



TIDE

Inside

Technology, Innovation, Design, and Engineering

Monday, March 17, 2008

Thank You!

If you attended the recent ITEA conference in Salt Lake City, **thank you**. If you were a volunteer, **thank you**—we couldn't have done it without you! Salt Lake City conference photos are now available. You can view and download them (for free) by visiting ITEA's home page at www.iteaconnect.org.

Also, **thank you** for completing the **post-conference survey** you should have received via email. Your thoughts and comments will assist the program committee and staff in providing great programs in the future. And be sure to mark your calendar for **next year's conference in Louisville, Kentucky, March 26-28, 2009**.

Would YOU Like to be a Presenter in 2009?

Delivering the T & E in STEM – that's the 2009 conference theme. ITEA's 71st Annual Conference and Exposition will be held in downtown **Louisville, Kentucky on March 26-28, 2009** and **YOU are invited to become a presenter**. Presentation information is now available on the ITEA website at www.itea-connect.org/Conference/apptopresent.htm. Click on the link near the top of the page to access the online application form.



The 2009 conference theme strands are:

TECHNOLOGY – Presentations within this track will focus on classroom activities, curriculum, instruction, or research with emphasis on teaching about aspects of the sectors of the designed world such as construction, communication, manufacturing, energy and power, transportation, medical, or agricultural and related biotechnologies.

INNOVATION – Presentations within this track will focus on classroom activities, curriculum, instruction, or research with particular emphasis in teaching about innovation as a major focus of instruction.

DESIGN – Presentations within this track will focus on classroom activities, curriculum, instruction, or research with particular emphasis in teaching about design as a major focus of instruction.

ENGINEERING – Presentations within this track will focus on classroom activities, curriculum, instruction, or research with particular emphasis in teaching about engineering concepts for technology educators.

STEM INTEGRATION – Presentations within this track will focus on classroom activities, curriculum, instruction, or research with particular emphasis on the integration of STEM content in the K-12 curriculum.

Don't delay! The deadline for submission of the Application to Present is June 15, 2008.

Inside TIDE is a free service of



The International Technology Education Association

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ITEA Dues Increase July 1, 2008!



*Join or renew now and save.
 Dues increase to become effective July 1, 2008.*

ITEA strives to hold down the cost of membership and still provide the highest level of services and resources to our members. This is reflected in the fact that there has not been an increase in dues since 2003, and previous to that since 1996.

Due to changes in our economy and continued rising costs, it is necessary at this time to raise dues to meet the ever-increasing needs of our members.

Effective July 1, 2008 dues will be:

Individual Memberships		Group Memberships	
Professional		Elementary School	\$160
U.S.	\$80	Institutional (University)	\$240
Canada/Mexico	\$85	Corporate	\$400
Other International	\$90	Museum	\$240
Passport (electronic International Professional)	\$55	<i>Journal of Technology Education Subscriptions</i>	
Student (Graduate and renewing Undergraduate)	\$40	U.S. (effective immediately)	\$15
First-time Undergraduate Student	\$35	International (effective immediately)	\$20
Advocate	\$40		

Council memberships (CTTE, CS, and TECC) will remain unchanged.

Join ITEA now or renew ahead at the current rates through June 30, 2008. Use your credit card to renew by phone (703-860-5032), mail (1914 Association Drive, Suite 201, Reston, VA 20191), or online at ITEA's eStore (www.iteaconnect.org/Membership/membership.htm). Checks will be accepted by mail only, and Purchase Orders will be accepted by mail or fax (703-860-0353). A printable application form is available at www.iteaconnect.org/Forms/MembershipApp.pdf.

See Your Students or Program Recognized on the ITEA Website!

There is a new feature at www.iteaconnect.org – ITEA will post student and program recognition items and/or photographs on its home page each week. Submitted items should be summarized with a link to the full story.

Items can be submitted electronically to kdelapaz@iteaconnect.org or mailed to ITEA, Attn: Katie de la Paz, 1914 Association Drive, Suite 201, Reston, VA 20191.

Gain recognition for your students and program—thousands of people visit the ITEA website each month!

We've done the homework for you ...



