

* READ M.S. READ *

PA-TSA Region 8 Competitions at Northern Cambria Elementary/Middle School Saturday, February 3, 2018

All NEW and RETURNING Chapters must be officially registered with National TSA by January 15, 2018 to participate in the PA-TSA Region 8 competitions. This is part of the state By-Laws. There will be no exceptions.

There will be **NO** on-site registration. Students may drop contests, but no chapter may add contests or add students to contests. Following national and state registration methods, you must register your chapter for team events; but the individuals participating in the events will be declared at contest sign-in and not on the registration form. Be sure to check your registration form carefully before registering your contestants. The registration deadline is **11:59 pm, Friday, January 19, 2018**.

- Registration is **\$8.00 per student**. Send the **2018 PA-TSA Region 8 Conference High School Chapter Registration Payment Form** and payment-in-full to:

Park Forest Middle School
2180 School Drive
State College, PA 16803.

Attn: Jeff Seamans

All checks shall be made payable to **PA-TSA Region 8**. Payment-in-full **MUST** accompany the completed **2016 PA-TSA Region 8 Conference High School Chapter Registration Payment Form** and be "In Jeff's Hands" by **Friday, January 19, 2018**. *(Yes, send the form, as well. We shall have it as a back-up in case of "Technical Difficulties".)*

- **Food and Beverages** will be available for purchase in the school cafeteria: **Grab & Go Breakfast- \$1.50** (muffin or breakfast wrap with fruit and the choice of milk or juices) and **Lunch - \$5.00** (choice of chicken patty sandwich and fries, hamburger and fries, or a slice of pizza and fries; including a salad, as well as fresh fruit, and milk or juice). Other snack items will also be available for purchase. Breakfast will be served from 8:00 to 9:30 a.m. and Lunch will be from 11:00 a.m. to 1:00 p.m. Please remind students that food **MUST** not leave the café at any time during the event.
- **Middle School Chapters** are reminded we will be following the NEWLY REVISED rules found in the **2018-2019 MIDDLE SCHOOL - NATIONAL TSA COMPETITIVE EVENTS GUIDE/PDF**.
- **L.E.A.P. Response** will be required for ALL Events including Tech bowl and Problem Solving. Review "School Scene" Fall Edition, from National TSA Officers for details.

- **ALL MAIL IN COMPETITIONS SHOULD LABEL THEIR DOCUMENTS WITH STUDENT ID AND NAME OF EVENT. NO school name or student name should be identified.**
- **ALL FLASH DRIVES SHOULD BE PLACED IN A ZIP-LOCK BAG WITH STUDENT ID AND NAME OF EVENT**
- **CAD Foundations:** Northern Cambria Middle School, will provide PC computers with Autodesk software for these events. Questions concerning types of software can be directed to Ed Link – elink@ncsd.k12.pa.us If your school uses a different platform and/or software program, you MUST bring your own equipment. Please E- mail Ed Link if you are bringing your own computers. All CADD problems will be judged using the monitor screen only. Students must bring a USB drive to back up their projects while in competition.
- **Coding: will be Test Only**
- **Communication Challenge: Portfolio Only. There Will Be No On-Site Competition.**
- **Delta Dart:** Pre- built planes – NO on site building.
- **Dragster:** Dragster specifications change (USE THE 2018 VERSION). Theme for 2018 is all four wheels must be completely exposed. No part of the body may cover any part of front or back wheels. Also, rear wheels must meet these specs for 2018 –
 - ✓ Diameter: 30mm-40mm
 - ✓ Width 12mm- 18mm) See National Website-Competitions/Updates for specifications.
 - ✓ PA-TSA Region 8 will supply All CO2 cartridges.
- **Electrical Applications: TEAM EVENT – 2 members/team. Students will take written test. 5 Semifinalist will build circuit onsite. BRING TOOL KIT FOR SEMI-FINALIST.**
- **Flight:** Submit one prebuilt plane with documentation upon arrival. Suggested that plane be protected by a protective container.
- **Forensic Technology: 4 Semifinalist (based on test score) will investigate a staged crime scene on site. BRING TOOL KIT FOR SEMI-FINALIST.**
- **Jr. Solar Sprint:** 3 timed runs will be performed on auditorium stage, must have open eye hooks for competition. Closed eyes will not be raced. 2 AA batteries will be provided.
- **PA-Digital Video:** Students must bring all video production equipment and laptop for editing footage.
 - ✓ Final Video Must be Submitted on Flash Drive

