

2013-2014 New Jersey TSA Executive Committee

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Anthony Graybush	Vice President	Freehold Twp. High School
Claudia Jiang	Secretary	High Technology High School
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James Gliem	Parliamentarian	Howell High School

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Ms. Melissa Parr	Clearview Regional High School
Mr. Thomas Jennings	Freehold Twp. High School
Mr. Robert Dennis	High Technology High School
Ms. Sherry Roses	Howell High School
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State Regional Coordinators

Mr. John McConnell	Stockholm, NJ	Northern Regional
Ms. Sherry Roses	Howell High School	Southern Regional

State Advisor and Corporate Member

Ms. Alison Goeke, Center for Excellence in STEM Education, Department of Technological Studies, School of Engineering, The College of New Jersey

Competitive Event Coordinator

Mr. Henry Harms, Center for Excellence in STEM Education, Department of Technological Studies, School of Engineering, The College of New Jersey

Project Administrator

Ms. Michelle Ordini, Center for Excellence in STEM Education, Department of Technological Studies, School of Engineering, The College of New Jersey

Business Administrator

Ms. Jeanette Vega, Center for Excellence in STEM Education, Department of Technological Studies, School of Engineering, The College of New Jersey

Forward

The diverse competitive events that are listed within this booklet are open to TSA chapters affiliated through registration with the New Jersey state office of TSA, completed by January 20, 2014. The High School State Conference will be held at The College of New Jersey on Wednesday April 2, 2014.

How this booklet works

The *NJ Supplement* works in conjunction with the National TSA Competitive Events Guide found on the High School Competitive Events CD, which should be received 2-4 weeks after affiliation with the National TSA Office has taken place.

This booklet presents the competitive events offered at the NJ State Conference in alphabetical order as well as the maximum number of participants or teams permitted to compete from each chapter. Each New Jersey competitive event in this booklet lists only the modifications from the National guidelines. Substitute the NJ modification in this booklet for the number or letter on the National guidelines to ensure that your chapter meets the guidelines for the NJ Competitive Events.

Competitive Event Categories

Competitive Events are organized according to the requirements for student participation in those competitions. There are three categories: **On-Site, Pre-Conference and Static**.

"On-site Events" require student participation on conference day. Some On-Site Events may even include components that must be completed and submitted prior to conference day. Because of the time commitment involved, students may participate in only one On-Site Event (and no more than four total events).

"Pre-Conference Events" require that entries be submitted prior to the conference, on a designated submission date established by NJ TSA. These entries are judged days prior to the conference and put on display the day of the conference. Some Pre-Conference events may have components or presentations that also take place the day of the conference.

"Static Events" require students to submit entries on conference day, however, students are not required to remain with their entries or make presentations. Static Events usually consist of students creating a display or prototype. These entries are checked-in the morning of the conference in the designated event room listed in the conference program. Judging takes place behind closed doors. After judging is finished, all entries are put on display for the remainder of the conference day.

Please be sure to read all sections of the Supplement carefully!

It is the hope of the NJ TSA Executive Committee that this guide will enable teachers, advisors, students and competitive event judges to be better prepared for participation at the State Conference this spring.

Any questions may be directed to Ms. Alison Goeke, NJ TSA State Advisor at (609)771-3244 or <u>goeke2@tcnj.edu</u> or Henry Harms, NJ TSA Competitive Event Coordinator, at <u>harms@tcnj.edu</u>.

General Rules Governing Competitive Events

I. HIGH SCHOOL EVENTS

The officially approved Level II New Jersey TSA Competitive Events for high school are:

ON-SITE	PRE-CONFERENCE	STATIC
Animatronics 2 teams per chapter	Career Preparation 2 individuals per chapter	Architectural Renovation 1 individual or team per chapter
Biotechnology Design 1 team per chapter	Computer-Aided Design (CAD), 2D, Architecture 1 individual per chapter	Manufacturing Prototype 2 teams per chapter
Chapter Team 1 team of 6 members per chapter	Computer-Aided Design (CAD), 3D, Engineering 1 individual per chapter	System Control Technology 1 team of 3 per chapter
Debating Technological Issues 1 team of 2 members per chapter	Computer Numerical Control (CNC) Production 1 team of 2 members per chapter	
Engineering Design 1 team of 3-5 members per chapter	Desktop Publishing 1 individual per chapter	
Essays on Technology 1 individual per chapter	Digital Video Production 1 team per chapter	
Extemporaneous Speech 1 individual per chapter	Dragster Design 2 individuals per chapter Top 16 cars are raced on conference day	
Flight Endurance 1 individual per chapter	Fashion Design 2 teams of 2-4 members per chapter Runway show takes place on conference day	
Future Technology Teacher 2 individuals per chapter Binder submitted Pre-Conference	Music Production 1 team per chapter	
Prepared Presentation 1 individual per chapter	On Demand Video 1 team of 2 or more members per chapter	
Structural Engineering 1 team of 2 per chapter	Open Source Software Development 2 teams of 2-5 members per chapter	
Technical Sketching and Application 2 individuals per chapter	Photographic Technology 1 individual per chapter	
Technology Bowl 1 team of 3 per chapter	Promotional Graphics 2 individuals per chapter	
Technology Problem Solving 1 team of 2 per chapter	SciVis 1 team per chapter	
VEX Robotics 1 team of up to 6 members per chapter	Transportation Modeling 2 individuals per chapter	
	Video Game Design 1 team per chapter	
	Webmaster 1 team of 3-5 members per chapter	

II. PROJECT SUBMISSION

- A. <u>On-site</u> events require students to submit entries, make presentations and/or participate/compete in activities *at* the conference.
- B. <u>Static events</u> require students to submit a display or prototype the day of the conference, however, there is no presentation component along with the entry.
- C. <u>Pre-Conference</u> events require projects to be submitted and judged *prior to* the conference
 - 1. Pre-Conference entries mailed must be received by March 18, 2014.

