



TIDE *Inside* E

Technology, Innovation, Design, and Engineering

Wednesday, September 19, 2007

Don't Miss This!

- Teacher Astronaut Barbara Morgan
- Dr. Robert Ballard
- Dr. Steve Petrina
- Dr. James LaPorte

What do these respected individuals have in common?

These and other sensational session speakers await you at *Teaching TIDE with Pride*—**ITEA's 70th Annual Conference** in Salt Lake City, February 21-23, 2008.

Everything you need to know about the 70th Annual ITEA Conference in Salt Lake City is there for you at www.iteaconnect.org/Conference/conferenceguide.htm. Whether you are looking for details on the compelling general sessions with teacher astronaut Barbara Morgan and Dr. Robert Ballard, founder of the JASON Project, details on the programming available for CTTE, TECC, TECA, CS, EPT, CATTs, and Engineering by Design™, information on the specialized conference workshops and educational tours, a glimpse at the exhibiting companies, registration, or housing information—it's all there for you on the ITEA website.

Ready to Secure Your Housing?

ITEA Conference Housing is now open, and the ITEA hotels (Marriott Downtown, Radisson Downtown, and Plaza at Temple Square) are offering rates from \$109 to \$149, the best you will find in the area. At these prices, the hotel room blocks will fill quickly, so don't delay in making your reservations. Specific details are available at www.iteaconnect.org/Conference/housing.htm.

ITEA Membership

The biggest association membership benefit over the years will be networking with colleagues who make you think, share, and challenge you to be your best.



Ready to Register?

To stretch your budget dollars, be sure to take advantage of the special preregistration pricing. ITEA Professional Members pay \$269 for full conference registration prior to January 18 (\$309 on-site), and Student Members pay \$59 in advance (\$69 on-site). Nonmembers pay \$349 in advance and \$389 on-site. Encourage your colleagues to become ITEA members in order to take advantage of these great preregistration rates. A printable registration form is available at www.iteaconnect.org/Conference/registration.htm (online registration coming soon...).

This is one conference you won't want to miss, so mark your calendar and make plans now to attend.

And remember this date—January 18, 2007. This is not only the preregistration cut-off date, but also the reservation deadline for housing in ITEA's room block. (The conference is almost one month earlier this year, so preregistration and housing deadlines are earlier as well.)

Inside TIDE is a free service of



The International Technology Education Association

Brought to you by



ITEA Members Pass Bylaws Change

ITEA's professional and life members have approved a measure, via ballot, to change the organization's bylaws. The change includes expanding leadership initiatives in the teaching of and learning about technological literacy to include **technology, innovation, design, and engineering (TIDE)** education. ITEA has been using the TIDE acronym for the past few years to accurately describe the

curriculum area being served by the profession. Ninety-four percent of respondents approved the change.

Other changes included the adjustment of membership categories to include "advocate" and "museum" memberships that will be promoted in the coming years. Part of ITEA's mission is to reach out to individuals or organizations that, while not

directly involved in classroom teaching, do have an interest in promoting technological literacy. Finally, adjustments were approved that simplify the descriptions of duties of ITEA Board of Directors positions.

The updated ITEA Bylaws may be accessed by entering "Members Only" from the ITEA website at www.iteaconnect.org.

Technology Teacher Article Reprints Now Available for Sale

Due to repeated requests, ITEA is now making individual articles from past issues of *The Technology Teacher* available for sale. Over 30 articles are currently being offered at a cost of \$5.00 per single copy for an ITEA member or \$8.00 for a nonmember. Multiple-copy discounts are also available. All prices include shipping. Titles, descriptions, pricing, and ordering information can be found at www.iteaconnect.org/Publications/ReprintPricing.pdf.



EXPERIENCE ENGINEERING AND MAKE A DIFFERENCE!

Attention Teachers!

- Are you looking for a program to enhance your high school science, technology, engineering or math curriculum?
- Are you looking for a design competition where your students do more than build just another robot?
- Would you like to win a trip to Washington, DC or cash for your school?

Try the NEDC...a free design competition where teams of high school students create Assistive Technology devices to help people with disabilities.

Registration opens September 5th!

www.jets.org/nedc



National Engineering Design Challenge

Your students will:

- Experience engineering while helping others;
- Increase their disability awareness;
- Reach out in their community.



