:00 PM – 5:30 PM
Corporate Member “Drop-In” Chesapeake 1

3:00 PM – 5:00 PM
All event materials MUST be picked up
Prepared Speech - MS Baltimore 1

3:30 PM – 5:00 PM
Semifinals
Dragster Design - HS Prince George’s Exhibition Hall E

3:00 PM – 6:30 PM
Report for heat room assignment
Semifinals (Oral) competition room
Technology Bowl - HS National Harbor 12

3:00 PM – 6:00 PM
Problem Solving - MS National Harbor 14

3:30 PM – 5:00 PM
Semifinals (Oral) holding room
Design solution and submit LEAP
Prince George’s Exhibition Hall C

3:30 PM – 5:30 PM
IT Fundamentals+ Certification Exams for Advisors
Advisor Testing Session 2 National Harbor 8

3:30 PM – 5:30 PM
Semifinalist interviews
Digital Photography - MS National Harbor 9
Program of Activities
Schedule-at-a-Glance

Sunday, June 30

3:30 PM – 5:30 PM
Semifinalist LEAP interviews
Promotional Design - HS
Chesapeake 3

5:00 PM
Special Interest Session
New Middle School Events 2020–2021
Azalea 2

Special Interest Session
Ready to Race: Junior Solar Sprint
Azalea 3

5:00 PM
Semifinalist team representative report for presentation/interview
Chapter Team - HS
National Harbor 7

Semifinalist team representative report for presentation time
Chapter Team - MS
National Harbor 6

5:00 PM – 5:30 PM
All entries MUST be picked up
Mechanical Engineering - MS
Woodrow Wilson D

5:00 PM – 6:00 PM
All entries MUST be picked up
Dragster - MS
Prince George's Exhibition Hall E
Dragster Design - HS
Prince George's Exhibition Hall E
Transportation Modeling - HS
Prince George's Exhibition Hall E

5:00 PM – 6:30 PM
IT Fundamentals+ Certification Exams for Advisors
Advisor Testing Session 3
National Harbor 8

5:30 PM – 7:00 PM
Semifinalist and LEAP interview
Computer Aided Design (CAD), Engineering - HS
National Harbor 10

6:00 PM – 6:30 PM
Submit entry by 48 hour deadline
On Demand Video - HS
Magnolia 1

Submit solution
Technical Design - MS
Magnolia 3

6:00 PM – 9:00 PM
State Delegation Meetings
See pages 60-61 Various Locations

6:30 PM
Virtual Live Scoring
Cybersecurity - HS
Cherry Blossom Ballroom

8:30 PM – 9:00 PM
All entries and materials MUST be picked up
Flight - MS
Maryland Ballroom C

10:00 PM
Curfew
Monday, July 1

7:00 AM – 7:30 AM
Voting Delegate Seating Potomac Ballroom A

9:00 AM – 11:00 AM
Annual Business Meeting (General Session III) Potomac Ballroom

9:00 AM – 5:00 PM
Information Desk Open Potomac Registration Desk A

10:00 AM – 1:30 PM

11:00 AM
Special Interest Session
Want to be an Engineer? Camellia 1

11:00 AM
Semifinalists report
Junior Solar Sprint - MS Prince George’s Exhibition Hall E

Semifinalists report for presentation/interview time
Architectural Design - HS Prince George’s Exhibition Hall D
Biotechnology - MS Prince George’s Exhibition Hall D
Biotechnology Design - HS Prince George’s Exhibition Hall D
Board Game Design - HS Prince George’s Exhibition Hall D
Construction Challenge - MS Prince George’s Exhibition Hall D
Engineering Design - HS Prince George’s Exhibition Hall D
Mass Production - MS Prince George’s Exhibition Hall D
Medical Technology - MS Prince George’s Exhibition Hall D
Off the Grid - MS Prince George’s Exhibition Hall D

Semifinalists report for speech and LEAP interview time
Prepared Presentation - HS Chesapeake 1

Semifinalists sign-up for LEAP interview time
Animatronics - HS Chesapeake 10
Coding - HS Chesapeake 11
Digital Video Production - HS Chesapeake 12
IT Fundamentals+ - HS Chesapeake 8
Technology Problem Solving - HS Chesapeake 7

