

**ROLAND**



**TECHNOLOGY STUDENT ASSOCIATION**



**Junior High**

**2008**

September 16, 17, 18

Thank you for your interest in the Roland Technology Student Association and the Roland Technology Challenge. Before you select your events to compete in please be aware of the following information and requirements.

- The rules in this handbook have been copied from the official TSA guidelines book. Due to local resources and limitations, the rules may be altered as needed, even after this handbook has been produced.
- Students must currently be enrolled in Technology Education or have previously had one year of Technology Education.
- Students must be able to maintain a “C” average to compete in TSA competitions.
- Students are only allowed to enter/compete in five events at the Roland Technology Challenge.
- Students competing in the Roland Technology Challenge must have participated in the Great American Fundraising campaign.
- Students must be sign up and have paid registration dues by August 31, 2008.
- Measures have been taken to ensure the Roland Technology Challenge is a fair, open contest for all legitimate participants.
- No awards will be given as a result of this contest.
- Individual 1<sup>st</sup> place = 4.0 points
- Individual 2<sup>nd</sup> place = 2.0 points
- Individual 3<sup>rd</sup> place = 1.0 points
- Team 1<sup>st</sup> place = 3.0 points (each)
- Team 2<sup>nd</sup> place = 1.5 points (each)
- Team 3<sup>rd</sup> place = .75 points (each)

## **1. Career Challenge**

*Drop off Tuesday September 16 in the Tech Ed building by 8:45 A.M. Black and white publications are fine. Color printing at the school is off limits.*

Participants conduct research on a selected technology-related career and use the knowledge gained to prepare a resume and cover letter, complete a job application, and participate in a mock interview.

In 2009, students choose one (1) of these careers:

- Chemical engineer
- Pilot • Broadcast and sound engineering technician
- Radiologic technologist/technician
- Computer systems analyst

A. Resumes and cover letters must be completed prior to the event.

B. Resumes must be typed and are limited to two (2) one-sided, 8½" x 11" pages.

C. Cover letters must be typed and are limited to one (1) one-sided, 8½" x 11" page.

D. Each participant brings only the resume, cover letter, and a black or blue ink pen into the event area.

E. Only participants are allowed in the event area. Should a participant finish before the allotted time, s/he is allowed to leave quietly but may not re-enter the event area.

## **2. Communication Challenge**

*Drop off Tuesday September 16 in the Tech Ed building by 8:45 A.M. Black and white publications are fine. Color printing at the school is off limits.*

Design and produce a newsletter that promotes the chapter's activities, an effective sponsor support request on chapter letterhead, and a business card. Finalists are asked to work creatively under constraints in designing a solution to a problem given on site.

A. Participants produce a TSA chapter newsletter, one (1) page front and back, which describes the chapter's activities and the school in the current academic year. The newsletter must have a finished size of 8½" x 11" and must include, as a minimum, the following elements:

- Title/banner/masthead
- Chapter name
- Headlines
- TSA or chapter logo
- Three (3) pictures or illustrations
- One (1) article about a chapter activity
- One (1) article about a school activity

B. Participants produce chapter letterhead, or stationery, for the current school year that includes chapter name, address, phone, logo art (TSA or local chapter), and the local president and advisor's name. If applicable, the chapter's fax, e-mail address, and web site address are included.

C. Using the letterhead described above, participants compose a letter requesting sponsorship from a local business or industry that includes the signature of both the advisor and at least one of the local chapter officers.

D. Participants produce a standard-sized business card (2" x 3½") that includes at least these three (3) elements:

- TSA or chapter logo
- School address
- Name of chapter advisor

E. If the entry contains images of people, proof of consent must be attached to the back of the entry. Images of minors require parental consent. (See Photo/Video Consent and Release form that follows.)

F. Participants submit the newsletter, the sponsor letter, and the business card in a standard three (3)-ring binder at the event check-in time.

G. All materials necessary to solve the on-site problem are provided. Finalists may not bring outside notes, reference materials, or equipment into the event area.

## **3. Computer Applications**

*Testing event that will take place on Tuesday September 16 Location and times are TBD.*

Complete a written exam covering basic computer literacy. This is an individual written exam.

#### **4. Creed**

*Testing event that will take place on Tuesday September 16. Location and times are TBD.*

Write the TSA Creed from memory. Punctuation, spelling, capitalization, and title all count.