The NEDC is a program of **JETS**
To learn about other programs go to www.jets.org.

STS-118 Education Design Challenges Available!

ITEA and NASA Partner Again to Promote STEM

In conjunction with the August 8, 2007 launch of STS-118 and the first Educator Astronaut, Barbara Morgan, in space, ITEA and NASA recently debuted **STS-118 Design Challenges**. These challenges are available for elementary, middle, and high school and revolve around a lunar plant growth chamber to help supplement the diet of astronauts while living and working on the moon, as well as provide a sense of "home." These interactive, electronic Design Challenges are now available together on one CD from ITEA for an introductory cost of \$9.50. The Design Challenges include lessons, student and teacher resources, assessments, and materials lists. Moreover, the units integrate with the ITEA model program for technological literacy known as **Engineering byDesign™**. To order CDs, contact ITEA at 703-860-2100. Shipping charges of \$2 per CD apply.



Design to Blame?

With rescue crews evolving into recovery units in Minneapolis, the nation's attention turns to two things: mourning the victims and contemplating the cause of July's tragic bridge collapse. Already, many state agencies around the country—including Ohio and Massachusetts—are examining bridges with similar, antiquated underdeck truss arch designs. The federal government is also prepping to enforce new, long-in-development engineering safety standards. Meanwhile, *The Los Angeles Times* has a look at what role design may have played in the falling of the I-35W bridge in Minnesota: www.latimes.com/news/print/edition/asection/la-na-engineering3aug03,1,3187536.story?coll=la-news-a_section.

Source: **designBytes**, the electronic newsletter of the Industrial Designers Society of America (IDSA), Aug. 6, 2007.



Think You're Prepared? Think Again.

If you don't have *THE* technological literacy standards document for student assessment, professional development, and programs, you're not fully prepared to implement standards-based learning in your K-12 laboratory classroom.

Advancing Excellence in Technological Literacy is the companion document to *Standards for Technological Literacy* and, like *STL*, is based on the vision that all students can and should become technologically literate.



For the month of September, when you order AETL, you will receive a copy of the accompanying Executive Summary, FREE!

Advancing Excellence in Technological Literacy: Student Assessment, Professional Development, and Program Standards
 Price: \$30.50 (CD \$24.50)
 Member Price: \$25.50 (CD \$20.50)

Order before September 30, 2007 by calling 703-860-2100. Shipping fees apply.



Opportunities

Over the course of the last several weeks, ITEA has received information on a number of opportunities and resources available to technology education teachers and students. Here are just a few...

2007-2008 National Engineering Design Challenge

The JWOD/JETS National Engineering Design Challenge (NEDC) is a competition educating young people about careers in engineering, raising social awareness, and inspiring a spirit of engagement and a willingness to help others. NEDC is a team competition in which students use their creativity and problem-solving, math, science, research, writing, presentation, and drafting/design skills to create a real-life assistive technology (AT) device to help individuals with disabilities succeed in the workplace and achieve independence in their lives.

Winning students have an opportunity to travel and win recognition for their creativity as well as cash for their school's sponsoring department. Details are available from the [links on pages 1 and 2](#) of this newsletter. Registration closes **October 26, 2007**.

Elementary Resources

The **Children's Engineering Educators (CEE)** website makes resources readily available for teachers. You may access design briefs and other support materials by visiting www.childrengineering.com/everydaydesignbriefs.htm.

Lowe's Toolbox for Education

Lowe's Charitable and Educational Foundation (LCEF) is dedicated to helping parent-teacher groups achieve more for their schools. Lowe's will donate 1000 awards of \$2,000-\$5,000 each to K-12 public schools and public school parent-teacher groups. Contact: <http://toolboxforeducation.com/>. The application deadline is **October 12, 2007**.

Bubble Wrap® Competition for Young Inventors

Are you America's next great inventor? Sealed Air Corporation, the creator of Bubble Wrap® cushioning, is sponsoring the **Bubble Wrap® Competition for Young Inventors** to encourage students in Grades 5-8 to demonstrate their creativity and ingenuity by creating an invention that incorporates the use of Bubble Wrap® cushioning. Three finalists will win a three-day trip to New York City, where the Grand Prize Winner will be announced on Bubble Wrap® Appreciation Day, January 28, 2008. The Grand Prize Winner will receive a \$10,000 savings bond, while the second and third place winners will receive \$5,000 and \$3,000 savings bonds respectively. The teacher/mentor of each finalist will receive a \$500 gift card. Visit: <http://nmoe.org/bubblewrap/index.html>.

