



RUNNING A TRIG-STAR PROGRAM



Presented By:

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RBF Consulting

March 21st 2005



Today We'll Learn How To:

- ❖ Prepare and run a Trig-Star program at the LOCAL level.
- ❖ Coordinate a Trig-Star program at a STATE level.
- ❖ Integrate the program with materials that promote the survey profession to high school students.



Goals Of Trig-Star

- Honor high school students who have superior skills in math.
- Acquaint high school students of how trigonometry relates to the surveying profession.
- Build an awareness of surveying as a profession among:
 - Math skilled high school students
 - Career guidance counselors
 - High school math teachers.



Why Is Trig-Star Important?



- Fewer and fewer surveyors are coming into the profession.
- Programs are being shut down due to funding or lack of interest.
- Who's responsibility is it to make sure there are more surveyors in the profession?



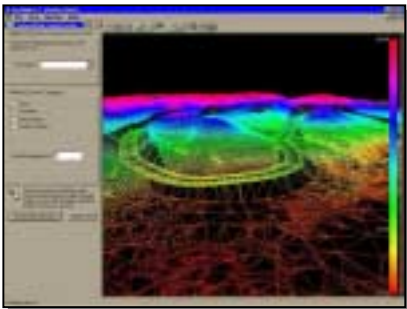
What Do Students Think?

- ➊ Ask the students what they think surveying is.

- ❑ Most high school students only think of field surveying
- ❑ Show them there are more duties of a surveyor than just being in the field.

- ➋ Surveying vs. Geomatics Engineering

- ➌ Technology





*How To Run A
Trig-Star Program*

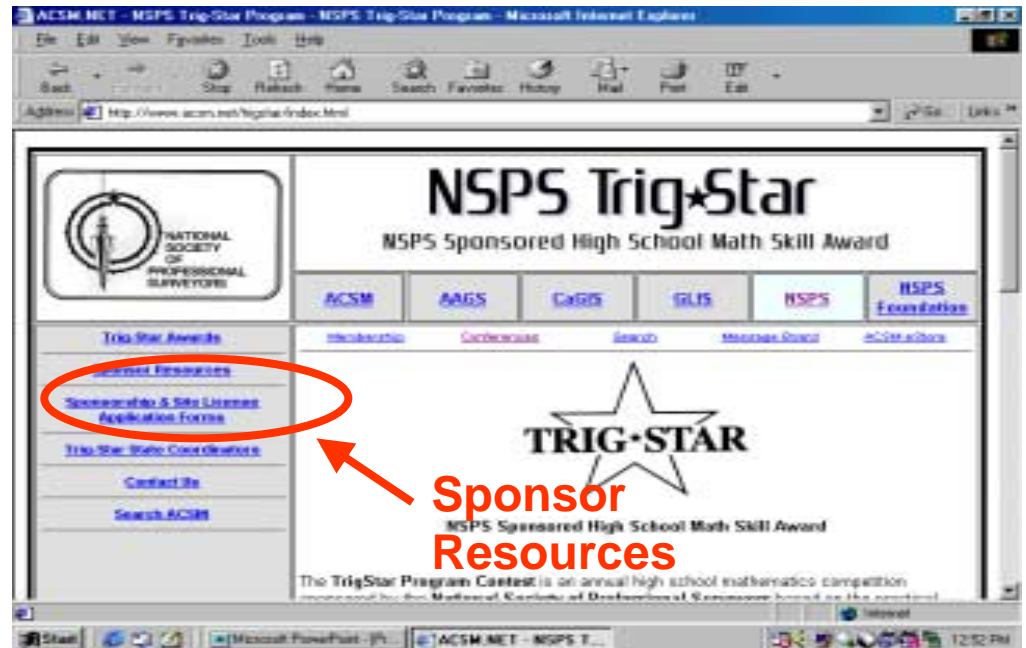


At The LOCAL Level



It's Easy, Fun & Rewarding:

- Forms are available on the web:
 - <http://www.acsm.net/trigstar/index.html>
- State coordinators are able to help.
- Pre-made:
 - Videos
 - Power point shows
 - CD's
 - Pamphlets
 - Flyers
 - Posters





