

June 2021

NATIONAL TSA CONFERENCE

**TOGETHER
TOWARDS
TOMORROW**



2021 NATIONAL TSA CONFERENCE

June 1–June 25, 2021 • TSAweb.org

Together Towards Tomorrow

CONFERENCE PROGRAM

2021 National TSA Conference Conference Program

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2020-2021 National TSA Officers



PRESIDENT
Sean Kuehn
Charles Page HS
Sand Springs, OK



VICE PRESIDENT
Alexander Loney
North HS
Edmond, OK



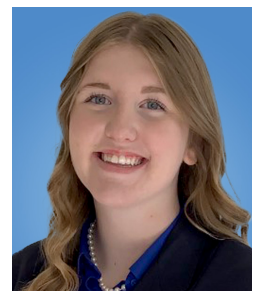
SECRETARY
Priya Gupta
Caesar Rodney HS
Dover, DE



TREASURER
Gowri Rangu
Longview HS
Longview, TX



REPORTER
Dhruv Agarwal
Plymouth Whitmarsh HS
Plymouth Meeting, PA



SERGEANT-AT-ARMS
Alyssa Haider
Dickinson HS
Dickinson, ND

Welcome

to the 2021 National TSA Conference

Greetings National TSA,

On behalf of the entire national officer team, I would like to welcome you to the 2021 National TSA Conference.

While we are all hoping to win a trophy, do not forget the moments that built up to today. Each one of you has spent countless hours on your events and competed at the chapter, regional, and state levels to have the opportunity to be here. Be sure to slow down and appreciate the little moments with your chapter other members because it is those relationships that truly bring us together.

Our conference theme this year, “Together Towards Tomorrow,” represents one of the most important qualities of our organization, our unity. The national TSA conference is always one of my favorite experiences of the year because this is when we gather from all across the country and come together as one TSA community.

Thank you for allowing me to be a part of your TSA experience this year. My time spent serving you on the national level has been unforgettable, serving alongside some incredible people. This year’s team has worked extremely hard all year; I cannot wait for you to enjoy the final project of our term: the national TSA conference.

Again, thank you for an amazing year, and good luck in your competitions!



Sean Kuehn
2020-2021 National TSA President

Keynote Speaker



“More than a Motto”

Mr. Gus White

MD-PhD Student, Graduate Research Assistant
Department of Health Behavior and Policy
Virginia Commonwealth University

Wednesday, June 23, 2021

Mr. Gus White is a former TSA member who served as both a state and national officer. He was a TSA member for seven years. He attended the Chattanooga School for the Liberal Arts and Notre Dame High School. Mr. White served as Tennessee TSA Sergeant-at-arms and Tennessee TSA vice president. In 2012, he was elected to serve as the National TSA Sergeant-at-arms. He continues to serve TSA as an alumnus.

The University of Tennessee graduate is now a third year MD-PhD student at Virginia Commonwealth University in Richmond, Virginia. In addition to his academic coursework, Mr. White is a graduate research assistant. Upon graduation, he plans to pursue a career as a physician-scientist interested in internal medicine and health behaviors.

Conference Activities

Meetings

- **State Advisor Forum**
Wednesday, June 9, 2:00 PM EST
- **TSA, Inc. Corporate Member Meeting**
Thursday, June 10, 4:00 PM EST
- **Council of State Presidents Meeting**
Monday, June 14, 7:00 PM EST

Highlights

(Available June 23-25)

- Leadership
- TSA Topics
- STEM Speakers
- American Cancer Society
- TSA Store

General Sessions

Wednesday, June 23

General Session I

9:00 AM*

The 2021 National TSA Conference will open with the Parade of State Flags recognizing state officers. Tiffany Ashton will perform the National Anthem, and Gus White, MD-PhD Student and Graduate Research Assistant, Department of Health Behavior and Policy and Virginia Commonwealth University, will deliver the keynote address: “More than a Motto”. Special awards and CompTIA stipends will be presented, and the first set of competitive event finalists will be announced with trophies awarded to the top three finalists in each competitive event.

Thursday, June 24

General Session II

9:00 AM*

The second general session of the 2021 National TSA Conference opens with recognizing state delegation presidents. Membership awards, Chapter Advisor of the Year award, and the Technology Honor Society will be presented. CompTIA stipends and another set of competitive event finalists will be announced with trophies awarded to the top three finalists in each competitive event.

Friday, June 25

General Session III

9:00 AM*

The third general session of the 2021 National TSA Conference will introduce the newly elected national TSA officers and Board of Directors for the 2021-2022 school year. We will also thank and say farewell to the 2020-2021 National TSA Officers. CompTIA stipends and the last set of competitive event finalists will be announced with trophies awarded to the top three finalists in each competitive event.

