



Technology Education News Flash

NATIONAL TECHNOLOGY STUDENT ASSOCIATION 25TH ANNIVERSARY

Congratulations to over 375 Florida students who participated in this year's National Technology Student Association (TSA) 25th Anniversary Conference and Competitions held in Orlando June 24-29. With over 4,000 people in attendance, the conference was National TSA's largest and most successful ever!

Florida students placed in the top ten finalist bracket sixty-three times in twenty-nine team events and eighteen individual events. In addition, Florida took home twenty-five trophies for placement in the top three for their efforts and achievements in the technological competitions. More than forty-seven (47) Florida middle and high schools were represented at the conference! Way to go, Florida!

With the conference still fresh in all of our minds, I wanted to take this opportunity to personally thank all of the individuals who helped make the conference such a tremendous success for all of the students involved. The Florida Conference Management Team did an outstanding job in making sure all of the conference needs were met. The team did the conference scheduling, made sure the competitive events coordinator's needs were met, helped plan the general sessions, secured conference supplies, coordinated registration, recruited and secured judges, organized the social events (mixer and dance), provided security, coordinated special interest sessions, and MANY other tasks as needed throughout the conference. A special "Thank you" to the following individuals who helped make this possible: Harold and Noel Miner, Bill Smith, Cindy and Roger Barnhart, Tom Cummings, Mark Roberts, Michael Oce, Sam Burton, Gil Burlew, Michael Bachman, Jon Slaff, Dan Cox, and George Munn. These individuals worked very hard throughout the year to make this such an outstanding event.

In addition, National TSA staff, Florida TSA, and many other volunteers deserve a round of applause for their important roles in making the national conference such a success. People who assisted the team for registration, judge recruitment, and other important tasks that came up during the conference were an invaluable addition to the efforts of everyone involved. "Thank you" seems grossly insufficient for all that everyone did.

As we all head back to our regular jobs, summer vacations, families, and lives, the experiences and interactions that occurred as a result of this conference will provide me with wonderful memories for years to come. It has truly been a privilege and an honor to work with such a dedicated, hardworking group of volunteers. Next year's conference in Nashville, Tennessee will have a tough act to follow!

FREE STANDARDS-BASED CURRICULAR MATERIALS

As a member of the Center for the Advancement of Teaching Technology and Science (CATTS) Consortium, Florida educators are eligible to receive CATTS standards-based publications free of charge. The eight publications are all based on and support the national *Standards for Technological Literacy: Content for the Study of Technology*, and include model course guides, program planning, assessment, and many others for implementation of K-12 Technology Education programs. For a complete list of the publications available, please e-mail Mellissa Morrow at <Mellissa.Morrow@fldoe.org> or call (850) 245-9023.

In addition to the eight publications mentioned above, CATTS' latest products will be available at the Florida Technology Education Association conference October 18, 2003, along with a Saturday workshop and training on using the new resources *Invention and Innovation* and *Introduction to Engineering*. Please plan on attending. Conference registration information is available online at <<http://www.ftea.com>>.

TECHNOLOGY TRAINING FOR EDUCATORS

The Astronauts Memorial Foundation (AMF), a non-profit organization, provides computer technology training customized to the K-12 education environment. The following courses are available July through December 2003. Please visit <<http://www.amfcse.org>> for specific program content and registration information.

- **Windows XP Professional**

Introduced in 2003 by request from educators, AMF's first strictly operating system class will allow users to get the most out of their computers. A majority of educators are just now using XP for the first time as Windows 95/98/2000 machines are being replaced. This program is geared towards improving the Windows XP experience for users in the school environment. Hands-on activities, collaborative learning and lecture sessions will be used to present the course materials. Participants will learn about and manipulate the product in four broad categories including XP fundamentals, Networking, Security, and Maintenance.

Course Fee: \$230

Session: XP0301 – August 28, 29

XP0302 – November 6, 7

- **Flash MX**

Developed in 2003 to address the growing popularity of adding high-impact content to web pages. Flash is the standard for producing colorful and animated projects that download quickly due to their small size. This comprehensive entry-level course provides the knowledge and skills needed to begin making Flash documents. Flash MX is a complex program that is fully utilized by continued practice and learning. Lectures, discussions and hands-on activities focus on basic Flash concepts. Creating graphics and text, adding animation, using actions, ActionScripts and components, and finally putting it all together.