- **Structural Engineering:** Prebuilt structures will be dropped off. Structures are not built on site.
 - ✓ Prior to the regional competition, the team should Research truss and structural framing designs; use the research to develop and engineer a design for a section of a pedestrian bridge.
 - ✓ Please review the illustration that is provided with 2018 Structural Engineering Problem Statement found at the following link:
 - ✓ <http://tsaweb.org/sites/default/files/2017-2018%20Middle%20School%20Structural%20Engineering%20Problem%20Statement.pdf>
 - **REQUIREMENTS FOR STRUCTURAL CHECK-IN:**
 - ✓ 1. Completed model structure
 - ✓ 2. Three-view Orthographic Projection drawing
 - ✓ 3. Verification form
 - ✓ 4. Assessment form
 - ✓ LEAP Response
 - **System Control Technology :** Advance Notice of the Problem for (level I), will be sent out to **the Chapter Advisor(s) by November 13, 2017, by Region 8 Coordinator, Brandt Hutzel.** No on-site construction permitted! All submissions will be quarantined upon arrival.
 - **Tech Bowl – Written** (ALL levels) will be given in the morning. ***Preferred that entire team take test together.*** **KNOW INDIVIDUAL AND TEAM NUMBERS** There will be a “head-to-head” (oral) competition for the top four teams **ONLY** in the afternoon. (Dress code “B” Professional for oral competition)
 - **Website Design:** All entries must be posted to the web, (with the site location (URL) e-mailed to Ed Link at elink@ncsd.k12.pa.us,) no later than **Monday, January 22, 2018.**
 - **Interviews:** Students should be prepared for interviews in the following competitive events:

Bio Technology	Construction Challenge	Mass Production
Medical technology	Off The Grid	PA-Materials Process
PA-Safety Illustration	PA-Logo Design	
- Interviews **WILL NOT** be scheduled unless requested by the judges for that event. *Again, competitors in these events should be prepared for the possibility of an interview. (Dress Code)*

➤ **Mail in Events:**

*Children's Stories	Community Service Video	Digital Photography
Environmental Engineering	Essays on Technology	Promotional Marketing
STEM Animation	Technical Design	Video Game Design
Website Design	PA-Snapshot	

ALL above events must be submitted by **MAIL, E-MAIL, OR SHARED GOOGLE DRIVE** and **Postmarked No Later Than Monday, January 22, 2018 or time stamp 11:59PM** to:

Northern Cambria High School

813 35th Street

Northern Cambria PA 15714

Attn: ED LINK

Email: elink@ncsd.k12.pa.us

Shared: elink@ncsd.k12.pa.us

➤ **Sign-up events:**

Career Prep	Inventions and Innovations	Microcontroller Design
Challenging Technical Issues	Leadership Strategies	Prepared Speech
Chapter Team	Mechanical Engineering	

ALL the above events will require students to sign up prior to 9:30 for an interview and/or presentation time. Signup sheets will be placed on the door that is listed in the program. LEAP RESPONSE documents will be collected by judges at this time.

- Ribbons will be awarded for First place, Second place and Third place. Qualifiers beyond Third place will be based on the total contestants per contest. See the on-line **Pennsylvania TSA Handbook** for details.
- Project feedback is very valuable to the students. Please encourage students to include the **Feedback forms** with their projects, binders etc...Feedback sheets are available on the Region 8 website. (THIS SHEET IS **DIFFERENT** from the judge's evaluation sheet).