**Conference participants should plan to view the General Sessions at 9:00 AM in their own time zone.*

2021-2022 National TSA Officer Candidates

Campaigning begins Thursday, June 3. Voting takes place Tuesday, June 8. Runoffs will be announced if needed.

Candidates for President



Sarah Lewallyn



Charles Moloney

Candidate for Reporter



Arnav Dhingra



Gowri Rangu

Candidates for Secretary



Esha Bolar

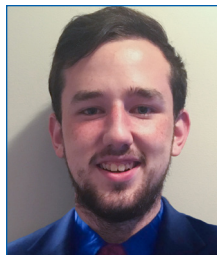


William Collins

Candidates for Vice President



Alyssa Haider



Zachary Palmgren



Thalisa Saldivar

Candidates for Treasurer

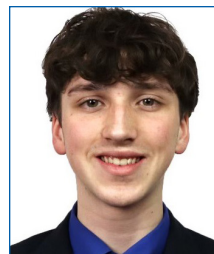


Evan Grove



Rohinee Mattikalli

Candidates for Sergeant-at-Arms



Avery Broggi



Puiyee Kong

2020-2021 Award Recipients

Special Award Recipients

- Honorary Lifetime Achievement Award
Jim Hutson
- William P. Elrod Memorial Scholarship Award
Sydney Coleman
- National TSA Alumni Scholarship Award
Ashley Stokes

2020–2021 State Superlative Membership Awards

- Largest MS Blue CAP Chapter:** Lithonia Middle School, Georgia
- Largest HS Blue CAP Chapter:** Union County Vocational-Technical School, New Jersey
- Largest MS White CAP Chapter:** Foster Middle School, Texas
- Largest HS White CAP Chapter:** Castle View High School, Colorado
- State With the Most Middle School Chapters:** Oklahoma
- State With the Most High School Chapters:** Georgia
- State with the Most Middle School Members:** Oklahoma
- 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:** New York
- State with the Highest High School Membership Growth:** Michigan

Technology Honor Society

Delaware

Priya Gupta
Caesar Rodney HS

Divita Taduvayi
MOT Charter HS

Florida

Bruce Kolettis
Pine Crest HS

Ashlyn Mcginn
Pine Crest HS

Ellis Osborn
Pine Crest HS

Idaho

Amber Graves
Mountain View HS

Kacey Wheeler
Mountain View HS

Kansas

Zachary Palmgren
Basehor-Linwood HS

Maryland

Brianna Charlton
Albert Einstein HS

New Jersey

James Guinee
Howell HS

New Mexico

Silviano Aguilar
School of Dreams
Academy HS

North Dakota

Alyssa Haider
Dickinson HS

Ohio

**Mackenzie
Worthington**
Butler Tech – Lakota
East HS

Oklahoma

Sean Kuehn
Charles Page HS

Gaby Medina
Commerce HS

Ethan Myers
Commerce HS

Pennsylvania

Arnav Dhingra
Downingtown STEM
Academy

Natalie Hyland
Boyertown Area HS

Milind Kankipati
Downingtown STEM
Academy

Zoe Sweet
Daniel Boone Area HS

Manuel Thomas
Downingtown STEM
Academy

Maria Thomas
Downingtown STEM
Academy

Texas

Malcolm Ferguson
Cypress Ranch HS

Isabella Gonzalez
Theodore Roosevelt
HS Engineering
& Technologies
Academy

Nicole Holmberg
Waxahachie HS

Andres Iglesias
Captain John L.
Chapin HS

Seyma Kilic
Theodore Roosevelt
HS Engineering
& Technologies
Academy

Gael Moran
Captain John L.
Chapin HS

Dhruval Rangrej
Waxahachie HS

2020-2021 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

California

Amador Valley HS

Colorado

Castle View HS

Georgia

Carrollton HS

Mountain View HS

Missouri

Marquette HS

Montana

Glacier HS

New Jersey

Cinnaminson HS

New York

DeWitt MS

Tennessee

Northwest MS

Texas

Cypress Park HS

Foster HS

Foster MS

Seven Lakes HS

STISD World Scholars

Sunnyvale HS

Tompkins HS

Virginia

Westfield HS

Washington

Eastlake HS

Goldendale HS

300+ Circle

California

Millikan HS

Delaware

Caesar Rodney HS

Sussex Central HS

Florida

Booker HS

Booker MS

Braden River MS

Buffalo Creek MS

Florida Online School (HS)

Florida Online School (MS)