Course Fee: \$375

Session: FMX0301 – October 29, 30, 31

FMX0302 – December 3, 4, 5

- **Digital Video for Educators**

This three-day course is ideally suited to any educator who is interested in using or instructing teachers and/or students in producing, developing and implementing digital video in education. This course is covered through collaborative learning, hands-on activities and lecture and will be frequently updated to keep up with changing technologies. Using Adobe Premiere 6.5, participants will design, create, edit, and take home a completed digital video.

Course Fee: \$370

Session: DV0303 – September 10, 11, 12

DV0304 – November 19, 20, 21

- **Intermediate Digital Video for Educators**

This three-day course is designed for any educator who already has a working knowledge of video editing and wants to enhance their skills. Using Adobe Premiere 6.5, participants will design, create, edit, and take home a completed digital video using advanced video editing, video effects, and audio mixing. Although not a pre-requisite, it is recommended that students take the AMF Digital Video for Educators class before participating in the Intermediate version. This course is covered through collaborative learning, hands-on activities, and lecture.

Course Fee: \$375

Session: IDV0302 – October 8, 9, 10

TECHNOLOGY TRAINING FOR EDUCATORS (continued)

- **Technology Specialist**

This is a three-day course for professionals who are currently serving as, or are preparing to be, technology specialists. This comprehensive entry-level course provides the knowledge and skills needed to keep school computer systems operating smoothly. Lectures, discussions, and hands-on activities focus on hardware, software, networks, multimedia systems and documentation. Both Macintosh and Windows platforms are covered.

Course Fee: \$230

Session: TS0302 – October 15, 16, 17

- **Implementing Windows 2000 Server**

This three-day course is designed for the implementation of Windows 2000 Server in the education environment. Windows 2000 Server is a vast departure from Windows NT and this course will explore the differences and new capabilities. Topics also include Windows 2000 Server tools and Windows 2000 Server interoperability. Participants will learn how to connect and manipulate client workstations (Macintosh, Windows NT/95/98/2000 clients) and Windows NT servers on a Windows 2000 network. This program is conducted in AMF's new 2000 Lab where every participant has a 2000 Server. Class size is limited to 20 participants.

Course Fee: \$375

Session: IW2K0303 – August 20, 21, 22

IW2K0304 – December 10, 11, 12

- **Web Publishing**

This two-day course is designed to cover how to plan and create an educational website using Microsoft FrontPage and other web utilities. Trainees will learn to create impressive and informative websites using state-of-the-art instructional materials and computer facilities. Participants work at their own individual workstation. Topics include using tables to format web pages, collecting data from forms, creating and using intranets, web quizzes, and publishing web sites.

Course Fee: \$230

Session: WP0303 – September 18, 19

- **Advanced Web Publishing**

This two-day course is ideally suited to any educator with previous experience in creating websites, administering an educational website, or manipulating websites with Microsoft FrontPage. Although not a pre-requisite, it is recommended that students take AMF's Web Publishing course first. This course addresses the needs of participants who want to implement their interactive forms, databases, subwebs, frames and collaborative functions incorporated with FrontPage 2002 into their educational websites.

Course Fee: \$240

Session: AWP0303 – October 23, 24

- **Microsoft Class Server**

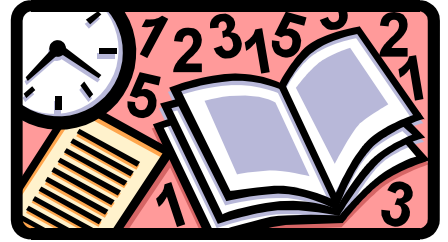
This two-day course, developed in 2002, is designed to train educators to fully utilize the Class Server product. Class Server is a web-based software solution for creating and organizing teacher lesson plans. Trainees will learn to manipulate the Class Server product, which includes creating, finding, assigning Learning Resources, creating tests and quizzes, and providing feedback. Course fee includes a comprehensive manual.