Send to: NJ TSA/Alison Goeke The College of New Jersey 2000 Pennington Rd Armstrong 103 Ewing, NJ 08628

Please call (609)771-3244 or email (<u>tsa@tcnj.edu</u>) the NJ TSA office to indicate description/quantity of items being mailed and expected delivery date.

- Entries dropped off at the NJ TSA office at The College of New Jersey must be received by March 18, 2014. Please call (609)771-3244 or email (<u>tsa@tcnj.edu</u>) the TSA office to arrange time for delivery.
- Entries dropped off at the Northern NJ site (NJ TSA Northern Regional Office, 16 Deer Trail Lake Rd., Stockholm, NJ 07460) must be received by March 17, 2014. Please call John McConnell at 973-903-1970 or email him at johnsmcconnell@gmail.com to arrange time for delivery.
- Items received after these dates may not be included in competitions.
- Mailed deliveries should include provision for obtaining proof of delivery.
- Packages should include a label or packing slip describing contents.

III. PARTICIPATION IN COMPETITIVE EVENTS

- A. TSA members may only register and participate in **ONE On-site event**, and no more than **FOUR total events**.
- B. Students must be registered at the state conference in order to enter and become finalists/winners in a competition. NO ON-SITE OR LATE REGISTRATIONS WILL BE ACCEPTED.
- C. No substitutions will be accepted after registration closes, or at the conference. Substitutions in team events will be accepted only from pre-registered applicants, and only under extenuating circumstances.

- D. No school or individual names labeled on projects except for Webmaster and Career <u>Preparation</u>, which require school information. Otherwise, only ID#'s are to be used. Upon registering students online, they are automatically assigned an ID#. This number needs to be labeled on every piece of a project/entry (i.e. binders, CD's/DVD's, models, displays, copyright/release forms, etc.).
- E. All video/electronic files (e.g. Music Production, Video Game Design, etc.) become the property of NJ TSA. Please be sure to make a copy for yourself before the project is submitted.
- F. Projects/entries are picked up at the time stated in the conference program and or event display room. All entries not accounted for will be discarded the following day if no arrangements have been made with the NJ TSA office otherwise.
- G. Audio visual equipment will be provided for competitive events that require it.
- H. NJ TSA is not responsible for compatibility issues with electronic files. Judges will not be permitted to install programs to view files.
- I. Proper procedures for citing material taken from other sources must be followed as outlined in specific competitive event guidelines. Copyright procedures, checklist and forms must be completed and submitted with entries when necessary.
- J. No electronic communication devices of any kind are permitted during competitions and will result in disqualification.
- K. No one will be permitted to leave a test event and return unless otherwise instructed by judges.
- L. The maximum size of a team is 6 members, unless otherwise designated in a competition's eligibility guideline.
- M. In addition to the information found in the NJ Supplement, participants are responsible for knowing any updates, changes or clarifications that are made to competitive events prior to participation. This information is posted on both the National TSA and NJ TSA websites. It is crucial that students check the Updates and Clarifications page of BOTH the NJ and National TSA websites. DIFFERENT information is posted on each site.

IV. COMPETITIVE EVENTS ATTIRE

ALL STUDENTS ATTENDING THE CONFERENCE **MUST** wear either official TSA or business-like attire. Your cooperation with this policy will assist in providing a positive image for the organization and its members. *For more info go to: <u>http://www.tsaweb.org/Dress-Code</u>*

NOTE: All students participating at the 2014 National TSA Conference will be required to wear the <u>Official TSA Shirt (royal blue)</u>.

A. Official TSA Attire:

Blazer: navy blue with official TSA patch Tie: scarlet red imprinted with official TSA logo (for males only) Shirt or blouse: Official TSA Shirt (royal blue) (A white button-down with turn down collar may be substituted for the Official TSA Shirt at the NJ State Conference) Pants or skirt: light gray Dark socks: males only (black or dark blue) Shoes: black dress shoes (unacceptable: athletic shoes, combat or work boots) Sandals: females only may wear black open toe shoes or sandals

- Business-like attire is considered to minimally include: collared shirt/blouse long pants (no shorts or jeans) dresses/skirts socks/hosiery appropriate footwear
- C. The official NJ TSA or National TSA Polo Shirt may be substituted for a collared shirt/blouse.

Students NOT wearing official TSA or business-like attire <u>will lose 20 points from</u> <u>total score of each event entered and will not be granted entry into the awards</u> <u>ceremony.</u>

A 20 point deduction will also result from the wearing of hats.

All individuals attending the awards ceremony <u>must</u> present their official State Conference ID Badge provided to them at registration. Anyone not in possession of their badge will not be admitted to the Awards Ceremony.

V. PROPERTY DAMAGE OR LOSS

The College of New Jersey and TSA are not responsible for damage to or loss of property brought to the conference. Please remind students there is no need for them to bring any personal items such as laptops to the conference and that their personal belongings are their sole responsibility that they should not be left behind in any location on campus.

VI. SCHOLARSHIPS AND AWARDS

New Jersey TSA Scholarship

\$500 scholarship supports the mission of TSA by encouraging NJ TSA members to continue their education.

<u>Criteria</u>

- Be a senior and have participated in an active TSA chapter for a minimum of two consecutive years.
- Served or currently serving as a TSA officer at the local, state and/or national level for a minimum of one academic year.
- Attend and participate in at least two TSA conferences at the state level.