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ITEA Councils Elect New Officers

Congratulations to all of ITEA's recently elected council officers as well as to those returning for additional terms. Council leaders for 2008 are:

ITEA-CS

- Dennis Soboleski, President
- John Brown, President-Elect
- Greg Kane, Past President
- Barry N. Burke, DTE, Secretary/Treasurer
- Melvin Robinson, Communications Chair
- Ed Taylor, Program Chair
- Doug Miller, ITEA-CS Director

CTTE

- Richard D. Seymour, President
- Chris A. Merrill, Vice President
- Phillip A. Reed, Secretary
- John G. Wells, Treasurer
- Michael A. DeMiranda, CTTE Director

TECA

- Hannah Burdette, President
- Stephan Brumbaugh, Vice President
- George Lavelle, President-Elect
- Al McArthur, Reporter
- Matt Gardner, Secretary
- Andy Klenke, TECA Advisor
- Peter Wright, ITEA/TECA Director
- Richard D. Seymour, Competition Coordinator

TECC

- Marlene Scott, President
- Terri Varnardo, Vice President – Communication
- Patrick Jones, Vice President – Program
- Janis Churchill, Secretary
- Wendy Ku, Treasurer
- Jared Berrett, TECC Director

Technology Education?

The **International Technology Education Association's (ITEA)** voting membership will soon have the opportunity to provide direct input to the association's Board of Directors pertaining to the name change discussion that has been occurring within the profession during the past few years. ITEA's President, **Dr. Len S. Litowitz, DTE**, noted that, "The electronic world allows our Board to get input from its members faster and easier than ever before, which is why we are seeking the members' opinions with the name-change discussion." Litowitz noted the importance of an association's listening to the wants and needs of its members and then trying to do something about them if there is merit for the majority of the members.

Voting members will soon be receiving an invitation to respond to a survey that has been constructed to seek input. The questions will relate to the member's own situ-

ation and the names that are currently being used. Questions about the nature of the content being used in the classrooms will be requested, and descriptions of words that best characterize the direction of that content will be of interest through the questioning process.

The results of this survey will be available upon completion and will serve as a basis for Board and profession discussion in the months ahead. It is expected that the survey, which will be totally electronic, will be completed within the next month. ITEA members will be able to access the results upon completion through regular ITEA communication programs.

For more information, please contact itea@iteaconnect.org.



ITEA's TIDEWatcher Activities to Expand

The **International Technology Education Association (ITEA)** is currently expanding its governmental relations initiatives by creating a communications network comprised of individuals from each state working to support and react to directions, policy, and initiatives that will promote the work of technology, innovation, design, and engineering educators. This work will be led by **Dave Janosz** (NJ) in conjunction with ITEA headquarters staff. ITEA President, **Dr. Len S. Litowitz, DTE**, stated that, "This effort is just another in a list of initiatives that the associa-

tion plans to pursue in the coming months to create a stronger presence with groups outside of our profession."

Litowitz further noted that, "The strength of this communications effort will depend upon the amount of support that each state will be able to give in terms of professional educators who will communicate with elected officials each time a key issue or initiative is deemed worthy of a response by members of the profession." The network is currently being created through communications with ITEA's affiliates. The leadership provided by Janosz will mirror many of his efforts in New Jersey, where the state has been a leader in governmental relations activities.

Professionals who would like to be a part of this network or learn more about this effort should contact itea@iteaconnect.org.

ITEA Membership

Protection for you — and it's on us!

As a **new** ITEA member you are eligible to receive \$60,000 of term life insurance* for **six months** at no cost to you! We are pleased to provide this protection for you. It is just one of the many benefits of association membership. You'll also have opportunities to purchase additional term life insurance and other important insurance coverages at affordable group rates through our insurance partner, **Forrest T. Jones & Company**.

Take advantage of this benefit—available only to new members! Join now!
www.iteaconnect.org/Membership/membership.htm.

Correction from last issue.
We apologize for any inconvenience.