Toshiba America Foundation Grants Program for K-6 Science and Math Education

The mission of Toshiba America Foundation is to promote quality science and mathematics education in U.S. schools. Grants of up to \$1,000 per award are made for programs and activities that improve teaching and learning in science and mathematics. The foundation focuses its grant making on inquiry-based projects designed by individual K-6 teachers, and small teams of teachers, for use in their own classrooms. Visit: www.toshiba.com/tafpub/upload/page/100045/applic_K-6.pdf. The application deadline is **October 1, 2007**.

Best Buy Teach Awards

Applications are now available for the **2008 Best Buy Teach Awards**, which award innovative use of technology in K-12 classrooms. Winners will be announced in February 2008, and eight \$100,000 district-level awards will be announced in May 2008. All accredited, public and private nonprofit elementary, middle, and secondary schools located within 50 miles of a U.S. Best Buy store are eligible. Visit: <http://communications.bestbuy.com/communityrelations/teach.asp>. The application deadline is **September 30, 2007**.

Thank You!

to **Mike Fitzgerald**, Technology Education Specialist, Indiana Department of Education, for consistently sharing pertinent information through his **Tech Flash** newsletter. Each issue is jam-packed with resources like those above. For more information or to view past issues, visit www.doe.state.in.us/octe/technologed/techflash.html. You can also join Mike's Indiana ITTE listserv at www.doe.state.in.us/htmls/listservs.html to receive his weekly newsblast.



Myths About Girls and Science

The **National Science Foundation's (NSF) Research on Gender in Science and Engineering (GSE) program** seeks to broaden the participation of girls and women in science, technology, engineering, and mathematics (STEM) education fields by supporting research, the diffusion of research-based innovations, and

extension services in education that will lead to a larger and more diverse domestic science and engineering workforce. Though the program's name has changed over the years, it has been supporting these objectives since 1993, and its work has led to real changes in the opportunities available for girls and women to

participate in the study of science, technology, engineering, and math. For "helpful strategies for teachers and for families to attract girls to science and keep them engaged in it" read the full article at: www.nsf.gov/news/news_summ.jsp?cntn_id=109939&org=NSF&from=news.

Grant, Scholarship, and Award Opportunities for ITEA Members

Receive the financial support you need and the recognition you deserve! ITEA offers a wide variety of grant, scholarship, and award opportunities. If you are an ITEA member, then **YOU** are **ELIGIBLE!**

NOW is the time to apply!

Get a head start by visiting www.iteaconnect.org/Awards/awards.htm for information on grant, scholarship, and award criteria.

SAVE TIME...CONTINUE YOUR EDUCATION... ADVANCE YOUR CAREER!
APPLY TODAY. (Application deadline is **December 1.**)



Sally Ride Science TOYchallenge Engineering Design Competition

Sally Ride Science™ is giving students in grades five through eight the chance to step out of their classrooms and develop their engineering and design skills by creating their dream toy for the sixth annual **TOYchallenge™**. The mission of this fun-fueled toy- and game-design competition is to motivate kids to get involved in engineering design and

recognize that there's engineering in everything!

To get started, teams must: find an adult coach (18 years of age, or older) and sign up this fall; then choose from themed-toy categories like "Games for the Family" or "Get out and Play" and start brainstorming!

TOYchallenge information is available at www.TOYchallenge.com. Both boys and girls in grades five through eight may participate, but at least half of the members of each team must be girls. All submissions will be judged on originality, creativity, engineering elegance, feasibility, design-process description, team participation, and clarity of communication.

College of New Jersey Professional Development Workshops

The **College of New Jersey, Department of Technological Studies, School of Engineering** will present several **Professional Development Workshops** of interest this fall:

- **October 17, 2007** – Junior/Senior Student Design Challenge (Free Event!)
- **November 14, 2007** – Engineering is Elementary (EiE) (Grades 3–5, easily adapted for Middle School)
- **December 5, 2007** – Technological Challenges for Middle School: A World in Motion – Gliders (Grades 6–8)

Sessions are generally limited to 25 people, and all participants must preregister! Online registration is available at www.tcnj.edu/~techstudies. For further information or for late registration, call Judy Smedley at 609-771-2543 or Adam Brunner at 609-771-2784.