Application must include:

- A signed cover letter containing:
 - 1. A detailed description of the applicant's involvement in TSA based on the above criteria
 - 2. A list of technology education engineering courses completed and in progress.
 - 3. SAT score and/or ACT score
 - 4. GPA (4.0 scale) and if available high school class rank (indicate how many in class)

- No more than three letters of reference, one of which must come from a technology education teacher.
- A single-spaced, one page typed essay on his or her career plans.

Application must be submitted by 5:00pm on March 18, 2014 to: Alison Goeke, State Advisor New Jersey Technology Student Association The College of New Jersey 103 Armstrong Hall, PO Box 7718 Ewing, NJ 08628-0718

TSA Achievement Program

The TSA Achievement Program (bronze, silver, gold awards) is designed to motivate and recognize student members for high effort in a school's technology education program. Bronze, silver, and gold pins will be awarded at the State Conference. Please provide Alison Goeke (goeke2@tcnj.edu/Fax#609-771-3330) with a list of any award winners and their Activity Resumes by 5:00pm on March 18, 2014. Go to http://www.tsaweb.org/Student-Achievement-Awards to view and print forms.

TSA Technology Honor Society

The TSA Technology Honor Society recognizes TSA members who excel in academics, leadership, and service to their school and community. The TSA Technology Honor Society is (1) an opportunity for student members to be recognized for their efforts and (2) designed to recognize TSA members who exemplify the high ideals of academics. Go to http://www.tsaweb.org/Student-Achievement-Awards to view and print forms. Please send completed forms to Alison Goeke (goeke2@tcnj.edu/Fax#609-771-3330) by *5:00pm on March 18, 2014*.

Johnson & Wales University

Scholarships will be awarded to 1st, 2nd and 3rd Place winners in the following events:

- Computer-Aided Design 2D, 3D
- Promotional Graphics
- Technical Sketching & Applications
- Webmaster

Scholarship amounts for use at Johnson & Wales are as follows:

1 st place winner	\$1000
2 nd place winner	\$750
3 rd place winner	\$500

VII. IMPORTANT DATES AND DEADLINES

January 27, 2014

- State Conference Registration OPENS
- Design Problems posted on NJ TSA website (<u>http://njtsa.pages.tcnj.edu/</u>)

February 27, 2014

• On Demand Video theme posted at 5pm on NJ TSA website (http://njtsa.pages.tcnj.edu/)

March 4, 2014

• On Demand Video entries must be received at the NJ TSA office or postmarked by 5pm

March 12, 2014

• State Conference Registration CLOSES at 5pm (absolutely no changes can be made after this time).

March 17, 2014

• All Pre-Conference entries delivered to the Northern NJ Drop-Off Site must be received.

March 18, 2014

• All Pre-Conference entries must be received at the NJ TSA office.

March 18, 2014

• NJ TSA Scholarship, Achievement Award, Technology Honor Society and State Officer Nominations must be received at the NJ TSA office by 5pm.

April 2, 2014

• NJ TSA High School State Conference, The College of New Jersey

June 27-July 1,2014

National TSA Conference, Washington DC (National Harbor, MD)

Plan now to attend the

36th Annual National TSA Conference June 27-July 1, 2014 Gaylord National Resort Washington DC (National Harbor, MD) Theme: *"The Spirit of Innovation"*

Level II – High School Events

Animatronics On-Site Event

	No obongo
OVERVIEW:	No change
PURPOSE:	No change
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ELIGIBILITY:	A. 2 teams per chapter
	B. All teams will give a presentation up to 5 minutes in length. There is a
	limit of three (3) representatives per team for the presentation.
	innit of three (3) representatives per team for the presentation.
TIME LIMITS	No change
PROCEDURE:	No change
REGULATIONS:	No change
EVALUATION:	No change.
	No school or individual names labeled on projects; only ID#'s are to
	be used. Upon registering students online, they are automatically assigned
	an ID#. This number needs to be on student projects.

Architectural Renovation

Static Event

2014 Design Problem: <u>http://www.tsaweb.org/Themes-and-Problems</u>

OVERVIEW:	No change
PURPOSE:	No change
ELIGIBILITY:	1 individual or team per chapter
TIME LIMITS	No change
PROCEDURE:	C. No semifinalists. Winners are announced at Awards Ceremony.
	Delete D & E. No interview.
REGULATIONS:	No change
EVALUATION:	Evaluation is based on 220 points earned for the notebook, the design
	and the model. No interview.
	No school or individual names labeled on projects; only ID#'s are to
	be used. Upon registering students online, they are automatically
	assigned an ID#. This number needs to be on student projects.

10

Biotechnology Design On-Site Event

2014 Area of Focus: "The Role of Biotechnology in Water and Waste Technology"

OVERVIEW:	No change
PURPOSE:	No change
	<u> </u>
ELIGIBILITY:	A. 1 team per chapter.
	B. No semifinalists. All teams give presentation.
	B. No semifinalists. All teams will give a presentation up to 5 minutes in length.
PROCEDURE:	C. No semifinalists. A list of all times for all team presentations will be listed in random order and posted.
	D. (2) Representatives from each team report to event area at the time posted for their multimedia presentation.
	E. Remove Semifinalists and replace it with each team representatives.
	Up to five (5) minutes will be provided for the presentation.
REGULATIONS:	E. No semifinalists. Each team must be prepared to participate in the
	semifinalist interview and give a brief multimedia presentation which
	explains the team's selection of the problem and its solution and is not to
	exceed the (5) five minutes. Evaluators then ask questions.
	F. A computer for the multimedia presentation will be provided by NJ TSA. Teams must bring their presentation on a removable device such as CD,
	DVD, or flash drive.
EVALUATION:	Evaluation is based on documentation, the display, and the
	presentation/interview. No semifinalists. All teams give presentation.
	No school or individual names labeled on projects; only ID#'s are to be used. Upon registering students online, they are automatically assigned an ID#. This number needs to be on student projects.