Sponsor Resources:

(Forms are available in PDF and MSWord format)

- Awards and Testing Dates
- Preparation for the Contest
- Suggested Guidelines
- Administering the Local Contest
- Local Contest Rules
- Contest Report
- News Release
- Trig-Star Policies
- Clip Art
- Video
- Printable Certificate
- 11x17 Trig-Star Poster
- Plaque Order Form
- “Surveying: A Fun Career”



General Outline:



Suggested Schedule / Checklist

(Timing will vary depending on each school's schedule)

November: Contact School

December: Find possible sponsors and turn in applications

January: Get presentation info in order and set date to give test/presentation.

February: Give presentation and set date and time for exam.

March: Give exam, schedule time to award winners, and give teacher the "Teacher Evaluation Form".

April: Submit the following items to the state coordinator: (Original tests, Copies of cover sheet, Contest report, Teacher evaluation form.)



November:

✿ Contacting The School

- ✿ Teachers
- ✿ Parents
- ✿ Vice Principals
- ✿ Math Chair positions
- ✿ Ask to speak at a math department meeting
- ✿ Attend math teachers conferences





Getting The Teachers On Board:

● Possible Problems:

- Teachers don't want to give up class time.
- Don't see how this can help them or the school.



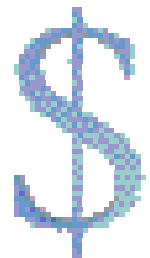
● Solutions:

- Sell the idea of how Trig-Star can be beneficial for the school.
- Some states have included Trig-Star discussions in continuing education sessions.
- Having the test or the presentation on a weekend.
- Referral letters from other teachers.



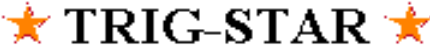
Selling Surveying To Students:

- Possible summer jobs
- Internship
- Demand for surveyors are so great, finding a job after graduating is almost guaranteed.
- Graduating LOAN FREE!
 - \$66,000 was given out last year to students attending survey programs.





December:


A High School Trigonometry Skill Awards Program
Administered by the National Society of Professional Surveyors

==PURPOSE OF THE CONTEST ==

- To promote excellence in the mastery of mathematics in high school.
- To honor high school students who have demonstrated their superior skill among districts or the local, state and national levels.
- To connect high school students with the use and practical applications of mathematics in the surveying profession.
- To build an awareness of surveying and mapping as a profession among mathematically skilled high school students, career guidance counselors, and high school math teachers.

==SPONSORSHIP APPLICATION ==

A local sponsor is needed for each participating high school. Only one TRIG-STAR will be allowed per high school per year. The local sponsor must apply to NSPS on the application form one for the name of the High School where the contest will be held. A contest poster, corner award, corner award, a rear poster, an award plaque (if ordered), and a sample news release will be forwarded by NSPS to the local sponsor. The local sponsor will be responsible for making all the local arrangements. The winner will be eligible to compete in the NSPS National Trig-Star Contest and a corner award will be supplied with the contest poster.

High School Name (required): _____

City and State (required): _____

Local Sponsor _____

Mailing Address: _____

City _____ State _____ Zip _____

Phone Number () _____ District Number () _____

If email address is provided you will receive the contest packet by email. Visit www.trig-star.org for resources to help you prepare for your presentation.

Order Address: _____

Sponsorship fee: \$45.00 (with plaque) and \$25.00 (without plaque)

Name: _____

Enclosed is \$_____ for _____ Dollars. Make checks payable to NSPS TRIG-STAR

NSA #/C # _____ Expiration Date _____/_____/____

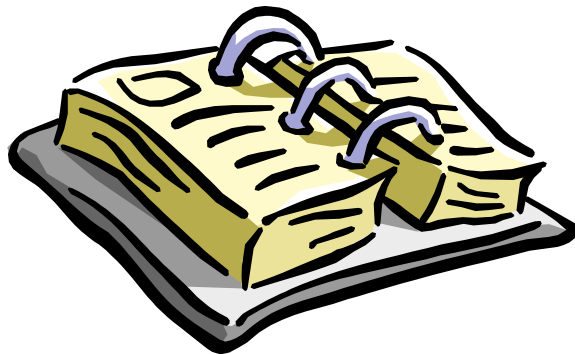
Trig-Star Application

-  Additional sponsors
-  Send sponsorship application form to NSPS & the State Coordinator.
-  Site License



January:

- ❑ Set date to give classroom presentation.
- ❑ Post flyer
- ❑ Gather materials and ideas for the presentation.