*subject to carrier underwriting approval

ITEA Expands Its Connections

ITEA's President, **Len S. Litowitz, DTE**, is leading an effort to increase the number of technology teachers who are receiving the association's publication called **Inside TIDE**. Yes, **Inside TIDE** is the publication you are currently reading, but did you know that **Inside TIDE** is one of the profession's main communication avenues, for it goes to any person who is interested in teaching about technology, innovation, design, and engineering (TIDE)? Wouldn't you like to help your colleagues stay in touch with the field and be informed about the key initiatives that are occurring at any one time? Let them know that they can contact ITEA at www.iteaconnect.org/Forms/insideTIDEform.htm to subscribe. There is no cost for receiving **Inside TIDE**.

Dr. Litowitz would like to encourage "current **Inside TIDE** subscribers to take the initiative to involve their colleagues by getting them on this mailing list to receive information about the field, become aware of additional resources, and share in a network that is designed to help teachers become their best." Please contact ITEA via email at itea@iteaconnect.org if you have any questions about **Inside TIDE**.



Website to Aid Search for Technology Teachers

Facing the retirement of over half of its own workforce statewide over the next few years, technology education professionals and their supporters are launching www.TeachTechNJ.org, a website dedicated to the recruitment of individuals into the profession. Data collected by the **New Jersey Technology Education Association (NJTEA)** shows that New Jersey will need at least 900 technology education teachers by 2015 just to keep up with the pace of retirements from the field.

Engineers, architects, and industrial designers looking for a career change may find the site of interest if they are exploring a career in teaching. Degree holders in these fields qualify for alternate route certification in technology education. Educators and guidance counselors can find resources on how to help their current students into

the field, as well as contact information for those currently in undergraduate programs who are willing to assist in the college selection process.

TeachTechNJ.org will allow individuals and groups to have ready access to information that previously was spread over a variety of different outlets and was often-times difficult to locate. The website offers an overview of technology education and the most accurate information for anyone seeking to pursue a career in the field. Specific information about the Praxis exam, alternate route certification, undergraduate degree programs, transferring from and to college programs, and mentoring opportunities are easily accessible to all audiences. **TeachTechNJ.org** also offers a jobs board where applicants can post their candidacy and districts can post their openings.

And Be Sure to Check Out These Other Great Websites

- A "crazy cool" new engineering portal site for middle school students and educators on the how and why of becoming an engineer can be found at <http://discoverengineering.org>.
- The **Technology Education Association of Maine (TEAM)** also has a new website: <http://web.mac.com/meteched/iWeb/TEAM/Home.html>.

NASA Announces No Boundaries National Competition

The goals of **NASA Education** are to develop a workforce of the future, attract and retain students in science, technology, engineering, and math (STEM), and find the best and the brightest young people. All students should know that working at NASA in the STEM fields is an achievable goal; however, it requires that students be educated, curious, creative, and resourceful. This project will introduce students to the limitless opportunities at NASA and, hopefully, encourage them to work toward the STEM careers that are vital to the growth and economic security of the country.

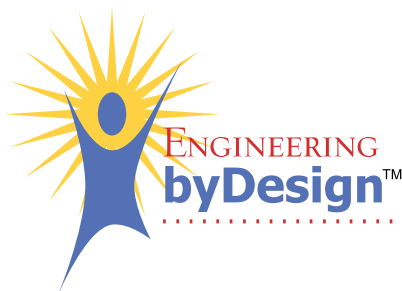
For this project, teachers will assign student groups (of four) one of the STEM fields. Each group will then use graphic organizers and links on the **No Boundaries** website to research one NASA career in their assigned field. Next, individual groups will develop and present a project (brochure, website, PowerPoint™, newspaper, etc.) that markets their assigned career to teens. Classes will combine each group's best work into a project that can be entered in the **No Boundaries National Competition**. The three (3) schools selected as

the **No Boundaries** first, second, and third place winners in the competition will be awarded education grants for their schools in the amounts of \$1,000, \$500 and \$250 respectively. Winners may be asked to present their project to NASA officials.

You may access this free STEM career exploration program at www.usatoday.com/educate/NASA. The **No Boundaries** flyer can be downloaded from www.usatoday.com/educate/NASA/images/NASA_Flyer.pdf.