Career Preparation

Pre-Conference Event

2014 Research each of the careers:

- Meteorologist
- Software engineer
- Construction project manager

OVERVIEW: No semifinalists. Winners announced at the Awards Ceremony. No on-site interview. Resumes and cover letters submitted Pre-Conference. PURPOSE: No interview. Resumes and cover letters submitted Pre-Conference. No semifinalists. Winners announced at the Awards Ceremony. ELIGIBILITY: 2 individuals per chapter TIME LIMITS A. Resumes and cover letters are submitted Pre-Conference. Delete B. PROCEDURE: B. Resumes and cover letters submitted Pre-Conference.
No on-site interview. Resumes and cover letters submitted Pre-Conference. PURPOSE: No interview. Resumes and cover letters submitted Pre-Conference. No semifinalists. Winners announced at the Awards Ceremony. ELIGIBILITY: 2 individuals per chapter TIME LIMITS A. Resumes and cover letters are submitted Pre-Conference. Delete B.
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Delete B.
Delete B.
BROCEDURE: R. Resumes and cover letters submitted Bro Conference
DDOCEDIDE: D. Documos and covor lattors submitted Dro Contoronco
PROCEDURE. D. Resumes and cover letters submitted Pre-Comerence.
Delete C-E.
REGULATIONS: A. Entries are submitted Pre-Conference.
D-E. There is no on-site component.
EVALUATION: Based on 80 points. No interview.

Chapter Team

On-Site Event No semifinals. All teams make the oral presentation. OVERVIEW: PURPOSE: No change 1 team of six (6) members per chapter. Team members do not have to be **ELIGIBILITY:** elected officers of the local chapter. No semifinalists. All teams take the written test and participate in the oral presentation. TIME LIMITS B. No semifinalists. Time-related penalties apply. ATTIRE: Official TSA Attire is required for this event. For details, please see pages 6-7 of this document. **PROCEDURE:** C-D. All teams will make the oral presentation. **REGULATIONS:** I. No semifinalists. All teams participate in the oral presentation. **EVALUATION:** No semifinalists. All teams will be evaluated according to the criteria on the official rating form.

Computer-Aided Design (CAD), 2D, Architecture <u>Pre-Conference Event</u> 2014 Design Problem will be posted on the NJ TSA website on January 27, 2014

OVERVIEW:	No change This design problem will be posted on the NJ TSA website on January 27, 2014.
PURPOSE:	No change
ELIGIBILITY:	1 individual per chapter
TIME LIMITS	Delete A-C. Entries must be completed during the school year and are submitted Pre-Conference. There is no on-site component. Design problem will be posted on the NJ TSA website on January 27, 2014.
PROCEDURE:	Delete A-H. Entries are submitted Pre-Conference. Entries are picked up at the time and place stated in the conference program.
REGULATIONS:	 Delete A-D. Delete F-G. Designs submitted on a maximum paper size of 24" x 36" or smaller sheets mounted on a 24" x 36" sheet with no overlapping papers. No school or individual names labeled on projects; only ID#'s are to be used. Upon registering students online, they are automatically assigned an ID#. This number needs to be on student projects.
EVALUATION:	Delete "on screen."

Computer-Aided Design (CAD), 3D, Engineering <u>Pre-Conference Event</u> 2014 Design Problem will be posted on the NJ TSA website on January 27, 2014

OVERVIEW:	No change
	This design problem will be posted on the NJ TSA website on January 27,
	2014.
PURPOSE:	No change
ELIGIBILITY:	1 individual per chapter
TIME LIMITS	Delete A-C. Entries must be completed during the school year and are
	submitted Pre-Conference. There is no on-site component.
	Design problem will be posted on the NJTSA website on January 27, 2014.
PROCEDURE:	Delete A-H. Entries are submitted Pre-Conference.
	Entries are picked up at the time and place stated in the conference
	program.
REGULATIONS:	Delete A-D.
REGULATIONS.	Delete F-G.
	Designs submitted on a maximum paper size of 24" x 36" or smaller sheets
	mounted on a 24" x 36" sheet with no overlapping papers.
	No school or individual names labeled on projects; only ID#'s are to
	be used. Upon registering students online, they are automatically
	assigned an ID#. This number needs to be on student projects.
EVALUATION:	Delete "on screen."

Computer Numerical Control (CNC) Production Pre-Conference Event

OVERVIEW:	Participants design a mousetrap car for CNC machine production. Evaluation is based on design and documentation. No machined parts are submitted. Documentation binder is submitted Pre-Conference.
PURPOSE:	Participants demonstrate the use of critical thinking skills to design a mousetrap car, appropriate materials and fabrication techniques for CNC production.
ELIGIBILITY:	1 team of 2 members per chapter
TIME LIMITS	Delete B-E. Binder is submitted Pre-Conference.
PROCEDURE:	Delete A-L. Binder is submitted Pre-Conference.
REGULATIONS:	A.1.e. Change "photographic images" to "3D drawings." B. Items listed under "Materials" must be incorporated into the mousetrap car design. Delete C-D.
EVALUATION:	Evaluation is based on the documentation (80 points).

Debating Technological Issues On-Site Event

2014 Topic: Surveillance

Subtopic 1 - Should surveillance devices be used in a public educational facility?

Subtopic 2 - Should public notices be posted by entities using surveillance devices?

Subtopic 3 - Should the Federal Transportation Security Administration change current surveillance practices for public transportation?