McIntosh MS

Middleton HS

Milwee MS

North Port HS

Palm Bay Magnet HS

Pine View School

Riverview HS

Riviera MS

Sarasota HS

Sarasota MS

Southeast HS

Turner/Bartels K-8

Venice HS

Georgia

Champion Theme MS

Grayson Technical

Education Program

Harris County Carver MS

Lakeside MS

Lithonia MS

Little Mill MS

300+ Circle

Iowa

Johnston HS

Kentucky

Camp Ernst MS

Missouri

Blue Springs HS

Montana

Bozeman HS

New Jersey

Howell HS

Howell Township MS North

Union County Vocational-

Technical School

North Carolina

Panther Creek HS

Oklahoma

Central Jr HS

Claremore Will Rogers Jr HS

Clyde Boyd MS

Oologah MS

Pennsylvania

Colonial MS

Plymouth Whitemarsh HS

South Carolina

The Center for Advanced

Technical Studies

Tennessee

Fairview MS

300+ Circle

Texas

Alvarado HS

Bridgeland HS

Captain John L. Chapin HS

Carthage HS

Cleburne HS

Cy-Fair HS

Cypress Woods HS

John Dubiski Career HS

Keller Center for Advanced

Learning

McKinney HS

Mesquite HS

Nacogdoches HS

Theodore Roosevelt

HS Engineering &

Technologies Academy

Venus MS

Waxahachie Global HS

Waxahachie HS

West HS

Virginia

Deep Run HS

Wilson Memorial HS

West Virginia

Tyler Consolidated HS

2020-2021 TSA Chapter Advisor of the Year Awards

High School Chapter Advisor of the Year

California

Chaz Lee
Palos Verdes Peninsula HS

Connecticut

Eileen Lastrina
RHAM HS

Delaware

D Morelli
Sussex Central HS

Florida

Keri Kolettis
Pine Crest HS

Georgia

Joe Fuqua
Lambert HS

Indiana

Susie Cunningham
Indiana Academy for
Science, Mathematics and
Humanities

Iowa

Rhys South
Johnston HS

Kansas

Michael Wagner
Olathe North HS

Kentucky

Jenna Gray
ILEAD Academy

Maryland

Erin Marshall
Thomas Sprigg Wootton HS

Mississippi

Sedera Anderson
Neshoba Central HS

Missouri

Christina King
Sullivan HS

Montana

Jesse Gray
Ronan HS

New Jersey

Steve Maietta
Northern Valley Old Tappan

New Mexico

Ronald Richman
Chaparral HS

North Carolina

Brent Curran
Panther Creek HS

North Dakota

Susan Haider
Dickinson HS

Ohio

Angela Elsasser
Great Oaks - Harrison HS

Oregon

Teresa Veach
Ukiah School

Pennsylvania

Jocelyn Long
Downingtown STEM
Academy

Rhode Island

Corinne Gelinas
North Providence HS

Texas

Tanya Snook
West HS

Utah

Anne Culbreath
Copper Hills HS

Virginia

Monica Geiger
Thomas Jefferson HS for
Science and Technology

Washington

Greg Shelton
Juanita HS

West Virginia

Sean Snedden
Hundred HS

Middle School Chapter Advisor of the Year

California

Diana Tompkins
Joan MacQueen MS

Colorado

David Williams
West Jefferson MS

Connecticut

Megan Hislop
Sage Park MS

Delaware

Norman Pierce
Fred Fifer MS

Florida

Luci Coker
Milwee MS

Georgia

Kimberly Acosta
Harris County Carver MS

Indiana

Kim LeFever
South Adams MS

Iowa

Barry Chayet
Perry MS

Kansas

Deborah Jobe
Basehor-Linwood MS

Kentucky

Rebecca Hutchison
Grant County MS

Mississippi

Kemeya Richardson
Cleveland Central MS

Missouri

Michelle Brown
Whitfield School

New Jersey

Christen McCafferty
William R. Satz MS

North Carolina

Jason Wade
Ayden MS

Ohio

Frank Willis
Butler Tech - Lakota Ridge
Junior HS

Oklahoma

Jill Sullins
Edmond Cheyenne MS

Pennsylvania

Sarah Wells
Neshannock Junior HS

Texas

Brooke Reeve
Venus MS

Utah

Michael Smoot
Centennial MS

Virginia

Robert Doolidge
Short Pump MS

Washington

Jeffrey McFadden
Franklin MS

Schedule of Events

All times shown below are Eastern Standard Time (EST). Competitors must adjust for their local time.
Example: 10:00 AM Eastern is 9:00 AM Central; 8:00 AM Mountain; 7:00 AM Pacific

