



The Technology Education for Children Council (TECC) invites you to participate in a special workshop being held in conjunction with the 2008 International Technology Education Association conference in Salt Lake City, Utah.

The Technology, Innovation, Design, & Engineering (TIDE) Workshop for Elementary School Teachers

This unique, full day workshop caters to classroom teachers (and elementary curriculum planners) who want to expand their knowledge and experience with K-5 technology, innovation, design, and children's engineering. Engage in lots of hands-on activities with experienced workshop leaders and walk away with many great classroom ideas for highly motivating, interdisciplinary activities. *Pre-registration required through TECC; walk-ins accepted if space available.*


- WHEN?** **Thursday, February 21, 2008 from 8:00 a.m. – 3:00 p.m.**
Participants have the option to visit vendor exhibits after the workshop from 3:00-5:00 p.m.
- WHERE IS IT?** **Salt Lake City Convention Center (Rms. 252-253 A/B), Salt Lake City, Utah**
This workshop is held in conjunction with the International Technology Education Association (ITEA) Conference. However, you do NOT need to participate in that conference in order to enroll in this workshop. ITEA conference participants are also welcome at this workshop, but they must pay this additional workshop fee to cover food and workshop expenses.
- WHO SHOULD ATTEND?** **K-5 elementary teachers (any subject areas) or others interested in planning and designing elementary-level technology education experiences, including curriculum planners, administrators, and teacher educators**
No prior experience with technology, innovation, design, or children's engineering is necessary.
- WHAT IS IT?** **Hands-On Workshop to help educators build skills and discover techniques that they can use in the classroom to promote children's skills in all content areas**
The workshop consists of three separate hands-on sessions, each taught by experienced presenters. There will be a one hour lunch break (boxed lunches included with workshop fee.)
- WHY SHOULD I COME?** **Discover, Learn, and Do!**
Discover exciting ways to integrate technology, innovation, design, and engineering activities into the K-5 curriculum to enhance children's basic skills using highly motivating hands-on strategies. Learn new skills and do some creative projects. Gather a lot of great, free resources!
- HOW DO I ENROLL?** **Complete and submit your registration form with the \$38 registration fee.**
Your registration includes all materials and supplies -- plus a delicious boxed lunch! Please register by February 5, 2008 using the registration form included here. Workshop seating is limited to the first 48 enrollees.

The workshop *includes* THREE separate hands-on sessions! Participants will be divided into sessions based on their main interest grade levels. See the tentative schedule below and full descriptions on the next page.

8:00-8:30am	Registration and Refreshments
8:30am	Welcome and Orientation to "TIDE"
8:45-10:15am	Break-out Session ❶ (<i>topics vary by grade level</i>)
10:15-10:30am	Break
10:30am-12:00 pm	Break-out Session ❷ (<i>topics vary by grade level</i>)
12:00-1:00pm	Informal Lunch Break (boxed lunch provided)
1:00-2:30pm	Break-out Session ❸ (<i>topics vary by grade level</i>)
2:30-2:40pm	Move to closing session
2:40-3:00pm	Closing Session and Evaluations
3:00-5:00pm	Visit industry vendors on own (optional)

The Technology, Innovation, Design, & Engineering (TIDE) Workshop for Elementary School Teachers is limited to 48 participants. Pre-registration is required (by February 5, 2008). See enrollment form attached or contact Sharon Brusic (TECC Workshop Planner) at Millersville University of Pennsylvania at 717-871-5548 or Sharon.Brusic@millersville.edu for more information.

The Technology, Innovation, Design, & Engineering (TIDE) Workshop for Elementary School Teachers