OVERVIEW:	No change
PURPOSE:	No change
ELIGIBILITY:	1 team of 2 members per chapter
TIME LIMITS	No change
PROCEDURE:	Delete P.
	Q. No semifinalists. Winners announced at Awards Ceremony.
	S. No finalists. Winners announced at Awards Ceremony.
REGULATIONS:	Delete H.
	I. No observers allowed in debate room. No semifinalists.
EVALUATION:	No change

Desktop Publishing Pre-Conference Event

OVERVIEW:	Delete "All participants work to solve an onsite problem." Notebook and USB flash drive containing digital copy submitted Pre- Conference.
PURPOSE:	No change
ELIGIBILITY:	1 individual per chapter
TIME LIMITS	Delete B-C. No on-site component.
PROCEDURE:	Delete C-E. G. Winning entries become the property of NJ TSA.
REGULATIONS:	 B. No on-site portion. The notebook and USB flash drive containing the PDF file are submitted Pre-Conference. No school or individual names labeled on projects; only ID#'s are to be used. Upon registering students online, they are automatically assigned an ID#. This number needs to be on student projects.
EVALUATION:	Evaluation is based on points earned for News Release, Newsletter, and Poster for a total of 100 points. No on-site problem.

Digital Video Production <u>Pre-Conference Event</u> 2014 Theme: "Documentary"

OVERVIEW:	No change
	Note: NJ TSA reserves the right to eliminate any entries that contain inappropriate content. These entries will not be judged.
PURPOSE:	No change
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ELIGIBILITY:	1 team per chapter
TIME LIMITS	No change. Film must be submitted on a DVD that works in a standard DVD player.
PROCEDURE:	C. No finalists. Winners are announced at Awards Ceremony.
REGULATIONS:	C. All entries become the property of NJ TSA.
	No school or individual names labeled on projects; only ID#'s are to be used. Upon registering students online, they are automatically assigned an ID#. This number needs to be on student projects.
EVALUATION:	No change

Dragster Design Pre-Conference Event

OVERVIEW:	No change
PURPOSE:	No change
ELIGIBILITY:	2 individuals per chapter
TIME LIMITS	Dragster and drawing submitted Pre-Conference. Cars that do not meet specifications will NOT be raced.
PROCEDURE:	Dragster and drawing are submitted Pre-Conference. Delete F. No wind tunnel test.
REGULATIONS:	PLEASE NOTE:
	 The top 16 dragsters meeting specifications will be raced in the double elimination bracket at the conference. <u>Cars not meeting specs WILL BE DISQUALIFIED from competition.</u> A caliper will be used for all measurements
EVALUATION:	Evaluation is based on 105 points. No wind tunnel test.
	The top 16 dragsters meeting specifications will be raced in the double elimination bracket at the conference. <u>Cars not meeting specs WILL BE</u> <u>DISQUALIFIED from competition.</u>
	No school or individual names labeled on projects; only ID#'s are to be used. Upon registering students online, they are automatically assigned an ID#. This number needs to be on student projects.
	Place ID# on drawings and directly on dragster. It is recommend ID#'s are placed on bottom or back side of dragster with tape or label.

Engineering Design On-Site Event

OVERVIEW:	No semifinalists. All teams give a timed presentation
PURPOSE:	No change
ELIGIBILITY:	1 team of 3-5 members per chapter
TIME LIMITS	B. No semifinalists. All teams will give a presentation of up to 5 minutes in length.
PROCEDURE:	B-D. No semifinalists. All teams will give a presentation of up to 5 minutes in length at the time designated by the event coordinator at check-in.
REGULATIONS:	E. No semifinalists. All teams give presentation/interview.
EVALUATION:	No semifinalists. All teams participate in presentation/interview.

Essays on Technology

<u>On-Site Event</u>

2014 Topic: "The Greatest Invention(s) of the Modern Technological World"

Subtopics: -Communications -Manufacturing -Transportation

OVERVIEW:	No change
PURPOSE:	No change
ELIGIBILITY:	1 individual per chapter
TIME LIMITS	No change
PROCEDURE:	H. No finalists. Winners announced at Awards Ceremony.
REGULATIONS:	G. All essays become the property of NJ TSA
EVALUATION:	No change

Extemporaneous Speech On-Site Event

OVERVIEW:	No change
PURPOSE:	No change
ELIGIBILITY:	1 individual per chapter
TIME LIMITS	No change
PROCEDURE:	Delete C.2, C.3, H, I, J.
REGULATIONS:	E. No observers will be permitted.
EVALUATION:	No change

Fashion Design

Pre-Conference Event

2014 Theme Challenge: Design two (2) outfits for a NEW children's fairy tale storybook character. Participants are responsible for creating three (3) items total that can be worn with either of the outfits.

OVERVIEW:	Portfolio, patterns, accessories and garments are submitted Pre-Conference.
	No semifinalists. All teams do runway presentation on conference day.
PURPOSE:	No change
ELIGIBILITY:	2 teams of 2-4 members per chapter
TIME LIMITS	B. No semifinalists. All teams make presentation.
PROCEDURE:	A-B. Entries are submitted Pre-Conference.
	C, D, F, H. No semifinalists. All teams do runway presentation. Winners
	announced at Awards Ceremony.
	E. A CD player will be provided but all sounds appeariated with the
REGULATIONS.	E. A CD player will be provided but all sounds associated with the presentation need to be able to be played on a standard player with track
	numbers labeled clearly for playing.
	F. No semifinalists. All teams participate in the runway show.
	No school or individual names labeled on projects; only ID#'s are to
	be used. Upon registering students online, they are automatically
	assigned an ID#. This number needs to be on all parts of student
	projects.
	Labels/tape are recommended for labeling garments, documentation, and
	on the outside of submission container and garment bag.
EVALUATION:	No semifinalists. Winners announced at Awards Ceremony.