11:00 AM – 12:00 PM
Set up and submit LEAP
System Control Technology - HS National Harbor 10
System Control Technology - MS National Harbor 11

11:00 AM – 4:00 PM
Semifinalists onsite problem
Coding - MS Chesapeake 4
Monday, July 1

11:30 AM
Special Interest Session
STEM at the United States Naval Academy Camellia 2

Special Interest Session
Technology and Engineering Education in Higher Education Magnolia 1

LEAP/The Student Leadership Challenge Training
Leading in Middle School and Beyond Chesapeake D/E

11:30 AM – 12:30 PM
Advisor Update Meeting Cherry Blossom Ballroom

11:30 AM – 1:00 PM
Semifinalist LEAP interviews
Animatronics - HS Chesapeake 10
Coding - HS Chesapeake 11
Digital Video Production - HS Chesapeake 12
IT Fundamentals+ - HS Chesapeake 8
Technology Problem Solving - HS Chesapeake 7

11:30 AM – 2:00 PM
Semifinals
Junior Solar Sprint - MS Orchard Terrace
Inclement weather Prince George’s Exhibition Hall E

11:30 AM – 2:30 PM
Semifinalist presentation/interviews
Biotechnology - MS Prince George’s Exhibition Hall D
Construction Challenge - MS Prince George’s Exhibition Hall D
Mass Production - MS Prince George’s Exhibition Hall D
Medical Technology - MS Prince George’s Exhibition Hall D
Off the Grid - MS Prince George’s Exhibition Hall D

Semifinals and LEAP interviews
Prepared Presentation - HS Chesapeake 1

11:30 AM – 3:00 PM
Semifinalist presentation/interviews
Architectural Design - HS Prince George’s Exhibition Hall D
Biotechnology Design - HS Prince George’s Exhibition Hall D
Board Game Design - HS Prince George’s Exhibition Hall D
Engineering Design - HS Prince George’s Exhibition Hall D

11:30 AM – 3:00 PM
VRC Skills/Practice Runs - Stop time is 3:00 pm
VEX Robotics Competition - HS Prince George’s Exhibition Hall A
Monday, July 1

**12:00 PM**
Semifinalists report for onsite challenge and LEAP interview time
Forensic Science - HS National Harbor 14

Semifinalists report for onsite time
Forensic Technology - MS Magnolia 3

Semifinalists report for presentation time
Challenging Technology Issues - MS Chesapeake L
Leadership Strategies - MS Azalea 1
Prepared Speech - MS Azalea 3

Semifinalists sign-up for presentation/interview time
Computer Integrated Manufacturing (CIM) - HS Maryland Ballroom A3
Scientific and Technical Visualization (SciViz) - HS Chesapeake K

**12:00 PM – 12:15 PM**
Problem analysis
System Control Technology - HS National Harbor 10
System Control Technology - MS National Harbor 11

**12:00 PM – 4:00 PM**
Semifinals presentation room
Chapter Team - MS National Harbor 6

**12:00 PM – 5:00 PM**
Semifinals oral presentations and LEAP interviews
Chapter Team - HS National Harbor 7

**12:15 PM – 2:45 PM**
Problem solving
System Control Technology - HS National Harbor 10
System Control Technology - MS National Harbor 11

**12:30 PM**
Semifinalist representative report for presentation/interview
Fashion Design and Technology - HS National Harbor 13

Semifinalists report for interview
Career Prep - MS National Harbor 1
Video Game Design - HS Chesapeake 2

**12:30 PM – 1:00 PM**
Semifinalist representative sign up for LEAP interview time
Webmaster - HS Chesapeake 3

**12:30 PM – 2:30 PM**
TSA, Inc. Corporate Board Annual Meeting National Harbor 4

**12:30 PM – 2:30 PM**
Semifinals
Essays on Technology - MS National Harbor 9
Program of Activities
Schedule-at-a-Glance

Monday, July 1

12:30 PM – 3:00 PM
Semifinals
Prepared Speech - MS Azalea 3

Semifinals preparation room
Challenging Technology Issues - MS Chesapeake L
Leadership Strategies - MS Azalea 1