#### **5. Graphic Design**

*Submit via server (O-Drive) by 3:15 P.M. Tuesday September 16*

Participants develop and present a graphic design that can be used as a TSA recruitment tool and that includes the theme for the next year's conference. In 2009, participants must include the theme of the 2010 conference, which is "**TSA: Tomorrow's Leaders.**" Note: do not include "TSA" in the theme this year.

- A. Graphic Design Challenge is an individual event. No recognition is given for a group effort.
- B. The design may not exceed 20 cm (8 inches) x 25 cm (10 inches). The design may be presented either in portrait or landscape layout.
- D. The original design layout must promote the conference theme for the upcoming national TSA conference. The following information must be included:
  - 1. The words "National TSA Conference"
  - 2. Conference date
  - 3. Conference location
  - 4. Published theme for upcoming conference, not current conference (Quotation marks are not necessary.)
  - 5. The complete official TSA logo, as found on the cover of this guide
- E. The design is produced as a black and white camera-ready image for one (1) color (monochromatic) duplication.
- F. The design may include the use of commercially produced or computer generated type and public domain clip art. Any use of copyrighted or registered artwork must be accompanied by written permission from the original artist. (Please refer to item K in the General Rules.) On a separate sheet of paper (placed in the same clear page protector, behind the art) list the origin of the graphics or images.
- G. If the design entry contains images of people, proof of consent must be attached to the back of the entry. Minors require parental consent. (See Photo/Video Consent and Release form that follows.)

#### **6. Medical Challenge**

*Drop off Tuesday September 16 in the Tech Ed building by 8:45 A.M.*

Participants conduct research on a contemporary medical technology issue of their choosing, document their research, and create a display. The information may include student-performed research or a re-creation or simulation of research performed by the scientific community. If appropriate, a model or prototype depicting some aspect of the issue may be included in the display.

- A. All work must be completed during the current school year.
- B. Students must understand the fundamental concepts and principles contemporary medical technology issue the team has selected. Research should focus on significant impacts (opportunities *and* risks) environment, economy, and society, as well as any important considerations.
- C. Entries must include one (1)-sided, 8½" x 11" pages in a standard three ring binder, consisting of the following:
  - 1. Cover page with title; one (1) page
  - 2. Definition and explanation of the issue; one (1) page
  - 3. An explanation of the importance of this issue to our lives including possible problems and solutions; maximum three (3) pages
  - 4. Supporting information such as logs, graphs, sketches, drawings, illustrations, photographs, etc.; maximum four (4) pages
  - 5. A list of student team members and responsibilities; one (1) page
  - 6. A list of references and resources; pages as needed
- D. Display guidelines are as follows:
  - 1. The size of the display may not exceed 1' deep x 3' wide x 3' high.
  - 2. Models or prototypes, if included, must be contained within the display space.
  - 3. A/C electricity may not be used.
  - 4. Dry cell or photo-voltaic cells may be used for power, if desired.
  - 5. Any power source used must fit within the maximum display area.
  - 6. If operating instructions are necessary, they must be clearly displayed.

7. No viruses, live plants, nor animals may be used as a part display. No harmful or illegal substances may be displayed. Violation of this regulation will result in disqualification.

### **7. Prepared Speech**

*Presentations will be Thursday, September 18. See Mr. O'Neal for time.*

Participant delivers an oral presentation that includes audio and/or visual enhancement and that reflects the theme of the current conference. The theme for the 2008 conference is "TSA: Imagine It!."

- A. Each presentation must be the result of the participant's own efforts.
- B. The topic for the Prepared Speech event is the published theme for the current year's conference. Information about technology and TSA is appropriate as long as it relates to the published theme.
- C. The presentation may include the use of visual materials.
- D. Examples of visual materials may include but are not limited to:
  - 1. Models
  - 2. Charts and graphs
  - 3. Posters
  - 4. Displays
  - 5. Flip charts
- E. Computer and other electronic presentation devices are not allowed. A standard overhead projector may be used.
- F. Participants are not allowed to hear other participants' presentations.
- H. Participants' scores are penalized one point for each ten (10)-second interval for speaking over or under the allotted time. The same time penalty is used for set-up and take down. Time commences when the presentation begins.

### **8. Problem Solving**

*Testing event that will take place on Tuesday September 16. Location and times are TBD.*

This is a written individual test.