What is Trig-Star?

TRIG-STAR is a program that provides training and resources to help students and teachers understand the importance of water conservation and the impact of water on our environment. The program is designed to be used in classrooms and community settings.





Objectives:

- To educate students and teachers about the importance of water conservation.
- To provide students and teachers with the resources and information they need to understand the impact of water on our environment.
- To help students and teachers develop a plan of action to reduce water usage in their homes and schools.



Materials:

- Water meter
- Water conservation kit
- Water conservation poster
- Water conservation brochure



















Contact: _____

Location: _____

Time: _____

















February:

- ❑ Give the classroom presentation.
- ❑ Talk about upcoming Trig Star exam.
- ❑ Arrange date and time of the exam.
- ❑ Contact the local news.



TRIG-STAR

NEWS RELEASE

2004 / 2005 TRIGSTAR

_____ by _____ on the occasion of _____ 2004 / 2005
 TRIG-STAR FOR _____ HIGH SCHOOL in
 _____ held recently. He/she is the son/daughter of

 _____ the contest was sponsored by _____

A TRIG-STAR is a mathematics student who has demonstrated in competition that they are the most skilled among classmates in the practical application of trigonometry. The competition for the honor is simply a worded question which is the solving of a trigonometry problem that incorporates the use of right triangle formulas, the law of sines, and the law of cosines. The contest helps to promote careers in surveying and mapping to students in the high schools across the country. The award is sponsored by the National Society of Professional Surveyors and sponsored locally. Local winners do have the opportunity to participate in the National TRIG-STAR competition for scholarship awards.

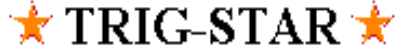
For more information please contact:
 Susan Frank
 6 Montgomery Village Avenue, Suite 405
 Gaithersburg, MD 20878
 301-634-9714 ext. 105 301-634-9511 fax
www.nsp.org www.trig-star.org



March:



- ❑ Administer the Trig Star Exam.
- ❑ Schedule a time to return to formally announce winners.
- ❑ If possible, find local news to be there to take pictures & write article.
- ❑ Give the teacher a copy of the "Teacher Evaluation Form".



TRIG-STAR

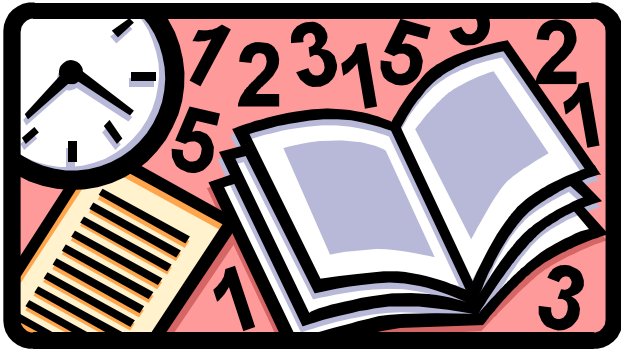
Contest Report

| | | | |
|--|----------------|----------------|--|
| Triagonerary Teacher's Name | | | |
| High School Name | | | |
| Mailing Address | | | |
| City | State | Zip | |
| School Phone | Fax | | |
| Spouse's Name | | | |
| Mailing Address | | | |
| City | State | Zip | |
| Spouse's Phone | Fax | | |
| Level of Contest | Winner's Title | Winner's Score | |
| Number of Contestants | | | |
| Winner's Full Name (Last, First, Middle Initial) | | | |
| Name of Reserve (Last, First, Middle Initial) | | | |
| Mailing Address | | | |
| City | State | Zip | |
| Home Phone | Work Phone | | |
| Comments | | | |

Send this form along with copies of the files and recordings to residents' over plus copies of the score card winner to the State Trig Star Coordinator.