Semifinals presentation room
Challenging Technology Issues - MS Chesapeake I
Leadership Strategies - MS Azalea 2

12:30 PM – 3:30 PM
Semifinalist assembly session/sales pitch and LEAP interviews
Computer Integrated Manufacturing (CIM) - HS Maryland Ballroom A3

Semifinalist presentation/LEAP interviews
Scientific and Technical Visualization (SciViz) - HS Chesapeake K

Semifinals
Forensic Technology - MS Magnolia 3

Semifinals and LEAP interview
Forensic Science - HS National Harbor 14

1:00 PM
Special Interest Session
New Middle School Events 2020–2021 Camellia 1

1:00 PM – 1:45 PM
CRC/Students Forum Chesapeake G

1:00 PM – 2:30 PM
Semifinalists stress test
Structural Design and Engineering - HS National Harbor 2
Structural Engineering - MS National Harbor 3

1:00 PM – 3:00 PM
Semifinalists report for interview
3D Animation - HS Chesapeake 5

Semifinalist interviews
Career Prep - MS National Harbor 1

1:00 PM – 4:00 PM
Semifinalist LEAP interviews
Video Game Design - HS Chesapeake 2
Webmaster - HS Chesapeake 3

Semifinalist presentation/LEAP interviews
Fashion Design and Technology - HS National Harbor 13

1:00 PM – 5:00 PM
Semifinalist onsite problem
Electrical Applications - MS National Harbor 8
Monday, July 1

1:30 PM
Semifinalists report for interview
Cybersecurity - HS Chesapeake 8

Semifinalists sign-up for LEAP interview time
Essays on Technology - HS Chesapeake 10
Flight Endurance - HS Chesapeake 11
Software Development - HS Chesapeake 12

1:45 PM – 2:30 PM
CRC/Advisors Forum Chesapeake G

2:00 PM
LEAP/The Student Leadership Challenge Training
Leading in High School and Beyond Chesapeake D/E

2:00 PM – 3:30 PM
Semifinalist LEAP interviews
Cybersecurity - HS Chesapeake 8
Essays on Technology - HS Chesapeake 10
Flight Endurance - HS Chesapeake 11
Software Development - HS Chesapeake 12

2:30 PM
Semifinalists representative sign-up for LEAP interview time
On Demand Video - HS Chesapeake 7

2:30 PM – 3:30 PM
TSA, Inc. Board of Directors Meeting (new board) National Harbor 5

2:45 PM – 5:15 PM
Judging
System Control Technology - HS National Harbor 10

Judging and LEAP interview
System Control Technology - MS National Harbor 11

3:00 PM
Special Interest Session
World-class K–16 STEM Opportunities Camellia 1

3:00 PM – 4:30 PM
Semifinalist LEAP interviews
On Demand Video - HS Chesapeake 7

3:15 PM – 4:30 PM
VRC Single Elimination
VEX Robotics Competition - HS Prince George’s Exhibition Hall A

4:00 PM – 4:30 PM
All entries MUST be picked up
Computer Integrated Manufacturing (CIM) - HS Maryland Ballroom A3
Junior Solar Sprint - MS Prince George’s Exhibition Hall E
Program of Activities
Schedule-at-a-Glance

Monday, July 1

4:30 PM – 5:00 PM
All displays/entries MUST be picked up
Architectural Design - HS  Prince George’s Exhibition Hall D
Biotechnology - MS  Prince George’s Exhibition Hall D
Biotechnology Design - HS  Prince George’s Exhibition Hall D
Board Game Design - HS  Prince George’s Exhibition Hall D
Children's Stories - HS  Prince George’s Exhibition Hall D
Children's Stories - MS  Prince George’s Exhibition Hall D
Construction Challenge - MS  Prince George’s Exhibition Hall D
Engineering Design - HS  Prince George’s Exhibition Hall D
Future Technology and Engineering Teacher - HS  Prince George’s Exhibition Hall D
Mass Production - MS  Prince George’s Exhibition Hall D
Medical Technology - MS  Prince George’s Exhibition Hall D
Off the Grid - MS  Prince George’s Exhibition Hall D
Promotional Design - HS  Prince George’s Exhibition Hall D
STEM Animation - MS  Prince George’s Exhibition Hall D
Technical Design - MS  Prince George’s Exhibition Hall D