### **9. Structural Challenge**

*Drop off Tuesday September 16 in the Tech Ed building by 8:45 A.M.*

Construct a tower that is 14" with a limit of 20 feet of balsa wood. You must have a ¼" plywood base plate that is a 3" square. A drawing must be submitted or it will result in a disqualification. No hot glue. The height of the base plate is to be taken into consideration of the structure's total height.

### **10. Technical Writing**

*Testing event that will take place on Tuesday September 16. Location and times are TBD.*

Participants conduct research in two (2) or three (3) specified subtopics of a broader technological area and, using the knowledge and resources gained through that research, write a comprehensive report on the one (1) subtopic that is designated on site.

The topic for the 2009 conference is "The Increasing World Population" with these subtopics:

Environmental impacts  
Economic impacts  
Societal and political impacts

- A. Each participant is allowed to bring one (1) 3" x 5" note card for each subtopic, a dictionary, and a thesaurus to the event. All research material brought into the event area must be contained on the note cards. The dictionary and thesaurus must be in print format, not electronic format.
- B. Only participants are allowed in the event area. Should a participant finish before the allotted time expires, s/he is allowed to leave quietly but may not re-enter the event room.
- C. Ballpoint pen and paper are supplied by the event coordinator and must be turned in at the conclusion of the event.

D. Each report must have the participant entry number only placed in the upper right-hand corner of the first page, just above the title of the report.

E. The length of the report is limited to four (4) handwritten and double-spaced pages, not counting the list of references.

F. A reference list that includes only those references used to write the report also must be handed in.

G. Only the note card used for the report is turned in with the report.

### **11. Technology Bowl**

*Testing event that will take place on Tuesday September 16. Location and times are TBD.*

This is a written individual test.

### **12. TSA Multimedia**

*Drop off Tuesday September 16 in the Tech Ed building by 8:45 A.M.*

Participants use their creative skills to produce a multimedia presentation that promotes or details an aspect of TSA.

A. This competition is designed to promote or provide details about TSA. Your viewing audience must clearly understand your chosen topic.

B. The presentation

1. must be electronically authored and presented on a CD-ROM. An analog videocassette is not acceptable.

2. must be self-explanatory. Only finalists have the opportunity to explain their presentation.

3. must be self-contained; the presentation software must be included with the presentation.

4. may be interactive.

5. may be created on common authoring programs such as Hyperstudio™, PowerPoint™, HTML, Macromedia Director™ or others.

6. may not exceed one and one-half (1½) minutes.

C. Students must introduce themselves at some point in the presentation. At a minimum, the introduction includes their name and a photograph.

D. It is important that the presentation be the result of the vision and work of the student. Information about TSA is available on the national TSA website [www.tsaweb.org](http://www.tsaweb.org). (Participants should not contact national TSA for input or guidance.)

E. In addition to the presentation, students must submit a signed, word processed document pledging primary authorship. This is where, as required in the General Rules and Regulations, *all* ideas, text, images, and sounds, including music, are cited, including anything that is from the public domain. If copyrighted material is used, proper written permission must be included. Failure to follow this procedure results in disqualification.

F. Participants have permission to use the TSA logo, which is copyrighted, for the purposes of this event.

G. Students give viewing and property rights to TSA upon submittal to the competition.

H. The winning presentation may be used as a marketing tool throughout the United States for potential business and industry partners not currently involved with TSA. Should that be the case, TSA may ask the authoring student to provide a Photo/Video Consent and Release form (that follows) for any individuals included in the presentation.

Read the General Rules and Regulations in the front of this book for information that applies to all of TSA's competitive events. For TSA Multimedia, especially note the rule about original work and the use of materials from other sources.



## Registration Form

Due: Friday August 29<sup>th</sup>

Student Name \_\_\_\_\_

Grade \_\_\_\_\_

What grades have you had Tech Ed. (Circle all that apply).

7<sup>th</sup> Grade    8<sup>th</sup> Grade    FIRST-YEAR

*L1*

EVENT	CHECK (UP TO 5)
Career Challenge	
Communication Challenge	
Computer Applications	
Creed	
Graphic Design	
Medical Challenge	
Prepared Speech	
Problem Solving	
Structural	
Technical Writing	
Technology Bowl	
TSA Multimedia	