

57TH ANNUAL TEAP CONFERENCE

PRELIMINARY CONFERENCE SCHEDULE

Friday, November 6th, 2009

7:00 AM

TEAP-CL Breakfast

Veranda

Joanne Trombley, *President, TEAP-CL*

Join the TEAP Council for Leadership for breakfast and the TEAP CL's Annual Business Meeting on the Veranda at the Hotel Restaurant. If you choose to eat breakfast that the meeting it must be paid for by the attendee on site. Please consider attending and becoming involved in the TEAP Council for Leadership!

Exhibitors Meeting

Exhibit Area

William Michael, *TEAP Conference Director*

All commercial exhibitors are asked to attend this meeting held by the TEAP Conf. Director.

8:00 AM

TSA - Board Meeting

Keystone B

Dennis Gold, *TSA Facilitator, PA Department of Education*

A regular meeting of the TSA Board of Directors. Visitors are welcome.

TEAP Spouse's Activities

Pres. Suite

Spouse's Program Chair, TEAP

On Friday, various events will take place including a walk through the farmers market, lunch, and if desired, a trip to the outlets. Please bring a bottle of your favorite wine for us to sample during wine tasting during the TEAP Conference. Please check the TEAP website for more and updated information. Please RSVP Melissa Hutzel at mbhutzel@verizon.net.

9:00 AM

Production Planning and The Manufacturing Connection

Keystone A

Mr. Harry L. Hess, *Teacher, The College of New Jersey*

Production planning is often considered to be a critical component in the planning stage for the manufacturing of a product. This presentation will illustrate some of the most important production planning concepts that should be considered.

Last Updated on: 10/17/2009

Public Relations for your Program... Your Saving Grace

Keystone C

Mr. Jeffery L. Yeagle, *Teacher, Colonial School District*

With the demands placed on schools, Technology Education teachers must now self advocate more than ever. The presenter will provide examples of a variety of PR efforts undertaken by teachers at one suburban Philadelphia High School. (and discuss the results of these efforts.)

The BattleBots are Back!

Keystone D

Kirk Marshall, *Teacher, Bloomsburg Area High School*

The BattleBots IQ program has sparked the interest of many high school students as they design, engineer, and manufacture their own competitive robots. Students learn to apply mathematics, physics, and science to real world applications.

Strategies to Increase Enrollment & Funding for your Program

Keystone E

Mr. John Martincic, *President, Forest Scientific Corp.*

Learn how to increase enrollment due to excitement from CNC projects. Learn how to publicize your program to make it easy for your administrating to justify funding.

Integrating Pro-Engineer Wildfire and Pro-Mechanica 3-D Parametric Technology to High School STEM Curriculum

Commonwealth

Mr. Trung Tchiong, *Tech. Ed. Teacher, Downingtown High School*

CAD students design a Pro-Engineer 3-D solid coffee cup, identify simulated maximum stress concentration area (Pro-Mechanica), apply compression stress to actual prototype, redesign and optimize the cup. A hands-on experiment that shows components of STEM

Turning the Tide: Moving to the New PA-Standards for Technology Education

Senate Board

Judy Hawthorn, *Technology Education Dept. Chair, Cedar Cliff High School*

The presentation will focus on the transition from the current PA-Standards to the proposed PA-Standards. The Standards are currently at the PA State Board of Education for approval. The approval timeline is January with implementation to occurring in the spring of 2010.

Mechatronics Initiative through STEM

Susquehanna

Daniel Blanck, *Regional Sales Manager, Festo Corp.*

Michael F. Amrhein, *Asst. Director, Robotics Engineering Tech. Ed., Cal. Univ. of PA*

This session will introduce participants to Mechatronics and the strong link to STEM. The utilization of Mechatronics Engineering Training Systems and Process Control Systems will be discussed as well as how principles learned through the studies in Mechatronics are relevant in competitive programs such as BattleBots IQ, First Robotics and F1 in Schools.

10:30 AM

General Session II:

STEM Education: Where Do We Go from Here

Mark Sanders, Chair of Technology Education and Integrative STEM, Virginia Tech.

Keystone C-D-E

Mark Sanders began working in integrative STEM education in 1991, as Co-PI of the Technology, Science Mathematics Integration Project (NSF, 1991-1996). He co-authored the TSM Connection Activities (1996, McGraw-Hill), recently expanded/published as Engineering & Design Applications (2008, McGraw-Hill). Mark began his career as a high school Technology teacher in Albany, NY, and joined the Virginia Tech faculty in 1990, where he chairs both the Technology Education and Integrative STEM Education programs. An innovator in communication technology curriculum, he introduced his students to electronic publishing (1981), interactive video (1985), digital video and holography (1992), and Web-based portfolios (1995). He has authored a popular textbook, Communication Technology (McGraw-Hill, 1991, 1996), a dozen CTTE Yearbook chapters, and founded the Journal of Technology Education (JTE, 1989-1997). As an electronic publishing pioneer, he established the electronic JTE (1992), one of the first 5 academic journals in history to go electronic and GRAPHIC COMM CENTRAL, one of the very earliest Web portals in education (1997-2009). Mark has served on the Boards of the American Society for Engineering Education (K-12 Division), the International Graphic Arts Education Association (VP & President), and the Council on Technology Teacher Education (Treasurer & Vice President). The Integrative STEM Education Graduate Program he envisioned in 2004 and co-founded in 2005 offers Web-based degrees (Certificate, MAED, EdS, EdD and PhD) that enthruse K-16 STEM educators, leaders, and scholars with regard to new/integrative approaches to STEM Education.

12:00 PM

TECAP Business Mtg.