5:30 PM – 6:00 PM
Mandatory equipment pick-up
System Control Technology - HS  National Harbor 10
System Control Technology - MS  National Harbor 11

6:00 PM – 7:00 PM
TEAMS* – Awards Ceremony  Potomac Ballroom

7:00 PM – 9:00 PM
CompTIA Pro Senior Night Celebration  RiverView Ballroom

10:00 PM
Curfew

Tuesday, July 2

8:00 AM – 11:00 AM
Awards Ceremony (General Session IV)  Potomac Ballroom

11:00 AM – 12:00 PM
National TSA Officers Meeting (new officers)  Chesapeake 3

*Tests of Engineering Aptitude, Mathematics, and Science
Spectator Events
High School and Middle School

**Important competition update:** The viewing of display (static) entries will be closed to all conference attendees for security reasons and in order to preserve the intellectual property rights of TSA’s contestants.

The events listed below allow spectators at the date, time, and location noted. Spectators must observe “audience” guidelines set down by the event coordinator, and — at all times — must be respectful of individuals/teams participating in an event.

### Saturday, June 29

- **Flight Endurance - HS, 12:00 PM – 6:00 PM**
  Trim & Fly; Time Trials Maryland Ballroom C

- **Dragster Design - HS, 1:30 PM – 5:30 PM**
  Time Trials Prince George’s Exhibition Hall E

- **Dragster - MS, 1:30 PM – 5:30 PM**
  Time Trials Prince George’s Exhibition Hall E

- **Structural Design and Engineering - HS, 2:00 PM – 5:30 PM**
  Pre-built stress test National Harbor 2

- **Structural Engineering - MS, 2:00 PM – 5:30 PM**
  Pre-built stress test National Harbor 3

- **Cybersecurity - HS, 4:30 PM, 7:00 PM, 8:30 PM**
  Virtual Live Scoring Cherry Blossom Ballroom

### Sunday, June 30

- **Technology Problem Solving - HS, 11:00 AM – 2:30 PM**
  Design/Solution Prince George’s Exhibition Hall C

- **Junior Solar Sprint - MS, 11:00 AM – 3:00 PM**
  Time Trials Orchard Terrace
  Inclement weather Prince George’s Exhibition Hall E

- **Flight - MS, 11:00 AM – 6:00 PM**
  Trim & Fly; Time Trials Maryland Ballroom C

- **Extemporaneous Speech - HS, 11:30 AM – 2:30 PM**
  Semifinals Chesapeake 10

- **Tech Bowl - MS, 11:30 AM – 2:30 PM**
  Semifinals National Harbor 12

- **Dragster - MS, 1:00 PM – 3:00 PM**
  Semifinals Prince George’s Exhibition Hall E

- **Inventions and Innovations - MS, 1:00 PM – 4:00 PM**
  Semifinalist presentations Chesapeake 6

- **Debating Tech Issues - HS, 1:00 PM – 5:00 PM**
  Semifinalist Debate Portion Only Chesapeake 5

- **Cybersecurity - HS, 2:00 PM**
  Virtual Live Scoring Cherry Blossom Ballroom
Spectator Events
High School and Middle School

**Important competition update:** The viewing of display (static) entries will be closed to all conference attendees for security reasons and in order to preserve the intellectual property rights of TSA’s contestants.

The events listed below allow spectators at the date, time, and location noted. Spectators must observe “audience” guidelines set down by the event coordinator, and — at all times — must be respectful of individuals/teams participating in an event.