PTC DesignQuest Challenge

The **PTC DesignQuest Challenge** is a global contest that is open to all students whose school or university is currently enrolled in the PTC Global Education Program, using Pro/ENGINEER or Pro/DESKTOP. This is an opportunity for all eligible students to participate in the DesignQuest Challenge and compete for great prizes and the chance to be the 2008 PTC Global Education Program Grand Prize Winner. Contest rules and requirements are available at www.ptc.com/WCMS/files/63076/en/Design_Challenge_Form_of_Rules.pdf. **The submission deadline is March 30, 2008.**



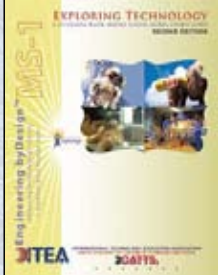
NEW PUBLICATION FROM ITEA

**Exploring Technology:
A Standards-Based Middle School Model Course Guide
(Second Edition)**

Provides students with opportunities to apply the design process in the invention and innovation of a new product, process, or system. Students participate in activities to understand how criteria, constraints, and processes affect designs. They learn about brainstorming, visualizing, modeling, construction, testing, experimenting, and refining designs. Students also develop skills in researching for information, communicating design information, and reporting results.

Exploring Technology includes the following units:

- UNIT 1: TECHNOLOGY IN MOTION
- UNIT 2: DESIGN AND ENGINEERING
- UNIT 3: HUMAN EXPLORATION
- UNIT 4: GREENHOUSE DESIGN



Hurry! Special price expires 3/31/08.

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2008 Global Marathon For, By, and About Women in Engineering

24 Hours of Virtual Online Programming "Follows the Sun" Around the Globe

The fourth annual "Global Marathon For, By, and About Women in Engineering," providing information and insight for women worldwide on careers in engineering and technology, will "follow the sun" and the business day around the globe from Noon EDT **Wednesday, March 26** to Noon EDT **Thursday, March 27**.

Coinciding with **Women's History Month** and as an extension of **Introduce a Girl to Engineering Day**, the 2008 Global Marathon at www.eweek.org features six continuous four-hour blocks of virtual online programming, kicking off in North America and proceeding westward

through five additional regions – Mexico/Latin America, China, India, Africa/Middle East, and UK/Europe before returning to North America for closing ceremonies.

The 24-hour marathon of Webcasts, Internet chats, and teleconferences will connect an international community of women in engineering, technology, and other professions with expertise in a variety of disciplines on the benefits and wide-ranging possibilities of careers in science, technology, engineering, and mathematics. Each presenter will lead a 30- to 60-minute presentation, with postings and questions from participants worldwide.

Apply Now for the 2008 Thacher Scholars Awards

The Institute for Global Environmental Strategies is currently accepting entries for the 2008 Thacher Scholars Awards. The awards will be given to **students in Grades 9-12** who demonstrate the best use of geospatial technologies or data to study Earth. Eligible geospatial tools and data include satellite remote sensing, aerial photography, geographic information systems, and the Global Positioning System. The main focus of the project must be on the application of the geospatial tool(s) or data to study a problem related to Earth's environment.

Entries can be submitted by individuals or teams. Cash awards will be given to students in the top three places. Awards will also be given to the winning students' teachers.

For eligibility or other information, visit www.strategies.org/education/index.aspx?sub=education&sub2=scholars&sub3=scholars2008 or email questions to ThacherScholars@strategies.org. Entries must be postmarked by **April 4, 2008**. Entries may also be submitted electronically.

NASA Opportunities for Students

Athletic Training Internships at Kennedy Space Center

The **Kennedy Space Center RehabWorks Program** offers athletic training internships to juniors, seniors, and graduate students, with preference being given to undergraduates. This opportunity is a 40-hour-a-week internship that focuses on physical medicine and musculoskeletal rehabilitation. Each student will be challenged with hands-on evaluations, rehabilitation design, educational outreach, and injury prevention. The internships are part of the KSC Volunteer Services Program. Participants are not compensated.

Due to heightened security and extended requirements for security clearances, applicants must be U.S. citizens. **The application deadline for the summer 2008 semester is March 28, 2008.** For more information, visit <http://rehabworks.ksc.nasa.gov/about/internships/> or email questions to erik.t.nason@nasa.gov.