Course Fee: \$230

Session: CS0303 – September 15, 16

2003 IMPORTANT DATES for TECHNOLOGY EDUCATION

- ◆ **July 8-11, 2003** – Florida Association for Career and Technical Education (FACTE) Conference, Hyatt Orlando, Kissimmee. <<http://www.facte.org>>.
- ◆ **(August 1-2, 2003** – The Print Management Conference, Renaissance Orlando Resort at Sea World. (800) 331-0461.
- ◆ **August 2, 2003** – Florida Technology Education Association Board meeting, 5150 Eagle Boulevard, Land O' Lakes.
- ◆ **August 29-30, 2003** - Florida Technology Education Association (FTEA) and Florida Association of Technical & Industrial Education (FATIE) joint conference planning meeting, Holiday Inn International Drive Resort, Orlando.
- ◆ **October 15-16, 2003** – Florida TSA Advisor Training Workshop, Holiday Inn International Drive Resort, Orlando. <<http://www.florida-tsa.net>>.
- ◆ **October 16, 2003** – Florida Technology Education Council for Supervisors (FTECS) Meeting, Holiday Inn International Drive Resort, Orlando.
- ◆ **October 16-18, 2003** – FTEA Conference, Holiday Inn International Drive Resort, Orlando. <<http://www.ftea.com>>.
- ◆ **October 18, 2003** – Center for the Advancement of Teaching Technology and Science Instructional Materials Training, Holiday Inn International Drive Resort, Orlando.
- ◆ **November 5-8, 2003** – Florida TSA Leadership Conference, Hilton Hotel, St. Petersburg.



ADVANCED LEARNING ENVIRONMENT PROFESSIONAL DEVELOPMENT COMPONENT

The Florida Department of Education has been working with the Florida Space Research Institute to create a professional development component for teachers using the Advanced Learning Environment (ALE) online training system. The unit in Digital Electronics and Instrumentation is open to all Technology Education teachers, K-12 administrators, and pre-service educators and teachers. With this component, your district may award a minimum of twenty-two (22) in-service points for completion of all modules.

The purpose of the Digital Electronics and Instrumentation online modules is to provide participants with an understanding of the basics of digital electronics and fundamentals of instrumentation, including logic circuits, calibration, installation, maintenance, and applications. In addition, this component will increase teachers' understanding and content knowledge related to the *Standards for Technological Literacy: Content for the Study of Technology*; specifically Standard 2, Core Concepts of Technology, and Standard 12, Use and Maintenance of Products and Systems. Specifically, these modules address the knowledge and skills addressed in the Florida Technology Education Curriculum Frameworks for Technology Systems, Program 8600400; Electronics Technology, Program 8600900; and Engineering Technology, Program 8607000. Upon successful completion of this professional development component, participants will be able to: understand and connect specific key ideas regarding the basics of digital electronics; understand the characteristics of logic circuits; understand the theories, concepts and designs of electronic and mechanical instrumentation; and understand and be able to teach instrumentation principles with confidence.

For additional professional development components in Space Science and Pre-Engineering, and information on course components and registration, visit <<http://www.fsri.org/tc/content.htm>> or contact the Florida Space Research Authority at (866) FSRI-ALE or by e-mail at <ale@fsri.org>.

FREE ELECTRONIC MAGAZINE FOR TECHNOLOGY EDUCATORS

The Magazine of Design & Technology Education, *TIES Magazine* supports technology education and the integration of math, science and technology curriculum mainly in middle, junior and senior high schools. While elementary is not the focus, the magazine does support elementary teachers and shows examples of good elementary practices. The emphasis is on design and problem solving as an instructional technique.

TIES is published four times a year: September, December, March, and June and reaches over 43,000 teachers. Published on the web, you can receive your free subscription by visiting <http://www.tiesmagazine.org>. Click on the *Subscribe!* button to the left and enter your email address. You will be informed automatically when the next issue is online. In addition, you can search through their archives for activity ideas.

NEW TSA-SPONSORED ITEA SCHOLARSHIP

From TrendScout, Volume 3 #14, June 30, 2003

The Technology Student Association (TSA) and the International Technology Education Association (ITEA) are joining forces to present a new scholarship for TSA members. The purpose of the TSA-sponsored ITEA scholarship is to support the technology education profession by encouraging TSA students to pursue careers as K-12 technology teachers. Applicants must meet the following criteria: They must have: 1. Participated in an active TSA chapter for a minimum of two (2) consecutive years; 2. Served as a TSA officer at the local, state, and/or national level for a minimum of one (1) academic year; and 3. Attended and participated in at least one (1) TSA conference at the state or national level.

Each applicant must submit an application package consisting of the following: 1. A signed cover letter that includes: a) A detailed description of the applicant's involvement in TSA, based on the above criteria; b) SAT score and/or ACT score; c) High school class rank (indicate how many in the class); 2. No more than three (3) letters of reference, one of which must come from a technology teacher; 3. A single-sided, one-page typed essay on his or her career plans for becoming a teacher in the technology education profession. Completed application packages must be submitted to ITEA, 1914 Association Drive, Reston, VA 20191 by December 31. Awards are determined based upon the criteria identified above. Award selections are determined by the ITEA Award Selection Committee and are not subject to review.