### Sunday, June 30

- **Dragster Design - HS, 3:00 PM – 5:00 PM**
  - Semifinals
  - Prince George’s Exhibition Hall E
- **Technology Bowl - HS, 3:00 PM – 6:00 PM**
  - Semifinals Oral Portion Only
  - National Harbor 12
- **Problem Solving - MS, 3:00 PM – 6:30 PM**
  - Design Solution
  - Prince George’s Exhibition Hall C
- **Cybersecurity - HS, 6:30 PM**
  - Virtual Live Scoring
  - Cherry Blossom Ballroom

### Monday, July 1

- **Junior Solar Sprint - MS, 11:30 AM - 2:00 PM**
  - Semifinals
  - Orchard Terrace
  - Inclement weather
  - Prince George’s Exhibition Hall E
- **Prepared Presentation - HS, 11:30 AM - 2:30 PM**
  - Semifinals
  - Chesapeake 1
- **Prepared Speech - MS, 12:30 PM – 3:00 PM**
  - Semifinals
  - Azalea 3
- **Structural Design and Engineering - HS, 1:00 PM – 2:30 PM**
  - Semifinalists stress test
  - National Harbor 2
- **Structural Engineering - MS, 1:00 PM – 2:30 PM**
  - Semifinalists stress test
  - National Harbor 3
Goodwill Amendment

Article IV, Section 2

“Sergeant-at-Arms: It shall be the duty of the sergeant-at-arms to serve in any capacity as directed by the president; to assist in the preparation and control of the meeting place, in the event that a parliamentarian is not appointed by the president; to assist in conducting all meetings according to parliamentary procedure as set forth by the current edition of Robert’s Rules of Order, Newly Revised; to promote goodwill and camaraderie in the organization; and to be available, as necessary, in promoting the general welfare of TSA.”

Add the bold text to the by-laws.

Devin Bunnell

Mike Smoot

Filed by Utah TSA on March 26, 2019
Code of Ethics

Student Attendees

1. “Delegate” shall mean any TSA member (voting or non-voting) attending the national conference. This includes all advisors, parents, guests, etc.

2. There shall be no defacing of public property. Any damages to the property or furnishings in the hotel rooms or building must be paid by the individual(s) or chapter(s) responsible. Delegates must follow facility guidelines for adhering signs, notices, posters, etc. to walls, doors, or any facility surface.

3. Delegates shall keep their advisors informed of their activities and/or whereabouts at all times.

4. Delegates should be prompt and prepared for all activities.

5. Delegates should be financially prepared for all possibilities.

6. Delegates not staying at the official conference hotel shall be off the hotel grounds by curfew or immediately following the last scheduled event.

7. Dates shall be permitted to authorized activities only. Only by permission of chapter advisors will dates be permitted between TSA delegates.

8. No alcoholic beverages, narcotics, firearms, weapons or explosives in any form, shall be possessed by delegates, alumni or other conference attendees at any time, under any circumstances.

9. Smoking or gambling in public will not be permitted since a delegate in TSA attire is officially representing a state and/or national association of TSA.

10. No delegates shall leave the conference hotels (except for authorized events) unless permission has been received from chapter/state advisors.

11. Delegates are required to attend all general sessions and activities assigned, including workshops, competitive events, committee meetings, etc., for which they are registered.

12. Identification badges must be worn on the chest at all times by all persons in conference attendance.

13. Both state and chapter advisors will be responsible for their delegates’ conduct.

14. Delegates violating or ignoring any of the conduct rules will subject their entire delegation to being unseated and their candidates or competitive events participants being disqualified. Individual delegates may be sent home immediately at his or her own expense. Curfews will be enforced (all delegates will be in assigned rooms by the announced times).

15. Casual attire will be acceptable only during specific social functions, as designated.

16. No helium balloons are permitted.

17. The TSA, Inc. Executive Committee reserves the right to dismiss any person from the conference for inappropriate actions.
Advisors

1. Advisors shall conduct periodic meetings with their student delegates and voting delegates for the purpose of reviewing the many conference activities of which they may take advantage, obtaining progress reports, emphasizing time schedules, sharing successes, and overall, to ensure that the students are taking full advantage of the conference and its activities.

2. Advisors shall keep an agenda of their own schedule and give it to their students so that the advisor may be reached during the conference at any time.

3. Each advisor shall be responsible for ensuring that student participants adhere to all conduct practices and procedures as published in this book.

4. The rules, as stated in this Code of Ethics and in the Dress Code are called to your attention for review and apply to advisors and parents as well as students.