Flight Endurance On-Site Event

OVERVIEW:	No change
	Plane and flight box are built off-site and submitted for judging on
	conference day.
PURPOSE:	No change
ELIGIBILITY:	1 individual per chapter, one entry per individual
TIME LIMITS	B. Participants are provided a minimum of 20 minutes for trim flights at the
	event's site.
PROCEDURE:	K. No finalists. Winners announced at Awards Ceremony.
	Participants pick-up planes at time/location specified by event coordinator.
REGULATIONS:	No change
	PLEASE NOTE:
	B. Plane must be contained in a flight box, which students must
	provide.
EVALUATION:	No change.
	No school or individual names labeled on projects; only ID#'s are to
	be used. Upon registering students online, they are automatically assigned
	an ID#. This number needs to be on student projects.
	Place ID# on drawings and directly on plane. It is recommend ID#'s are
	placed on bottom or back side of plane with tape or label.

Future Technology Teacher On-Site Event

OVERVIEW:	No change
PURPOSE	No change
ELIGIBILITY:	2 individuals per chapter
TIME LIMITS	B. Notebook submitted Pre-Conference.
	C. Lesson plan/activity is presented On-Site.
PROCEDURE:	F. Notebook submitted Pre-Conference.
	G. No semifinalists.
	H. No semifinalists. All participants present lesson plan/activity.
REGULATIONS:	G. Audio visual equipment will be provided by NJ TSA.
	No school or individual names labeled on projects; only ID#'s are to
	be used. Upon registering students online, they are automatically
	assigned an ID#. This number needs to be on student projects.
EVALUATION:	No change

Manufacturing Prototype

Static Event

2014 Product: "A product developed and produced in an alternative way (versus by a traditional method) that demonstrates a reduction of waste."

OVERVIEW:	No change
PURPOSE:	No change
ELIGIBILITY:	2 teams per chapter. 1 entry per team
TIME LIMITS	No change
PROCEDURE:	No change
REGULATIONS:	No change
EVALUATION:	No change.
	No school or individual names labeled on projects; only ID#'s are to
	be used. Upon registering students online, they are automatically assigned
	an ID#. This number needs to be on student projects.

Music Production

Pre-Conference Event

OVERVIEW:	No change
PURPOSE:	No change
ELIGIBILITY:	1 team per chapter. Team work is strongly encouraged, but a team of 1 member is permitted.
TIME LIMITS	D. No semifinalists. No interview. Entries submitted Pre-Conference.
PROCEDURE:	Delete C-D.
REGULATIONS:	E. All entries become the property of NJ TSA.
EVALUATION:	Based on 100 points. No interview.
	No school or individual names labeled on projects; only ID#'s are to be used. Upon registering students online, they are automatically assigned an ID#. This number needs to be on student projects. ID#'s should be labeled on CD, CD case (if included) and notebook.

On Demand Video

Pre-Conference Event

2014 Theme will be posted on the NJ TSA website at 5pm on February 27, 2014.

OVERVIEW:	The theme and any required criteria will be announced on the NJ TSA website at 5pm on February 27, 2014. Participants will write, shoot and edit a sixty (60) second video. The video and notebook must be submitted by 5pm on March 4, 2014. Entries will be judged and put on display at the State Conference.
PURPOSE:	No change
ELIGIBILITY:	1 team of 2 or more members per chapter. One entry per team.
TIME LIMITS	Delete A, C. Theme will be posted on the NJ TSA website at 5pm on February 27, 2014. Entries must be received at the NJ TSA Office or postmarked by 5pm on March 4, 2014.
PROCEDURE:	 A. Notebook and video submitted Pre-Conference (by March 4, 2014). B. Theme will be posted on the NJ-TSA website on February 27, 2014. Delete E-G. Winners announced at Awards Ceremony.
REGULATIONS:	 B. Entries become the property of NJ TSA. H. Video and notebook are submitted Pre-Conference.
EVALUATION:	No change

Open Source Software Development Pre-Conference Event

OVERVIEW:	No semifinalists. No presentation. Binder and CD/DVD submitted Pre- Conference.
PURPOSE:	No change
ELIGIBILITY:	2 teams of 2 to 5 members per chapter
TIME LIMITS	B. No semifinalists. No presentation.
PROCEDURE:	B-D. No semifinalists. No presentations. Winners announced at Awards Ceremony.
REGULATIONS:	C. Participants will pick up entries at the time specified in the program.
EVALUATION:	Evaluation is based on documentation and design (110 points).

Photographic Technology Pre-Conference Event 2014 Theme: "Goodwill"

OVERVIEW:	No semifinalists. Winners will be announced at Awards Ceremony.
	Documentation binder and multimedia presentation submitted Pre-
	Conference.
PURPOSE:	No semifinalists.
ELIGIBILITY:	1 individual per chapter, 1 entry per individual
TIME LIMITS	No change
PROCEDURE:	A. Entries are submitted Pre-Conference.
	B. Entries are reviewed by evaluators and winners are announced at the
	Awards Ceremony. No semifinalists.
	Delete C – K.
	I. Multimedia presentation submitted on a CD or DVD and must include 15
	photos. No semifinalists. All individuals submit the multimedia presentation
	Pre-Conference.
REGULATIONS:	No change.
RECOLATIONO.	Please read Regulations carefully, paying close attention to size
	requirements.
	No school or individual names labeled on projects; only ID#'s are to
	be used. Upon registering students online, they are automatically assigned
	an ID#. This number needs to be on student projects.
	ID#'s should be labeled on binder and CD/DVD.
EVALUATION:	Evaluation is based on 150 points earned for the documentation binder and
LVALUATION.	multimedia presentation. There is no On-Site component.