Beginning with the 2003-04 school year, the TSA, Inc. Board of Directors will sponsor this award for three (3) years at the rate of one (1) \$500 scholarship per year. The award is subject to review by TSA and ITEA at the end of this period. The name of the recipient is announced at the annual ITEA conference, and the scholarship is presented at the National TSA conference. The recipient is not required to attend either conference, nor is it the responsibility of National TSA or ITEA to fund the recipient's attendance. Money awarded is sent directly to the recipient's college. The International Technology Education Association (ITEA) also presents other awards and grants that recognize outstanding efforts of ITEA members in the technology education profession. For more information, please visit the ITEA website at <http://www.iteawww.org>.

TrendScout is one electronic benefit provided by ITEA to keep members up-to-date with the latest information, directions, and activities of the technology education profession. For information about other member benefits, including journals, grants and scholarships, job placement, curriculum materials, products/services directory, career mentoring, reduced fees for ITEA's annual conference and exhibits, and much more, explore the ITEA website at <http://www.iteawww.org>.

INVITATION TO PRESENT AT STEC

From TrendScout, Volume 3 #14, June 30, 2003

Authors are invited to submit presentation proposals for the 41st Annual Meeting of the Southeastern Technology Education Conference (STEC) to be held October 3-4, 2003 in Atlanta, GA at the Gwinnett Place Marriott Hotel. Presentations are to be related to technology and technology education with a duration of 45 minutes (an additional 15 minutes may be included for each presentation for questions and discussion if time allows).

One session is planned for graduate students to present research-in-progress or preliminary results (Masters or Doctorate) with a time limit of 20 minutes per presentation. Also, if you would like to present on a topic related to the history of STEC, there are many materials from previous historians available for review.

If you or a colleague wish to present at this conference, please contact STEC President-Elect Lynn Basham. Her address is as follows: Lynn Basham, Technology Education Coordinator, Mississippi Department of Education, Post Office Box 771, Jackson, Mississippi 39205; e-mail <lbasham@mde.k12.ms.us>.

FREE NASA PROGRAMS MAKE LEARNING MATH, SCIENCE, AND TECHNOLOGY FUN

NASA's Center for Distance Learning <<http://dlcenter.larc.nasa.gov>> offers a variety of award-winning programs that provide research, inquiry, and standards-based enrichment of math, science, and technology to students of all ages. These free programs are not copyrighted, and broadcast and off-air rights are unlimited and granted in perpetuity. Programs include:

- **NASA Kids' Science News Network** <<http://ksnn.larc.nasa.gov>> – For grades K-2 and 3-5, the network presents 1-minute videos that answer a math, science, or technology question and offer a visual explanation.
- **NASA Science Files** <<http://www.scifiles.larc.nasa.gov>> – For grades 3-5, these programs emphasize problem-based learning and scientific inquiry. Program components include a 60-minute broadcast; an educator guide with objectives, vocabulary, activities, worksheets, and an interactive web site.
- **NASA CONNECT** <<http://connect.larc.nasa.gov>> – For grades 6-8, this series presents math-focused programs that show students how math, science, and technology concepts are taught in the classroom and how they connect with concepts that are used in the real world.

HIGH SCHOOL STUDENTS “LICENSED” TO SPEED ON VERY ROUGH TERRAIN

Where do high school students have license to race at top speed across rough terrain? At NASA's 10th annual “Great Moonbuggy Race” in Huntsville, Alabama. Of course, picking up speed is difficult when you're pedaling a vehicle with bicycle-tire-size wheels on a race-track pockmarked with 17 obstacles, hills, curves, and a giant moon-like crater filled with rocks. This year, 30 high school teams from nine states used brains and athletic ability to take on the 1.5-mile moonscape race-track. By race day, the teams had worked together almost a year – designing and building their buggies and learning how to operate them smoothly. Each vehicle had to meet certain design requirements, such as the ability to fold up to the size of a 4-foot cube – one of the same design challenges once faced by engineers at NASA, who designed the lunar rover for Apollo astronauts to drive on the Moon.

This year's race included three- and four-wheel buggies in a variety of designs, including side-by-side drivers and back-to-back peddlers. According to race rules, each buggy was designed to be powered by one male and one female driver, who worked together to drive it across the challenging course, racing the clock to turn in the day's best time. Before each moonbuggy got the green light to race, however, NASA experts inspected the design and deemed the buggy safe and ready to take the track. This year's award for best moonbuggy design went to the team from the Huntsville Center for Technology in Huntsville, Alabama. For more details, visit <<http://www.moonbuggy.msfc.nasa.gov>>.