Conference Safety and Security

The safety and security of TSA members who attend the conference is of the utmost concern to the governing body of TSA. On site there are security guards provided by the hotel and TSA who work closely with local law enforcement. In addition, daily advisor update meetings provide information on how to report any security issues that may arise. As a necessary precaution TSA enforces the following procedures:

• ALL participants must register for the conference.
• Identification (name badges) must be worn on the chest at all times by all participants during the conference.
• Curfew is at 10:00 PM. After that time an adult must accompany any student/s when outside of assigned rooms.
• The conference is not “open to the public.”

Please be advised that personal items brought to the conference for use at the conference are the sole responsibility of the attendee who chooses to bring the items. If a participant chooses to bring items of value, s/he is responsible for their safekeeping at all times. This includes any item of monetary or personal value, including items used in competitive events. TSA accepts no responsibility for replacement of lost, misplaced, or stolen items and will not replace such items. This policy applies to all attendees and includes the conference management team and CRC members.
Floor Plans

Gaylord National Convention Center

National Harbor Conference Rooms

Ballroom Level

Lobby Level

Lower Atrium

Lower Atrium
Floor Plans

B Ballroom Level, Convention Center

C Ballroom Level, Hotel

D National Harbor Conference Rooms
National TSA Dress Code

Official Conference Attire Guidelines

CONFERENCE ATTENDEES

Everyone who attends the National TSA Conference—including parents, guests, and children—must be registered for the conference. All must comply with the TSA Dress Code policy.* All registrants must wear official conference identification name badges at all times.

REQUIRED COMPETITION ATTIRE

Shirt: official royal blue TSA shirt

Pants or skirt: gray

Shoes: black dress shoes worn with black or dark blue socks, hosiery (optional); open-toed shoes or sandals are acceptable (unacceptable: athletic shoes; flip-flops; military boots; or work boots)

Also required for the middle school or high school level Chapter Team event only (but may be worn for other competitions if preferred by participants):

Blazer: navy blue with official TSA patch

Tie: official TSA tie (males)

Females are not penalized for wearing the official TSA tie to Chapter Team or any other competitive event.

GENERAL SESSION ATTIRE

Shirt: the official TSA shirt (royal blue) is preferred, button-down shirt or a polo/golf shirt (unacceptable: t-shirts; halter tops; tank tops)

Dress, skirt, or pants: (unacceptable: jeans; baggy pants; exterior pocket pants; shorts)

Shoes: dress shoes worn with dark socks, hosiery (optional); open-toe shoes or sandals are acceptable (unacceptable: athletic shoes; flip-flops; military boots; or work boots)

CASUAL ATTIRE

Appropriate T-shirts, shorts, or jeans. Casual attire may not be worn at competitions or General Sessions.

*Registered parents, guests, and children who are not compliant with General Session Attire and who wish to attend the Awards Ceremony, may be asked to sit in a designated section, if permitted entry.

Approved by the TSA, Inc. Board of Directors.
The above supersedes any other dress code prior to November 6, 2017.
The Army has it all—top science and engineering talent, world class research facilities and vital real-world research opportunities. AEOP connects students and educators with exciting, hands on STEM educational opportunities through every phase of their education and career, and at no cost to participants.
The Gaylord Opryland Resort & Convention Center offers guests all the excitement and energy of Music City in one convenient location. Located on the banks of the Cumberland River, the resort features an extraordinary selection of dining, shopping, and recreational activities. The world-famous Grand Ole Opry is located next to the hotel, and other attractions including Gaylord Springs® Golf Links golf course, the General Jackson Showboat, and the Wildhorse Saloon are located within minutes of the property.

A world-class, four-diamond hotel, the Gaylord Opryland welcomes back the Technology Student Association for the 2020 National TSA Conference. The Gaylord Opryland features climate-controlled glass atriums with nine acres of lush indoor gardens, multiple restaurants, a full-service luxury spa and salon, and more. The resort is just minutes away from the Nashville International Airport.

The 2020 National TSA Conference will begin Saturday, June 27th with conference registration and will close with the exciting awards ceremony on Wednesday, July 1st. In between, TSA members can take advantage of leadership opportunities, participate in competitive events, network with fellow TSA members, and build memories that will last a lifetime. Start making plans now to visit Nashville, Tennessee, and join the rest of the Technology Student Association to “Inspire a Shared Vision.”