Tuesday, June 1 at 10:00 AM — Friday, June 4 at 6:00 PM

ONLINE EXAM WINDOW OPENS FOR ALL EXAMS

*Exam portal is closed from 12:00am to 3:00am EST for maintenance

- Coding (MS)
- Chapter Team (MS)
- Chapter Team (HS)
- Cybersecurity (MS)
- Forensic Science (HS)
- Forensic Technology (MS)
- Foundations of Information Technology (FIT) (MS)
- IT Fundamentals + Preparation Exam (ITF+) (HS)
- Tech Bowl (MS)
- Technology Bowl (HS)

Tuesday, June 1

Online – Submission portal opens 10:00 AM and closes at 6:00 PM on Tuesday, June 1

- Prepared Speech (MS)
- Software Development (HS)

Online – Challenge portal open at 10:00 AM and closes at 10:00 AM on Thursday, June 3 (48 hours)

- Cybersecurity (HS)

Online – Challenge is released online at 10:00 AM and a PDF submission of the outlines are due by 11:00 AM on Tuesday, June 1

- Essays on Technology Preliminaries (MS)

Online – Challenge is released online at 4:00 PM and PDF submission is due by 6:00 PM on Tuesday, June 1

- Coding (HS)

10:00 AM – 1:00 PM

- Biotechnology Semifinals (MS)
- Biotechnology Design Semifinals (HS)

2:00 PM – 4:00 PM

- Digital Video Production Semifinals (HS)

Wednesday, June 2

10:00 AM – 1:00 PM

- Career Prep Semifinals (MS)
- Animatronics Semifinals (HS)

Wednesday, June 2 (continued)

1:00 PM – 4:00 PM

- Construction Challenge Semifinals (MS)

Online – Challenge is released online at 3:00 PM and hyperlink submission is due by 3:30 PM on Wednesday, June 2

- Extemporaneous Speech (HS)

Thursday, June 3

Online – Semifinalist challenge topic is released online at 4:00 PM and the essay portal will close by 5:00 PM on June 3, on Answer Write

- Essays on Technology Semifinals (MS)

10:00 AM – 1:00 PM

- Mechanical Engineering Semifinals (MS)

10:00 AM – 2:40 PM

- Engineering Design Semifinals (HS)

3:30 PM – 5:30 PM

Presentations (Online challenge released at 1:00 PM and due by 3:00 PM on Thursday, June 3 online)

- Photographic Technology Semifinals (HS)

Online – Assigned topic is released online at 6:00 PM and hyperlink submission is due by 6:00 PM on Friday, June 4 (24 hours)

- Challenging Technology Issues (MS)

Online – topic and articles are released online at 3:00 PM and PDF submission is due by 5:00 PM on Thursday, June 3

- Essays on Technology (HS)

Online – Challenge is released online at 10:00 AM and hyperlink submission is due by 10:00 AM on Friday, June 4 (24 hours)

- Prepared Presentation (HS)

Friday, June 4

10:00 AM – 3:40 PM

- Children's Stories Semifinals (HS)

10:00 AM – 1:00 PM

- Children's Stories Semifinals (MS)

12:50 PM – 2:00 PM

- Data Science and Analytics Semifinals (MS)

Schedule of Events

All times shown below are Eastern Standard Time (EST). Competitors must adjust for their local time.
Example: 10:00 AM Eastern is 9:00 AM Central; 8:00 AM Mountain; 7:00 AM Pacific

Monday, June 7

10:00 AM – 3:40 PM

- Board Game Design Semifinals (HS)

10:00 AM – 12:00 PM

- Community Service Video Semifinals (MS)

2:30 PM – 4:30 PM Interviews

(Online challenge released at 12:00 PM and due by 2:00 PM on Monday, June 7 online)

- Digital Photography Semifinals (MS)

Online – Challenge is released online at 4:00 PM and PDF submission is due by 6:00 PM on Monday, June 7 online

- Promotional Design (HS)

Tuesday, June 8

10:00 AM – 1:00 PM

- Fashion Design and Technology Semifinals (HS)
- Medical Technology Semifinals (MS)

2:00 PM – 6:00 PM

- Future Technology Teacher Semifinals (HS)

Online – Challenge is released online at 2:00 PM and PDF submission is due by 4:00 PM on Tuesday, June 8

- Coding Semifinals (MS)

Wednesday, June 9

Online – Semifinals list is posted online at 10:00 AM; the submission portal for semifinal videos opens and is due by 6:00 PM on Wednesday, June 9

- Inventions and Innovations Semifinals (MS)