FUNDING OPPORTUNITIES

• **FLORIDA SPACE GRANT CONSORTIUM**

Program: The Aerospace Education Program, sponsored by the Florida Space Grant Consortium (FSGC), is designed to provide aerospace education experiences for Florida's K-12 students. Teaming with government and industry professionals is encouraged. The primary goal of this program is education enhancement through real-life aerospace-related activities. This program will provide supplementary funds for a teacher to implement an aerospace education project in their classroom.

Deadline: Proposals are due no later than 5:00 PM via mail or courier to the FSGC Office on October 1, 2003. Awards will be announced by mid-October, 2003.

Funding: FSGC has allocated \$5,000 for this program. Individual grants should not exceed \$500. Funds may be used for any valid expenses related to curriculum materials and supplies. These funds are not to be used to cover faculty salaries or student tuition. Up to \$100 of the funds may be used for travel to the Florida Technology Education Association annual conference (or other similar gathering) to present the program results to other interested teachers.

Eligibility: All K-12 teachers who will be teaching in Florida during the 2003-04 school year are eligible to participate in this program. A teacher may propose alone or as a member of a team of teachers.

Contact: More information is available by contacting Dr. Jaydeep Mukherjee, FSGC Administrator, Florida Space Grant Consortium, Center for Space Education, Building M6-306, Room 7010, Mail Stop: FSGC, Kennedy Space Center, Florida 32899; e-mail <fsgc@mail.ucf.edu>.

• **NORTHROP GRUMMAN FOUNDATION**

Program: The Northrop Grumman Foundation is committed to supporting diverse and sustainable programs that create innovative education opportunities. Our priority is to provide assistance to literacy, math, science, and technology programs spanning pre-college through collegiate levels.

Deadline: Grant requests are accepted and reviewed throughout the year. The foundation's fiscal year is May 1 through April 30.

Eligibility: The Northrop Grumman Foundation contributes to organizations defined as tax exempt under Section 501(c)(3) by the Internal Revenue Service.

Contact: More information is available at: <http://www.northropgrumman.com/com_rel/cr/foundation.html>.

• **NSF INFORMAL SCIENCE EDUCATION PROGRAM**

Program: The National Science Foundation is accepting proposals for activities to provide rich and stimulating opportunities outside formal school settings where individuals of all ages, interests, and backgrounds increase their appreciation and understanding of Science, Technology, Engineering, and Mathematics (STEM). Grants for collaborative projects, planning, conferences, and exploratory research are available.

Deadline: August 15, 2003.

Funding: Total \$3 million for up to five awards.

Eligibility: Individuals and organizations in the following categories: colleges and universities; non-profit, non-academic organizations; for-profit organizations; state and local governments; and unaffiliated individuals.

Contact: Website, <<http://www.nsf.gov/pubs/2003/nsf03511/nsf03511.htm>>.

OTHER FUNDING OPPORTUNITIES

• **BOEING CORPORATION**

Boeing accepts applications for not only cash grants, but for donations of surplus goods like computers and office equipment and services including loaned employees, printing, graphics, technical support, and transportation. The Boeing Company is a committed and long-standing supporter of education institutions and programs. Involvement covers a wide range of activities as well as financial support. The largest single block of company contributions goes to education, including K-12 and college and university programs across the nation and in the countries where Boeing has operations. In addition to school support, Boeing is committed to a performance-based educational system and is involved in initiatives at local, state and national levels. The company contributes to educational reform through corporate and personal leadership and financial support. For more information, visit <<http://www.boeing.com/educationrelations/>>.

WEBSITE MATCHES TEACHERS WITH DONORS

A website gives teachers the ability to request donations from individuals and businesses. These donations include everything from televisions/VCRs/camcorders through crayons and construction paper: anything a teacher needs to fulfill their goal of teaching their students. The <<http://iloveschools.com>> contains over 95,000 public schools in its database and allows any school to register to begin receiving donations.

REQUEST FOR ARTICLES

The Tech Flash newsletter is a monthly electronic newsletter designed to keep you informed about what's happening in Technology Education both in Florida and around the country. You can register for this free service from the Planet TE web page at <http://www.myfloridaeducation.com/programs/te_planet.htm>. Tech Flash enables participants to communicate, share ideas, and to keep abreast of what is happening in this exciting, constantly changing profession.

In order to continue to provide updated information about what's happening in Technology Education, your assistance is needed. Please submit articles, awards, news, grants and funding, activities, photographs, employment opportunities, and other information of interest to technology professionals to Mellissa Morrow at <Mellissa.Morrow@fldoe.org>.

Issue Number 159

July 2003

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**Registration is available on the
Internet at**

<http://www.myfloridaeducation.com/programs/te_planet.htm>