Send a copy of this report to: TRIG-STAR, 6 Montgomery Village Avenue, Suite 460, Gaithersburg, MD 20879

Scoring The Tests



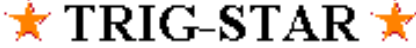
- The student with the **highest score** and **fastest time** is the winner.
- Both the time and the high score are reported to the Trig-Star Coordinator to determine the State Winner and Runner-up.



April:

Submit the following items to the state coordinator:

- Original tests of the First, Second, and Third place winners.
- Copies of each student's test cover sheet.
- Contest report sheet.
- Teacher evaluation form.

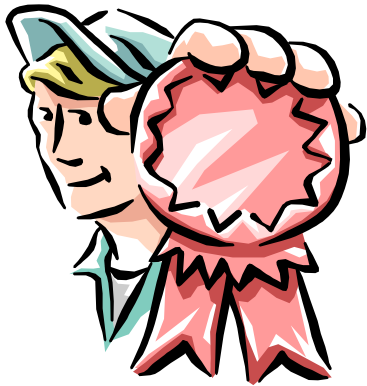

Contest Report

Triagoner's Teacher's Name _____
High School Name _____
Mailing Address _____
City _____ State _____ Zip _____
School Phone: (____) _____
Sponsor's Name _____
Mailing Address _____
City _____ State _____ Zip _____
Sponsor's Phone: (____) _____
Date of Contest: ____/____/____ Winner's Time: _____ Winner's Score: _____
Number of Contesters _____
Winner's Home/Cellular/Work _____
Name of Sponsor/Coordinator _____
Mailing Address _____
City _____ State _____ Zip _____
Home Phone: (____) _____ Work Phone: (____) _____
Comments _____

Send this form along with copies of the first and second place winners' test plus copies of the test cover sheets to the State Trig Star Coordinator.
Send 2 copies of this report to: TRIG-STAR, 6 Montgomery Village Avenue, Suite #161, Gaithersburg, MD 20878



Announcing The Local Winners



- Certificates
- Donations (\$\$)
- Plaques





*How To Run A
Trig-Star Program*



At The STATE Level



Determining The State Winner:

| # | Score | Time | High School Rank | Student Name | Chapter | High School Name |
|----|-------|-------|------------------|-------------------|-------------------|----------------------------|
| 1 | 100 | 49.00 | 1st | Sam Wilson | Central Coast | Mission College Prep. High |
| 2 | 95 | 56.14 | 1st | Brian E. Adams | Adopt A School | Durham High |
| 3 | 90 | 30.01 | 1st | Dan Desmand | Orange County | Trabuco Hills High |
| 4 | 90 | 36.20 | 2nd | Nickolas Alvarado | Orange County | Trabuco Hills High |
| 5 | 90 | 51.30 | 1st | Sean Crosby | Sonoma County | Analy High |
| 6 | 90 | 60.00 | 1st | Austin Hendrix | Sonoma County | Santa Rosa High |
| 7 | 80 | 21.30 | 3rd | James Bankowski | Orange County | Trabuco Hills High |
| 8 | 80 | 36.34 | 1st | Brandon Dietz | Sacramento Region | Elk Grove High |
| 9 | 80 | 40.54 | 2nd | Jason Schukraft | Adopt A School | Durham High |
| 10 | 80 | 41.35 | 2nd | Henning Roedel | Sonoma County | Analy High |



- State test scores are compared by using the same rules as you would to determine the local winner.
- The winner will be awarded a prize & trophy. (*different in every state*)
- The winner of the State will go on to take the National Test.



Determining The National Winner:

- In July the Trig-Star Committee meets to grade all national exams.
- The top three students are awarded prize money.
 - Upon their graduation from high school.
- The teacher of the student who wins at the national level is also given prize money.

Surveying Is A Great Career:

- Show students why you chose to be surveyors.
- Trig-Star is a rewarding way to get involved and hopefully help encourage students to become surveyors.