Keystone A

Annual business meeting of the Technology Education Collegiate Association of Pennsylvania.

TEAP Business Meeting and Delegate Seating

Keystone E

Seating of delegates for the annual business meeting. All delegates need to be seated prior to the 12:30 PM business meeting. Lunch will be served. All newly elected officers will also be sworn in during this meeting. If you are interested in serving as a delegate for your region, please contact your Regional Vice President for information.

1:00 PM

Effectively Integrating Special

Needs Students in the Technology Education Classroom

Keystone B

Dr. Laura J. Hummell, *Assistant Professor, California University of Pennsylvania*

Integrating special needs students in Tech. Ed. can be a challenge. Participants will learn how to establish connections to a wider variety of students using assistive technologies, classroom management plans, learning styles inventories, and more.

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Free Open Source Software (FOSS) Applications for Technology Education

Keystone C

Trevor Gontz, *Teacher, Elizabethtown Area Middle School*

This presentation is designed to demonstrate some of the free, open source alternatives to proprietary software commonly used in Technology Education. In addition to the cost savings FOSS can be used by students at home.

Class, Clubs and Camps: Turn your Students on to Robotics

Room D

Mr. William Bechtel, *Technology Education Teacher, Yellow Breeches Middle School*

Mr. Joseph Osborne, *BotBrain Educational Robotics*

A good robotics program can teach many Science, Technology, Engineering, and Math topics. Come learn about BotBrain Educational Robotics and how to incorporate robotics into your classroom, organize a school club, or how to run a summer camp.

Project Lead the Way

Commonwealth

Tom Weiss, *Affiliate Director, Project Lead the Way*

An introduction to Project Lead the Way, a national pre-engineering program for either middle schools or high schools.

Middle School Program of Excellence Presentation *Boyertown Junior High East*

Senate Board

Mr. Todd D Kennedy, *Technology Education Teacher, Boyertown Junior High School*

Mr. Kevin G Reigner, *Technology Education Teacher, Boyertown Junior High School*

Mr. Andrew R Schopf, *Technology Education Teacher, Boyertown Junior High School*

The Junior High Technology Education program at Boyertown Area School operates on the mission to provide an integrative, rigorous, and relevant hands-on experience through which students will develop, produce, use and assess technology while considering its impacts on the individual, society, and environment by incorporating modern and traditional instructional technologies that will develop technological literacy within our students.

High School Program of Excellence Presentation *Lower Merion High School*

Susquehanna

Mr. Mark Piotrowski, *Technology Education Teacher, Lower Merion High School*

Mr. Rich Kressly, *Technology Education Teacher, Lower Merion High School*

Mr. Andy Pron, *Technology Education Teacher, Lower Merion High School*

Lower Merion High School endeavors to be at the forefront of current trends in technology and engineering education. Through the use of constant curriculum revision, professional development opportunities, co-curricular activities, and STEM community involvement, LMHS strives to provide a variety of educational experiences for students to develop their technology literacy and passion to make the world a better place.

2:30 PM

Authentic Instruction: How Classrooms for the Future Teachers are Collaborating with Vocational Teachers

Keystone A

Marge Runkle, *York County School of Technology, CFF Coach*

"When will I use this in the real world?" is not a question at this school as Math, Science, Social Studies, and English teachers collaborate with Vocational teachers to make real world connections through CFF.

PA TSA Update and New Adviser Information

Keystone B

Dennis Gold, *PA TSA Facilitator, PA Department of Education*

This session is for current and new TSA advisors. Come check us out for the latest events and information in TSA.

Recession Special - Water Bottle Activities in the Design World

Keystone C

Jon Taylor, *Tech. Ed. Teacher, Central Bucks High School West*

Has your district been hit hard due to the economy? Check out one activity to use when the budget is tight. Other ideas will be welcomed and shared accordingly.

What is Happening in Technology Education?

Keystone D

William Bertrand, *Technology Education Advisor, PA Department of Education*

Come here from your Pennsylvania Department of Education Technology Education Advisor about developments within STEM and engineering that should have an impact on Technology Education in Pennsylvania. Learn about the new revisions to the Pennsylvania Academic Standards for Science and Technology and a new tool to help schools, the Standards Aligned System, along with Engineering byDesign™ curricular materials free to schools.

Botball®: STEM Based Educational Robotics

Keystone E

Ms. Elizabeth Whitewolf, *Botball Production Manager, KISS Institute for Practical Robotics*

Get ready for a high-tech, high-energy approach to education. The Botball Educational Robotics Program integrates science, technology, engineering, and math with robotics to keep your students on the cutting edge of technology.

Using Assessment Portfolios to Develop a Culture of Sharing and Instructional Improvement

Commonwealth

Mr. Jeffrey Finch, *Principal, Hampton Township School District - High School*

Technology Education lends itself to assessment that is both rigorous and relevant. Assessment Portfolios can be used to catalogue assessment data to be shared in cross curricular learning communities. This practice has not only proven to bring beneficial new ideas to Technology teachers, it has also provided a forum for these teachers to take a leadership role in the sharing of best practices.

Last Updated on: 10/17/2009

5:30 AM

Presidents Reception

Veranda

6:30 AM

TEAP Banquet

Ballroom

The Annual TEAP Awards Banquet is open to all members of the association with the purchase of a Banquet ticket during Pre-Registration or on-site at the Registration Desk. You are also welcome to bring along your spouse or children. It is here that the association presents a number of TEAP and ITEA Affiliate awards. The swearing in of the new President also takes place followed by a view into the coming year's theme. This is a great opportunity to not only see many of your fellow technology educators in the state be recognized for their outstanding work, but also a chance to meet and talk with others. We look forward to seeing you.