New Book Available

Marc de Vries, of Eindhoven University of Technology in the Netherlands has published a new book on good technology education practices. A preview of the book can be accessed at www.sensepublishers.com/index.htm?http%3A//www.sensepublishers.com/catalog/index.php%3Fmanufacturers_id%3D24. Check it out today!



"Life should NOT be a journey to the grave with the intention of arriving safely in an attractive and well-preserved body, but rather to skid in sideways—chardonnay in one hand, chocolate in the other—body thoroughly used up, totally worn out, and screaming "WOO HOO, What a Ride!" -unknown

NSF Summer Funding Opportunities for U.S. Graduate Students

There is a funding program available through the **National Science Foundation (NSF)** called the **East Asia and Pacific Summer Institutes (EAPSI)** that offers U.S. graduate students in science and engineering a unique opportunity to study abroad with foreign researchers (in Australia, China, Japan, Korea, New Zealand, Singapore, or Taiwan) for eight weeks during the summer. In 2008, the EAPSI awards will include a stipend of \$5,000, an allowance for international travel, and support to attend a pre-departure orientation in Washington DC. Foreign cosponsoring organizations will provide additional support to cover EAPSI students' living expenses abroad. More information is available at www.nsf.gov/eapsi.



National Science Foundation SUMMER 2008

EAST ASIA AND PACIFIC SUMMER INSTITUTES

For U.S. Graduate Students Pursuing Science and Engineering

Australia, China, Japan, Korea, New Zealand, Singapore, or Taiwan

- Biological Sciences
- Computer and Information Science & Engineering
- Education (Science, Mathematics, Engineering, & Technology)
- Engineering
- Geosciences
- Mathematical & Physical Sciences
- Social, Behavioral, & Economic Sciences
- Multidisciplinary Research

Application Deadline:
December 12, 2007
www.nsf.gov/eapsi
E-mail: eapinfo@nsf.gov

Passages

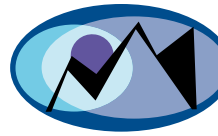
Dr. Jack C. Brueckman, Jr., 75, of N. Fort Myers, Florida died August 16, 2007. Dr. Brueckman was a retired Distinguished Technology Educator and Founding Director of the Small Business Development Center: SUNY College at Buffalo. Please visit the notice for Dr. Jack C. Brueckman Jr. at www.legacy.com/Link.asp?l=LS000092860291X.

Dr. Franklyn C. Ingram, 78, passed away in Columbus, Ohio on August 7, 2007. Dr. Ingram earned his under-

graduate degree from Oswego State University and taught in the public schools before he earned his masters and doctoral degree from The Pennsylvania State University, where his research efforts focused in the area of elementary technology education. He retired in 1989 from Central Michigan University, where he taught and was associate dean of the College of Arts and Sciences. Dr. Ingram was also a former member of ITEA's Board of Directors.

Dr. John Mitchell, professor emeritus of industrial arts, and namesake of the John Mitchell Center at the University of Southern Maine, passed away on August 6, 2007 at age 90. Dr. Mitchell was a true leader in the field and developer of "the Maine Plan" for industrial arts education. The following link is to the obituary in the *Portland Press Herald*: www.legacy.com/mainetoday%2Dpressherald/Obituaries.asp?Page=LifeStory&PersonID=92315803.

Conference Opportunities



International Technology Education Association
SALT LAKE CITY
 February 21-23, 2008

January 18, 2008
Preregistration
 deadline for money-saving registration discounts for ITEA's

Salt Lake City conference, February 21-23, 2008. **Register early and save!**
[Click here for printable registration form.](#)

September 27-29, 2007 The **Minnesota Technology Education Association (MTEA)** will hold its 2007 Fall Conference, *Tech Ed – Back to the Future II*, at the St. Cloud Holiday Inn. Visit www.mtea.net or contact **Dr. Mike Lindstrom**, Program Chair (763-506-1115/W; 763-506-1003/Fax) or **Dan Lundborg**, Registration Chair (763-506-5467/W; 763-323-7926/H) for general information.

October 2-5, 2007 **TENZ (Technology Education New Zealand)**, along with Auckland University, will hold its **2007 conference** at the Waipuna Hotel, Mt. Wellington, Auckland, New Zealand. Visit www.tenz2007.auckland.ac.nz for details.