NASA Space Settlement Design Contest

Design a space colony! Space colonies are permanent communities in orbit, as opposed to being on the moon or other planets. Designing a space colony involves physics, mathematics, space science, environmental science, and many other disciplines. This contest is for 11-18-year-old students from anywhere in the world. Individuals or teams may enter. Grades 6-9 and 10-12 are judged separately, except for the grand prize. All participants will receive a certificate. Prizes will be awarded to winning entries.

Submissions must be received by March 31, 2008.

For additional information about the contest, visit www.nas.nasa.gov/About/Education/SpaceSettlement/Contest/. If you have questions about this competition, please email Wenonah.A.Vercoutere@nasa.gov.

Nominate a K-12 Teacher for the 2008 American Stars of Teaching Awards

The **U.S. Department of Education** continues to honor exemplary classroom teachers as the **American Stars of Teaching**. Those honored are successful in using innovative teaching strategies and raising student academic achievement. These teachers will be highlighted as representatives of the thousands of teachers who are making a difference in the classroom. One teacher from each state and the District of Columbia will be selected. Officials from the U.S. Department of Education will visit

the classes of each winner to congratulate them on their success.

For more information about the awards and to nominate an exceptional teacher, visit www.t2tweb.us/AmStar/About.asp. Questions about the awards may be sent to TeacherQuality@westat.com. **Nominations will be accepted through March 31, 2008.** Winners will be announced this fall.

NASA Opportunity for Educators

Applications Available for Lunar and Planetary Institute 2008 Field-Based Workshop

"Floods and Flows: Exploring Mars Geology on Earth," a NASA-sponsored workshop for educators, will be held **July 13-19, 2008**. Spend the week with planetary scientists visiting the site of ancient Glacial Lake Missoula and tracing its flood waters through Montana, Idaho, and into Washington. From these field experiences and accompanying classroom activities, participants will build an understanding of surface processes on Earth, including water flow, volcanism, glaciation, and sedimentation. Attendees will extend their understanding to interpret what the features on the surface of Mars suggest about the past environments and history of the Red Planet.

The experience will be divided between the field and lab, where participants work with classroom-tested, hands-on, inquiry-based activities and resources that can be used to enhance Earth and space science teaching in the classroom. Participants receive lesson plans, supporting resources, and presentations.

Applications are due April 7, 2008. For more information about the workshop and to submit an application online, visit www.lpi.usra.edu/education/fieldtrips/2008/floods20081st.shtml. Questions about the workshop may be sent to bnelson@lpi.usra.edu.

ETS Seeks Educators' Assistance

Educational Testing Service (ETS) is seeking active teachers and teacher educators to apply to serve as members of the **National Advisory Committee for the Praxis Technology Education test**. ETS is seeking educators to assist in updating and validating our Praxis Technology Education test. Committee selections will be made to ensure that the committee is representative in terms of race, gender, geographical location, and experience.

The Praxis Series is designed to provide a system of thorough, fair, and professionally validated tests and assessments for states to use as part of their teacher licensure process. The Praxis Series tests are designed to measure the candidate's general and specific academic skills, subject area, and pedagogical knowledge.

The committee will be expected to attend two committee meetings. The first meeting will focus on the development of job analysis statements, and the second meeting will focus on the development of test specifications. The first meeting of the committee will be held in Princeton, NJ on **May 16-18, 2008** and will provide an Honorarium of \$250/day (\$125 half-day), all-expenses paid travel, and 20 Professional Development hours. The second meeting will be held in the fall at mutually-agreed upon dates.

You may apply online at www.ets.org/praxiscomm.html.

When applying, please make sure to select the National Advisory Committee button and NOT the Standing Committee button.

Conference Opportunities

March 28-29, 2008 The Ohio Technology Education Association (OTEA) Annual Spring Conference will be held at Worthington Kilbourne High School in Worthington, OH. The conference will be an extension of the 2007 OTEA Fall Conference, with topics of discussion focusing around STEM and other educational topics. Visit www.otea.info for the latest details.

April 4, 2008 The 50th Spring Conference of the Department of Technology at the University of Southern Maine and the Technology Education Association of Maine (TEAM) will take place at the John Mitchell Center, Groham campus, USM. Details and the registration form are available at <http://web.mac.com/meteched/iWeb/TEAM/Spring%20Conference.html>. Please respond no later than Wednesday, March 28, 2008.