Prepared Presentation On-Site Event 2014 Theme: "The Spirit of Innovation"

OVERVIEW:	No change
PURPOSE:	No change
ELIGIBILITY:	1 individual per chapter
TIME LIMITS	No change
PROCEDURE:	D. No observers will be permitted.
	Delete E-G.
REGULATIONS:	F. NJ TSA will provide a computer, projector and screen. All files must be
	on a USB drive or CD/DVD.
	G. NJ TSA will provide easel, table and podium.
EVALUATION:	No change

Promotional Graphics Pre-Conference Event 2014 Options: --Flight Endurance -System Control Technology -Webmaster

OVERVIEW:	No change
PURPOSE:	No change
ELIGIBILITY:	2 individuals per chapter, 1 entry each
TIME LIMITS	No change
PROCEDURE:	 A. Entries submitted Pre-Conference. Submit entry in PDF format via email to tsachall@tcnj.edu by 12 midnight EST on March 18, 2014. The subject line of the email must be: Promotional Graphic entry for (student ID#). Example: Promotional Graphic entry for 100001. C. No finalists. Winners are announced at the Awards Ceremony.
REGULATIONS:	E. All entries become the property of NJ TSA.
	No school or individual names labeled on projects; only ID#'s are to be used. Upon registering students online, they are automatically assigned an ID#. This number needs to be on student projects.
EVALUATION:	No change.

SciVis Pre-Conference Event

OVERVIEW:	No change
PURPOSE:	No change
ELIGIBILITY:	1 team per chapter.
TIME LIMITS	Delete D. No semifinalists. Entries submitted Pre-Conference. No interview/presentation.
PROCEDURE:	Delete A-D. Entries submitted Pre-Conference.
REGULATIONS:	Delete E. No presentations.
	Delete H.
	No school or individual names labeled on projects; only ID#'s are to be used. Upon registering students online, they are automatically assigned an ID#. This number needs to be on student projects.
EVALUATION:	No interview will be included in the scoring.
	Evaluation will be based on 80 points.

Structural Engineering On-Site Event 2014 Structure: "Build a Box Girder Beam"

OVERVIEW:	No change
PURPOSE:	No change
	*
ELIGIBILITY:	1 team of 2 per chapter
TIME LIMITS	A-B. No change
	Delete C.
ATTIRE and	Students must bring their own safety eyewear.
SAFETY	
EYEWEAR	
PROCEDURE:	NOTE: Students must provide their own tools, CA adhesive and
	accelerator.
	NJ TSA will provide graph paper, wax paper, 2 sheets of 8.5"x11" copy
	paper, pinboard (foamcore board) and basswood only.
EVALUATION:	No change
	Please note:
	I. Structures are not to be tested if
	1. there are two (2) or more rules violations.
	2. the structure cannot be placed on the tester.
	3. the testing hook cannot be placed in the center of the structure.
	4. straight pins are left in the structure.
	5. there is failure to wear safety eyewear.
	6. conduct unbecoming a TSA conference participant is evident
	during check-in, fabrication or testing.

System Control Technology

Static Event

2014 Design Problem will be posted on the NJ TSA website on January 27, 2014

	Delete "an eite" Medel is constructed off eite during the colored upon
OVERVIEW:	Delete "on site." Model is constructed off-site during the school year.
PURPOSE:	No change
	Ŭ
ELIGIBILITY:	1 team of 3 per chapter
TIME LIMITS	Design problem will be posted on the NJ TSA website on January 27, 2014. A. There will be a 15 minute set up time (students set up the device and leave instructions for evaluators to operate the device). Delete B. C. Model is constructed off-site
PROCEDURE:	Delete B. C. Inventor's log is completed off-site. Delete D-E.
REGULATIONS:	No change
EVALUATION:	Stand-alone project. Instructions must be left for evaluators to operate the device.

Technical Sketching and Application

On 0:40	E.co.m.f
On-Site	Event

OVERVIEW:	No change
PURPOSE:	No change
ELIGIBILITY:	2 individuals per chapter
TIME LIMITS	A. Participants are allowed 1 hour for written test.
	B. No semifinalists. All participants have 1 hour for on-site problem.
PROCEDURE:	C. No semifinalists. Winners will be announced at Awards Ceremony.
	D. No semifinalists. Winners will be announced at Awards Ceremony.
	All participants take the written test and solve on-site problem.
REGULATIONS:	B-E. All participants will receive the necessary materials. No semifinalists.
EVALUATION:	Delete A-B.
	Evaluation is based on 50 point test and 50 point evaluation of technical
	sketch/drawing.

Technology Bowl On-Site Event

OVERVIEW:	All participants will complete a written exam and then participate in the oral event.
PURPOSE:	No change
ELIGIBILITY:	1 team of 3 per chapter
TIME LIMITS	A. 45 minutesB. All teams will participate in the oral competition.
PROCEDURE:	Delete A-K. Follow the procedures listed below:
	 A. Following the written test, team members will report to the oral event area holding room for briefing at the designated time. After briefing, advisors must leave and the team will remain in the holding room until called for competition. Teams may visit with other teams; however, <u>no advisors or visitors</u> may enter the holding room. B. No audience members are permitted into the oral event area. C. When instructed to do so, two (2) teams will enter the event area and be seated according to instructions. D. When a team has been defeated in any round of the oral event, the team is out of the competition. E. Questions will be drawn, as needed, from a card file resource bank. F. A team's total score is derived from the correct answers to the questions asked. For each correct answer, a team will receive ten (10) points. When a question has been completely read and a team is recognized to answer, if the team does not answer or answers incorrectly, five (5) points will be deducted from the team's score. In this instance, the other team does not have the opportunity to respond to this question, and the next question is read for both teams. If is question is being read and a team member presses the button before the question will be read for the other team. G. A total of twelve (12) questions will be asked per round. No questions will be repeated in another round. In the case of the tie, five (5) additional questions will be asked. This procedure will continue until the tie is broken. The questions will be picked at random from the basic areas tested. H. Bonus Question There will be one additional question (bonus question). The bonus question will be announced, and the team that answers it correctly will have the opportunity to answer one