Wednesday, June 9

10:00 AM – 1:00 PM

- Scientific Visualization (SCVIS) Semifinals (HS)

10:00 AM – 2:40 PM

- Off the Grid Semifinals (MS)

2:00 PM – 5:00 PM

- STEM Animation Semifinals (MS)

Thursday, June 10

Online – Challenge is released online at 10:00 AM and is due by 10:00 PM on Friday, June 11 (36 hours)

- On Demand Video (HS)

Online – Challenge is released online at 5:00 PM and PDF submission is due by 6:00 PM on Thursday, June 10

- Forensic Science (HS)

10:00 AM – 3:40 PM

- Chapter Team Semifinals (MS)
- Chapter Team Semifinals (HS)

3:30 PM – 6:30 PM

- Video Game Design Semifinals (MS)

Online – Challenge is released online at 11:00 AM and a PDF submission is due by 11:00 AM on Friday, June 11 (24 hours)

- Technical Design (MS)

Friday, June 11

10:00 AM – 12:00 PM

- Cybersecurity Semifinals (MS)

10:00 AM – 1:00 PM

- Architectural Design Semifinals (HS)

2:00 PM – 5:00 PM

- Video Game Design Semifinals (HS)

Online – Challenge is released online at 2:00 PM and PDF submission is due by 3:00 PM on Friday, June 11

- Promotional Marketing Semifinals (MS)

Monday, June 14

10:00 AM – 1:00 PM

- Website Design Semifinals (MS)
- Transportation Modeling Semifinals (HS)

2:00 PM – 5:00 PM

- Webmaster Semifinals (HS)

Online – Challenge is released online at 2:00 PM and hyper-link submission is due by 2:30 PM on Monday, June 14

- Leadership Strategies (MS)

Schedule of Events

All times shown below are Eastern Standard Time (EST). Competitors must adjust for their local time.
Example: 10:00 AM Eastern is 9:00 AM Central; 8:00 AM Mountain; 7:00 AM Pacific

Tuesday, June 15

Online – Semifinalists are posted by 10:00 AM; the submission portal for semifinal videos opens and is due by 6:00 PM on Tuesday, June 15

- Mass Production Semifinals (MS)

10:00 AM – 1:00 PM

- Geospatial Technology Semifinals (HS)
- Forensic Technology Semifinals (MS)

1:00 PM – 4:00 PM

- Music Production – Semifinals (HS)

Wednesday, June 16

10:00 AM – 12:00 PM

- Microcontroller Design Semifinals (MS)

10:00 AM – 3:40 PM

- Data Science and Analytics Preliminaries (HS)

Online – Challenge is released online at 2:00 PM and PDF submission is due by 4:00 PM on Wednesday, June 16

- Computer–Aided Design (CAD) Foundations (MS)

Thursday, June 17

10:00 AM – 12:40 PM

- Technology Bowl Semifinals Oral Round 1 (HS)
- Tech Bowl Semifinals Oral Round 1 (MS)

2:00 PM – 3:20 PM

- Technology Bowl Semifinals Orals Quarterfinals (HS)
- Tech Bowl Semifinals Orals Quarterfinals (MS)

3:20 PM – 4:00 PM

- Technology Bowl Semifinals (HS)
- Tech Bowl Semifinals (MS)

4:00 PM – 4:40 PM

- Technology Bowl Oral Final/Consolation Game (HS)
- Technology Oral Final/Consolation Game (MS)

Online – Portal open for summary of references PDF submissions and topic is released at 10:00 AM, and closes at 12:00 PM on Thursday, June 17

- Debating Technological Issues (HS)

Thursday, June 17 (continued)

Online – Portal opens for semifinal PDF submissions at 10:00 AM and closes at 6:00 PM on Friday, June 18

- Data Science and Analytics Semifinals (HS)

Friday, June 18

10:00 AM – 11:40 AM

- Debating Technological Issues – Debates (HS)

1:00 PM – 3:00 PM

- Debating Technological Issues – Semifinals (HS)

Online – Challenge is released online at 1:00 PM and PDF submission is due by 5:00 PM on Friday, June 18

- Computer–Aided Design (CAD) Architecture (HS)

Monday, June 21

Online – Challenge is released online at 10:00 AM and PDF submission is due by 2:00 PM on Monday, June 21

- Computer–Aided Design (CAD) Engineering (HS)

Wednesday, June 23

9:00 AM*

- General Session I

Thursday, June 24

9:00 AM*

- General Session II

Friday, June 25

9:00 AM*

- General Session III

**Conference participants should plan to view the General Sessions at 9:00 AM in their own time zone.*