April 12-16, 2008 TRIZCon 2008 will be held at Kent State University and hosted by the College of Technology, KSU Regional Development, and the KSU College of Arts and Science. A special event for K-12 teachers is a free Preconference Workshop and tutorial to learn the basic concepts, principles, and practical tools of the *Theory of Inventive Problem Solving (TRIZ)*. Additional information can be found at www.aitriz.org/ai/index.php?page=2008/trizcon2008&article=pre_post_conference.

April 13-16, 2008 The 13th Annual Technology in Education Conference and Tech Exposition, TechEd 2008, will take place at the Ontario Convention Center in Ontario, CA. The Community College Foundation is calling for presentations for this event, the theme of which is *Realizing the Vision*. A full description of topics and the abstract submission process is available online at www.TechEdEvents.org/2008. Registration is now open, and the Program is available.

April 27-30, 2008 The inaugural conference of the Canadian Network for Innovation in Education (CNIE), *Reaching New Heights: Learning Innovation*,

June 15, 2008 Deadline for applications to present at ITEA's 71st Annual Conference in Louisville, KY, **March 26-28, 2009**. The 2009 conference theme is "*Delivering the T & E in STEM*," and the conference presentations will consist of five subthemes that address the following topics: "*Technology*," "*Innovation*," "*Design*," "*Engineering*," and "*STEM Integration*." For complete presenter application information, visit www.iteaconnect.org/Conference/apptopresent.htm.



will take place in Banff, Alberta, Canada. Information can be found on the conference website at www.athabascau.ca/CNIE-RCIE/.

May 1-2, 2008 The 22nd Annual New Jersey Technology Education Association (NJTEA) Conference and Expo, *Preparing the Next Generation for Technology Education*, will take place at the Hyatt Regency in New Brunswick, NJ. Visit the new website at www.njtea.org for the latest information. Online registration is available at www.registerme123.com/njtea. Special preregistration prices expire on April 14. Questions? Email events@njtea.org.

May 8-10, 2008 The Ontario Council for Technology Education's (OCTE) 2008 conference, *Technological Education: Knowledge You Can Use, Real Knowledge Real Skills Real World*, will be held at the Nottawasaga Inn in Alliston, Ontario. Registration prices go up after April 24, 2008. Conference information can be found at www.octe.on.ca/conference08.shtml; or contact Joe Hogan, conference chair, at joe.hogan@rogers.com.

May 12, 2008 The Connecticut Technology Education Association (CTEA) will hold its 75th Anniversary Spring Conference at the CCSU Student Center. Look for details at www.cteaweb.org or contact Jerry Stevens, CTEA Conference Chair, at gstevens@monroeps.org or 203-452-2281.

May 31-June 4, 2008 The annual meeting of the Astronomical Society of the Pacific will be held in St. Louis, MO. Education and outreach professionals will gather to discuss international, regional, and local programs for the International Year of Astronomy in 2009. This special

event celebrates the 400th anniversary of the astronomical telescope. For more information about the conference, visit www.astrosocty.org/events/meeting.html. Questions about the conference may be sent to 2008meeting@astrosocty.org.

June 28-July 2, 2008 The 30th Anniversary National TSA Conference, *TSA, Imagine It!* will take place at the Rosen Shingle Creek Resort in Orlando, FL. Featuring Advisor Updates, the Alumni Senior Reception, an Awards Ceremony, Competitive Events, the DuPont Leadership Academy, an Education Fair, General Sessions, National Officer Elections, Special Interest Sessions, and State Delegation Meetings, not to mention the multitude of famous attractions in and around Orlando, TSA's 30th Anniversary celebration is one you won't want to miss! For additional conference details or to view the 2008 National Conference Information Booklet, visit www.tsaweb.org.



July 4-6, 2008 The Second International Symposium on Educational Cooperation for "Industrial Technology Education" – *Developing Human Resources for Making Things*, will be held at Karlya City Industrial Promotion Center in Karlya City, Japan. Visit www.auetech.aichi-edu.ac.jp/site2008 for details.