October 11-13, 2007 The state of New Hampshire will host the **New England Association of Technology Teachers (NE-ATT) conference, A NEATT Foundation to Build Upon**, in Worcester, MA. For immediate updates, check the NEATT website at www.neatt.org/.

October 17-20 **CONNECTING'07**, the **Icside/IDSA World Design Congress**, in San Francisco, CA is expected to attract as many as 3000 attendees from all over the world. Save as much as \$150; register today at www.regonline.com/Checkin.asp?EventId=136374 and reserve your place at the international table. The special "summer" registration discount ends September 30. For a glimpse at the sensational program, visit www.idsa.org/PDFs/connecting07_schedule.pdf.

October 18-20, 2007 The **Florida Technology Education Association** will hold its **78th Annual Professional Development conference, "Inspiring today, applying tomorrow,"** at the Holiday Inn Hotel & Suites Harbourside in Indian Rocks Beach. Information is available at www.ftea.com/2007conference.asp.

October 19, 2007 The **Technology Education Association of Maryland** will present its **Seventh Annual Technology Education TECH EXPO 2007, TEAM's All-Star Line-Up: CATTs, PLTW, STEM and**

VSC, at the Baltimore Museum of Industry, Baltimore, MD. This is TEAM's Annual Conference for all technology education teachers and supervisors in the State of Maryland. Additional information can be found at www.techedmd.org/conference.htm; or contact **Will Johnson**, EXPO 2007 Coordinator, at wjwin@aol.com.

October 19-20, 2007 The **14th Annual Illinois Technology Education Conference (ITEC)** will be held at the Peoria Holiday Inn Centre in Peoria, IL. ITEC has secured an award-winning teacher, **Joseph Fatheree**, Illinois Teacher of the Year 2006-07 and known for his work in the field of technology integration and curriculum development, as keynote speaker. For more information visit www.teai.net.

October 22, 2007 The **LITE (Learning Institute for Technology Education) Fall Fest, Math, Science and Technology Through Design**, will take place at the Eastern Michigan University Student Center in Ypsilanti, MI. Early-bird registration discounts are available until **October 5, 2007**. Visit www.litesource.org/Conference10.22.07.htm for complete information and registration.

October 24, 2007 The **Department of Technological Studies at The College of New Jersey, School of Engineering** will present its **21st Annual Professional Conference**. Sessions are generally limited to 25 people, and all participants must pre-register! Online registration is available at www.tcnj.edu/~techstudies. For further information or for late registration, call **Judy Smedley** at 609-771-2543 or **Adam Brunner** at 609-771-2784.

October 25-26, 2007 The **Department of Technology, State University of New York at Oswego**, will present its **68th fall conference** for technology teachers and other professionals, *Technology Education: Inspiring Outstanding Performance*,

on the Oswego campus in Wilber, Park, and Sheldon halls. New this year are sessions on technology education for science and mathematics elementary classes to encourage integrative learning. For more information, visit www.fallconference.com or contact **Judith Belt**, Conference Chair, at jbelt@oswego.edu.

October 25-27, 2007 The **Society of Women Engineers** will present its **2007 National Conference, Women IN TUNE with TECHNOLOGY**, at the Nashville Convention Center in Nashville, TN. For complete conference information, visit www.swe.org/2007.

October 27, 2007 The **Ohio Technology Education Association (OTEA) Fall Conference** will focus on the role of technology education as a STEM partner. Visit www.otea.info/CONFERENCES.HTML or contact **Timothy Tryon** at Timothy878@zoominternet.net for details.

November 1-2, 2007 The **22nd Annual Colorado Technology Education Conference, Reaching New Heights**, will take place at the Copper Conference Center in Copper Mountain, CO. Complete information about the conference is available at www.cteaonline.org/.

November 4-5, 2007 The **Technology Educators of Indiana (TEI)** will present their **76th Annual Conference, Passion for the Profession**, at the Clarion Hotel and Conference Center, in Indianapolis. Visit www.teiwww.org/conference/ for complete conference information.

November 8-9, 2007 The **Technology Education Association of Pennsylvania (TEAP)** will hold its **55th Annual Conference** at the Radisson Penn Harris Conference Center in Camp Hill, PA. Visit the TEAP website at www.teap-online.org/index2.htm and click on "conference" for complete information.