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## Technology Education – Bill Bertrand

# Governor's Institute for Technology Education 2006 California University of Pennsylvania July 23-28

*Plan to attend* the Governor's Institute for Technology Education (GITE) in 2006. General information about the Governor's Institutes is available on the web: [Governor's Institutes](#). GITE is a great opportunity for Technology Education and educators in other content areas to acquire knowledge of new and emerging areas of technological content, and the essential curriculum that supports it. GITE 2006 will be held at California University of Pennsylvania (approximately one hour south of Pittsburgh, home of the Super Bowl Champion Steelers!), July 23 – 28.

*The Objectives* (anticipated) of the Institute, which will be met through hands-on activities and group assignments, will ensure that participants are able to:

- Explain key concepts of new and emerging Technology Education content areas
- Create working solutions for at least five technology learning activities
- Develop learning opportunities for how to effectively integrate engineering design and technology into the elementary school curriculum
- Participate in critique sessions to evaluate solutions
- Work cooperatively to solve technological problems
- Develop strategies to help students increase basic skills in the technological and engineering design processes
- Describe strategies to demonstrate how Technology Education courses help students to improve basic problem-solving skills

*To Register* for GITE 2006, visit [www.papde.ws/](http://www.papde.ws/). Registration is limited to 100 applicants who qualify for a scholarship. Costs covered by the scholarship in the weeklong, residential GITE include: the program of study and related support materials, two graduate credits, lodging, meals and follow-up activities during the 2006-2007 school year.

*To learn more* about what participants did last year, including the organization of a typical Institute, visit the [GITE 2005](#) website. There you can review general session information, a daily schedule, and the challenge and solutions that teachers developed.

With the recent release of the *Science Assessment Anchors*, which include Technology

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Keep these professional conferences  
dates in mind for Fall/Winter of 2005:

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Education content, educators that attend GITE 2006 will receive information on the Anchors and the upcoming Science PSSA test. For more information, visit the [Science Assessment Anchors](#) portion of the PDE website. The Standards that are covered in the Science Assessment Anchors come from the two standard areas of *Science and Technology* and *Environment and Ecology*.

*If you have questions* about the GITE 2006 program, contact PDE Technology Education Advisor Bill Bertrand, at [wbertrand@state.pa.us](mailto:wbertrand@state.pa.us) or 717-783-6848. For questions about the California University of Pennsylvania site, contact Site Co-Director Stan Komacek, at [komacek@cup.edu](mailto:komacek@cup.edu) or 724-938-4085.

## AMERICA'S FUTURE SCIENTISTS AND ENGINEERS SHOW WHAT THEY KNOW

(Source: Triangle Coalition for Science and Technology Electronic Bulletin, January 26, 2006. Contact [tricoal@triangle-coalition.org](mailto:tricoal@triangle-coalition.org) for TCEB subscription or membership information.)

America's next generation of scientists and engineers have begun to put their knowledge to the test, in the country's largest science tournament. The Department of Energy's National Science Bowl involves 12,000 high school students from 1,800 schools across the United States, and tests students' knowledge in all areas of science. "Developing the next generation of scientists and engineers is a critical part of ensuring America's scientific, economic, and energy future," said Energy Secretary Samuel W. Bodman. "The National Science Bowl is an important part of DOE's effort to encourage America's best and brightest to explore the fields of science and engineering and ultimately be a part of solving the great questions facing our nation and our world, as scientists and engineers have done throughout our history."

To reach the national competition, teams must win one of 65 regional tournaments. The first regional tournament began January 20; the last regional tournament will be held March 21. The regional champion teams will receive trips to Washington, D.C. April 27 - May 1 to tour museums and participate in Science Day seminars and the national academic science competition. Since DOE's National Science Bowl began in 1991, more than 100,000 high school science and mathematics students -- and their teachers -- have participated. Competing teams are quizzed on biology, chemistry, physics, astronomy, earth science, general science, and mathematics. Many participating students have gone on to careers in scientific fields. This year's top three teams will win prizes including scientific research trips to France and U.S. DOE laboratory sites. More information is available at <http://nationalsciencebowl.energy.gov>.

## National Center for Technological Literacy (NCTL)

BOSTON, MA -- The Museum of Science, Boston launched the National Center for Technological Literacy (NCTL) in 2004 to enhance knowledge of technology nationwide and inspire the next generation of engineers, inventors, and innovators. Through the NCTL, a hub of innovative educational initiatives, the Museum works closely with educators, administrators, government and industry leaders to integrate engineering as a new discipline in schools and present technology as an equal partner to science.

In addition to new exhibits and programs to foster lifelong informal learning about technology

the Advisors name on the front page.

We're on the Web!

[http://www.pde.state.pa.us/c\\_and\\_i/](http://www.pde.state.pa.us/c_and_i/)

and engineering in museums and science centers, NCTL programs and materials will enhance curricula in schools, advise states on modifying their academic standards, and provide training and support for educators. Through its link with the Museum, the NCTL spans a myriad of programs and services. The Museum's Science Park facility will serve as their flagship venue. The Web address is [www.nctl.org](http://www.nctl.org).

## American Society for Engineering Education (ASEE)

Sustaining America's strong competitive advantage in the world economy may prove difficult without a highly trained workforce and technology-savvy citizenry. To ensure the continued strength of these national assets, the ASEE EngineeringK12 Center works to enhance achievement in pre-college science, technology, engineering, and mathematics (STEM) education by promoting the effective application of engineering principles to K-12 curricula.

The ASEE EngineeringK12 Center seeks to identify and gather in one place the most effective engineering education resources available to the K-12 community. From comprehensive data on outreach programs to profiles of "cool" engineers to hundreds of links and readings related to engineering education, ASEE EngineeringK12 Center offers immediately useful, easily accessible materials specifically tailored to students' and educators' interests. The ASEE EngineeringK12 Center hopes to serve as a resource hub for stakeholders in engineering education. Visit the site at: [www.engineeringk12.org](http://www.engineeringk12.org)

## Woodworking Teachers Network

Woodcraft Supply Corp. is proud to be working with the New England Association of Woodworking Teachers (NEAWT) which has developed a website to assist woodworking teachers around the country.

The intent of the site is to lead an initiative targeted to reverse current trends that indicate a nationwide decline of participation and support of classes and curriculums associated with woodworking programs. They have identified a need for advancing woodworking curriculum, as well as a requirement to continue to enhance the foundation of classroom excellence in these fields of study.

The goal is to increase awareness by concentrating on promoting woodworking technology through enhanced instructional communication agendas, curriculum development and strategic partnerships such as with NEAWT.

Once you [Join the Network](#), you are invited to:

- Connect with your colleagues
- Contact woodworking experts
- Share your ideas
- Meet endowment partners