	 additional question. This is the only time when team members may consult with each other before giving an answer. The team will have ten (10) seconds to give its answer. If a team gives an incorrect answer to the bonus question, then the question will be read to the other team. Bonus point scoring: If a team answers the bonus correctly, that team receives fifteen (15) points; if a team answers the bonus incorrectly, that team loses five (5) points from its score. I. A panel of evaluators will be available to respond to questions concerning acceptable answers. 1. Rulings on acceptable answers will be made only during the round in question. 2. Rulings will be made immediately, to do one of the following: a. Accept only the answers listed on the card. b. Accept the student's answer and renew points, or remove the question and read another in its place. c. The rulings of the panel will be final.
REGULATIONS:	A-B. Delete. Follow regulations listed below:
	 A. No transmitting or recording devices, including cell phones, will be permitted in the event area. No prompting will be permitted. B. The team member who "buzzes in" will have five (5) seconds to answer the question, without discussion. C. The team that answers the bonus question will be allowed ten (10) seconds to discuss the extra question and give an answer. D. After a question is read, the competing teams will have ten (10) seconds to answer. If neither team can answer the question, then another question will be read. E. If a team member "buzzes in" before a question is finished being read, that member must give the exact answer as printed on the card.
EVALUATION:	A-C. Delete. Follow evaluation listed below:
	Evaluation is based on the total points from the three written tests plus the total points from the oral competition. Awards will be given to the top three (3) teams

Technology Problem Solving On-Site Event

OVERVIEW:	No change
PURPOSE:	No change
ELIGIBILITY:	1 team of 2 per chapter
TIME LIMITS	No change
PROCEDURE:	 A.1-10. Students will be provided with the necessary tools and materials. A.9. Each team member must bring his/her own safety glasses. B.1-7. Students will be provided with the necessary tools and materials.
REGULATIONS:	No change
EVALUATION:	No change

Transportation Modeling Pre-Conference Event

2014 Design Theme: "A two passenger, short range, alternative fuel vehicle. The vehicle would be intended for a Zipcar-style cooperative"

OVERVIEW:	No obongo
OVERVIEW.	No change
PURPOSE:	No change
ELIGIBILITY:	2 individuals per chapter
TIME LIMITS	No change
PROCEDURE:	No time trials will be conducted.
	Delete A. Entries are submitted Pre-Conference.
	Delete C-D.
	E. Evaluation is based on notebook and model.
REGULATIONS:	Delete B.
	C.5. (under Model) Delete "when raced."
	Delete E.
	No school or individual names labeled on projects; only ID#'s are to
	be used. Upon registering students online, they are automatically assigned
	an ID#. This number needs to be on student projects.
EVALUATION:	Evaluation is based on points earned for notebook and model (120 points).

VEX Robotics On-Site Event

OVERVIEW:	Go to http://www.tsaweb.org/Vex-Robotics-Competition
	Questions related to VEX should be directed to:
	Hillary Lee at the National TSA Office: <u>hlee@tsaweb.org</u> or
	Henry Harms, NJ TSA Competitive Event Coordinator: <u>harms@tcnj.edu</u>
PURPOSE:	
ELIGIBILITY:	1 team of up to 6 members per chapter.
TIME LIMITS	
PROCEDURE:	
REGULATIONS:	
EVALUATION:	

Video Game Design Pre-Conference Event

OVERVIEW:	No change
PURPOSE:	No change
ELIGIBILITY:	1 team per chapter.
TIME LIMITS	No change
PROCEDURE:	B. No semifinalists. Winners announced at Awards Ceremony.
	Delete C-D. No semifinalists. No interview. Entry submitted Pre-
	Conference.
REGULATIONS:	
	the DVD. Entries will be evaluated using only a PC platform. Participants
	will not be permitted to install anything on evaluators' computers.
	E. Entries become the property of NJ TSA.
EVALUATION:	Evaluation based on 100 points. No interview.

Webmaster Pre-Conference Event

OVERVIEW:	A copy of the design brief can be found at:
	http://www.tsaweb.org/Themes-and-Problems
	Delete "Semifinalists will participate in an on-site interview"
PURPOSE:	No change
ELIGIBILITY:	1 team of 3-5 members per chapter. No semifinalists. No interview.
	Winners announced at Awards Ceremony.
TIME LIMITS	A-B. Change date from May 15 to March 18, 2014.
	Send URL to tsachall@tcnj.edu.
	Delete C.
PROCEDURE:	B. All questions must be emailed to goeke2@tcnj.edu or harms@tcnj.edu
I ROOLDORE.	Delete D-H
REGULATIONS:	Delete I. No interview.
EVALUATION:	Delete B. No interview. Evaluation based on 100 points.
EVALUATION.	
	LIDL's MUST be smalled to Alison Cosks. State Advisor
	URL's MUST be emailed to Alison Goeke, State Advisor
	(tsachall@tcnj.edu) by 12 midnight EST March 18, 2014. All emails will be
	time stamped and serve as proof of submitting project on time. Be sure to
	include ID# & Webmaster Submission in subject line.