		 TWO DIFFERENT TRACKS	
		GRADES K-3 FOCUS	GRADES 3-5 FOCUS
Break-Out Sessions	1	<p>To Infinity and Beyond: An Exploration of Aerospace Science and Technology NASA scientists and engineers commonly use science concepts and math principles to solve engineering challenges. Explore similar hands-on challenges in the classroom environment. Participants will take home materials and ideas to bring space exploration to life, as well as information on professional development opportunities with NASA.</p> <p>Presenters Krista Jones <i>Bellevue Elementary School, Bellevue, ID</i></p> <p>Doug Walrath <i>National Center for Engineering and Technology Education (NCETE), Utah State University</i></p>	<p>Robotics 101: Using LEGO™ Mindstorms in the Classroom Using the LEGO™ system, build and program a simple robot that uses sensors to detect objects and navigate. See how easy it is to integrate robotics into your elementary curriculum to promote many interdisciplinary skills. One lucky participant will take home a LEGO kit valued at \$250!!</p> <p>Presenter: Terri Varnado <i>North Carolina State University</i></p>
	2	<p>Waste Not, Want Not: Animals, Technology, and Environment Children apply skills in technological design and knowledge about biology and nature to develop sustainable, environmentally friendly solutions to real-world problems. Connections are made to research, writing, children's literature, and other curricular areas.</p> <p>Presenters Marlene Grower, <i>Myrtle H. Stevens Elementary School, Rocky Hill, CT</i></p> <p>Michele Dischino and Patrick Foster <i>Central Connecticut State University, New Britain</i></p>	<p>To Infinity and Beyond: An Exploration of Aerospace Science and Technology NASA scientists and engineers commonly use science concepts and math principles to solve engineering challenges. Explore similar hands-on challenges in the classroom environment. Participants will take home materials and ideas to bring space exploration to life, as well as information on professional development opportunities with NASA.</p> <p>Presenters Krista Jones <i>Bellevue Elementary School, Bellevue, ID</i></p> <p>Doug Walrath <i>National Center for Engineering and Technology Education (NCETE), Utah State University</i></p>
	3	<p>Blast Off -- A Paper Rocket Curriculum to Launch You Into Your Core Subjects From shapes and coloring to acute angles, graphing, and prediction...Come see how paper rocketry is an exciting and motivating activity that reinforces and integrates your state core curriculum. You will build and launch your rocket in the workshop. Basic curriculum used in 2nd – 5th grade will be provided. All participants will receive a FREE launcher (valued at well over \$100)! (See http://sjh-www.sanjuanschools.org/rockets for images.)</p> <p>Presenter: Jared Berrett <i>Technology Education for Children Council (TECC) President and High School Pre-engineering & Multimedia Teacher</i></p>	<p>How to Float Your Boat Discover how to implement a boat activity into Grades 3-5 with a STEM (<u>S</u>cience, <u>T</u>echnology, <u>E</u>ngineering, and <u>M</u>ath) focus. Learning scientific principles such as buoyancy, displacement, draft, and density has never been more fun. Using the engineering design process and basic mathematical prediction, you will design your own boat and build a scale model for testing.</p> <p>Presenters Todd Kelley and Cameron Denson <i>National Center for Engineering and Technology Education (NCETE), University of Georgia</i></p>



**THE TECHNOLOGY, INNOVATION, DESIGN, &
ENGINEERING (TIDE) WORKSHOP
 FOR ELEMENTARY SCHOOL TEACHERS**

To Be Held On Thursday, February 21, 2008
 At the Salt Lake City Convention Center, Salt Lake City, UT

Mail This Completed Registration Form
 with the \$38 (U.S. Dollars) Registration Fee
 (check or money order payable to TECC) to:
 Sharon A. Brusic
 TECC Workshop Planner
 P.O. Box 1002
 Millersville University ITEC Department
 Millersville, PA 17551-0302
Sharon.Brusic@millersville.edu
 Phone: 717-871-5548

2008 WORKSHOP REGISTRATION FORM
 Please complete the form below. Print neatly.

_____ Mr. Ms. Dr.
 First Name Last Name Title (circle one)

_____ Job Title
 School/Work Name

_____ Mailing Address (Where you want registration confirmation sent)

_____ Zip Code
 City State/Province

_____ Evening phone
 Daytime phone (include area code) (include area code)

_____ E-mail Address [Please print. Clearly differentiate between letters & numbers (e.g., "O" and zero, "L" and one)].

How would you rate your knowledge/skill with elementary technology, innovation, design, and engineering? (*circle one*)

	NOVICE No Knowledge and/or Experience	BEGINNER A Little Knowledge and/or Experience	SEMI-SKILLED Some Experience & Knowledge	SKILLED Very Experienced & Knowledgeable
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In which workshop track do you prefer to enroll? (*circle one*)

K-3	3-5	<i>(Note: If the track you choose is full, we will place you in the alternate track and notify you by email for your approval.)</i>
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If you are currently employed in education, what grade levels and subjects/courses do you teach or supervise?

	Grade Levels	Subject (s) or Course(s) Taught or Supervised
A boxed lunch is included with your registration fee. Check <input checked="" type="checkbox"/> the lunch and drink that you prefer.	<input type="checkbox"/> LUNCH A Classic ham sandwich served on kaiser roll with lettuce, tomato, cheddar cheese, & mayo and mustard. Includes potato salad and gourmet cookie.	<input type="checkbox"/> LUNCH B Grilled chicken with apple slices, gruyere cheese, arugula, and citrus aioli served on a pretzel roll. Includes potato salad and gourmet cookie.
		<input type="checkbox"/> LUNCH C Balsamic roasted vegetables on wheat baguette with alfalfa sprouts, feta cheese, and cilantro lime vinaigrette. Includes potato salad and gourmet cookie.
		Specify your drink choice. <input type="checkbox"/> Bottled water <input type="checkbox"/> Diet soda <input type="checkbox"/> Regular soda

Registration Fee for the Workshop is **\$38.00 per person** (U.S. dollars) and this includes all workshop materials and boxed lunch. This fee does not include parking fees or other incidentals. **Please include check or money order payable to TECC.** (*Do not send cash. We regret that we cannot accept credit cards or purchase orders.*) Registration must be postmarked by February 5, 2008. Registrations are accepted on a first come basis. If the workshop fills or cancels for any reason, your registration will be returned with the payment. Please note that the workshop fee is non-refundable after February 5, 2008.