

**Schedule for
FOUR STATE REGIONAL TECHNOLOGY CONFERENCE**

**November 16-17, 2006
Kansas Technology Center
Pittsburg State University
Pittsburg, Kansas**

Program Structure/Sequences

A. Luncheon Speaker:

Dr. Bruce Dallman, Dean, College of Technology, PSU

Dr. Bruce Dallman is the new Dean of Technology at PSU and will be experiencing his first Four State Regional Technology Conference. He will share a few brief remarks.

B. Technology Education (K-12)

1. The Fixture Factory

Presenters: Michael Neden and Rocky Restivo, Pittsburg State University

Chair: Michael Neden, PSU

Time: TH, 9:30-11:20 AM. **Limited to 24 participants.**

Location: Hall by W102 KTC

A new feature at the Four State Conference that is sure to be a hit with Technology Education Teachers. This Focus Session is especially designed to provide the Technology Education Teacher with a collection of "jigs and fixtures" for a series of unique projects that can be completed in most Technology Education laboratories. Participants will assemble a set of "jigs and fixtures" during the Focus Session that they will be able to take with them at the end of the session, free of charge. These "jigs and fixtures" have been designed by the Manufacturing Processes classes at Pittsburg State University and will be used later in the semester to manufacture over 100 units by 24 Technology Education students from Pittsburg Middle School in about 2 hours. Come be a part of this exciting new experience and get your "factory" started in your school just in time for Christmas. Email Mike Neden @ mnedden@pittstate.edu to reserve participation slot in "The Fixture Factory".

2. Project ProBase--Problem-Based Technology Education,

Presenter: Dr. Michael Daughtery, University of Arkansas

Chair: John White, St. Mary's-Colgan High School, Pittsburg, KS

Time: TH, 11:30 AM -12:20 PM

Location: W102 KTC

Project ProBase is funded by the National Science Foundation (NSF) to develop high school level technology education curricula. The ProBase curricula will help prepare high school students who plan to go on to community college technician education programs or university-level engineering programs. A set of eight learning units for the 11th and 12th grade levels have been developed. These learning units use hands-on problem-solving activities to teach fundamentals of technology in the fields of agriculture, information and communications, entertainment and recreation, energy and power, transportation, medicine, construction and manufacturing.

3. TriCaster Video Production System

Presenter: Bill Briggs, Prairie Hills Middle School, Buehler

Chair: Jason Ward, PSU

Time: TH, 1:30-2:20 PM

Location: S111 KTC

Learn about the low cost, feature-rich, award-winning Tri-Caster system and how it can be used for video production activities in middle school, high school, and college programs.

4. Lines and Views

Presenter: Nelson Parks, The Parke System, Springfield, MO
Chair: William Bradrick, PSU
Time: TH, 2:30-3:20 PM
Location: S109 KTC

This session shares a proven, highly successful method of teaching drafting and design to students.

5. Teaching Special Needs Students in the Technology Classroom

Presenter: Dr. Robert Howell, Ft. Hays State University
Chair: Susan Bastion, PSU
Time: TH, 2:30-3:20 PM
Location: S111 KTC

This presentation will provide teaching tips that you can use while working with a variety of special needs students.

6. The Wonders of Technology Connections Project

Presenters: Mrs. Chery Costley, Principal, Carl Junction Primary School
Mr. Larry Dunekack, Technology Ed Teacher, Pittsburg Middle School
Mr. Lynn Hoover, Technology Ed Teacher, Frontenac High School
Mr. Michael W. Neden, DTE, Pittsburg State University
Chair: Michael Neden, PSU
Time: TH, 2:30-3:20 PM
Location: W109 KTC

What do elementary teachers from Carl Junction Primary School, middle school students from Pittsburg Middle School, high school students from Frontenac High School and Technology Education majors from Pittsburg State University have in common? Connections! This Focus Session will showcase the unique learning opportunities that have been developed between these local area schools and the Pittsburg State University Technology Education program over the past three years. Exciting "thematic" projects have been designed to cover a wide array of topics including:

- The Wonders of Flight - celebration of 100th Anniversary of the Wright Brothers first flight
- The Wonders of the Deep Blue Sea - submarines, pirate ships and sea creatures
- The Lewis and Clark Expedition - follow the journey of the great explorers
- The Great "Gorilla" Race - planes, trains, and automobiles on stage
- The Wonders of Science - hands on children's science museum and presentations
- The Wonders of Invention - famous inventors come alive in this exciting thematic unit

Participants will learn how to incorporate these "high interest" activities into the Technology Education classroom

7. Teaching Science, Technology, Engineering & Math (STEM) w/SolidWorks

Presenter: Chris Reuter, Innovative Education Systems
Chair: Jim Otter, PSU
Time: TH, 3:30-5:00 PM
Location: S106 KTC

This session explores the capabilities of SolidWorks Education Edition, with a focus on the consumer product, furniture, and machine design industries. Participants will be exposed to the latest tools available to create and simulate 3-d models, 2D Cad drawings, and methods of taking 3D CAD data directly to manufacturing.

8. New Kansas Technology Education Program Standards?

Presenter: Dr. Craig Haugsness, Technology Ed Consultant, KSDE
Chair: Dr. Jim Sours, PSU
Time: TH, 3:30-5:00 PM
Location: S111 KTC

This session will review the requirements for a new Technology Education program. All old programs will have to convert to the new programs by the 2007-08 school year.

9. KTEA Meeting & Dinner, TH 5:00-6:30 PM, Location: E101 & E102 KTC

10. Tours/Open Houses of Industry & Training Facilities-TH 6:30-8:30 pm:

- Depco
- FSCC John Deere Ag Tech Building
- FSCC Harley Davidson Motorcycle Service Training Facility

11. Safety in the Technology Lab

Presenter: Dr. Fred Ruda, Ft. Hays State University
Chair: Doug Younger, PSU
Time: FR, 8:00-8:50 AM
Location: S119 KTC

Critical information regarding implementation of approved safety practices and issues applicable to Technology Education teachers are addressed by Dr. Ruda..

12. Project Lead the Way-Laboratory Development

Presenters: Dr. Michael Wright and Ben Yates, University of Central Missouri
Chair: Susan Bastion, PSU
Time: FR, 9:00-9:50 AM
Location: S111 KTC

This exciting session will introduce the new "Project Lead the Way" program and laboratory developed at Central Missouri State University to prepare teachers for high school "engineering" instruction. PLTW has developed a four year sequence of courses which, when combined with college preparatory mathematics and science courses in high school, introduces students to the scope, rigor and discipline of engineering and engineering technology prior to entering college. The courses are:

- Introduction to Engineering Design
- Digital Electronics
- Principles of Engineering
- Computer Integrated Manufacturing
- Civil Engineering and Architecture
- Biotechnical Engineering (in development)
- Aerospace Engineering (in development)
- Engineering Design and Development

Participants will learn how this new approach can enhance your technology education program and information for implementation will be provided.

13. The Crossland Connection

Presenters: Clay Kubicek, Crossland Construction & Lynn Hoover, Frontenac HS
Chair: John White, John White, St. Mary's-Colgan High School, Pittsburg, KS
Time: FR, 9:00-9:50 AM
Location: W110 KTC

The Crossland Connection is a business/school partnership designed to create a career path for students interested in the construction industry. Crossland Construction Company has embarked on a mission to help students investigate and prepare for a rewarding and professional career in the construction industry. It is Crossland's belief that this industry provides an excellent opportunity for students to find an intellectually stimulating and financially rewarding career. Participants will learn how this unique program can enhance your technology education program and information for implementation will be provided.

14. **Tool Time**

Presenters: Keith Aiken, Frontenac High School,
Rocky Restivo, Technology Ed Graduate Asst., Pittsburg State University
Hannah Burdette, Technology Ed Major, Pittsburg State University
Michael Neden, Pittsburg State University
Chair: Michael Neden, PSU
Time: FR 10:00-11:30PM
Location: S102 KTC Lecture Auditorium **Limited to 90 Attendees**

Do you know what time it is? It's "Tool Time," of course. Limited to 90 attendees.

This fun-filled Focus Session will feature a variety of new "tools, equipment, and projects" that can be used in the Technology Education classroom and laboratory. Your "professional" hosts, will introduce various tool and supply vendors and presenters in a quick hitting format that will keep you going for the entire session. Some "freebees" will be passed out during the session, so you won't want to miss this exciting presentation.

C. Technical Education—General Interest (High School, Post-Secondary, College)

1. Teaching Residential Construction Program in Prison System

Presenter: Doug Deeds, Ellsworth Corrections Facility and Ted McCormick, PSU
Chair: Ted McCormick, PSU
Time: TH, 9:30-10:20 AM.
Location: W110 KTC

A unique construction program—from foundation to finished house, used in a minimum security prison will be presented.

2. Retirement and Social Security

Presenter: Tonya Butler, Social Security Administration
Chair: Ted McCormick, PSU
Time: TH, 10:30-11:20 AM
Location: S109 KTC

As teachers progress in their careers, they face the realities of retirement and social security. How much do you really know about it? Find out.

3. Tort Law and Technical Education

Presenter: Ted McCormick, Pittsburg State University

Chair: Doug Deeds, Ellsworth Corrections Facility

Time: TH, 11:30 AM-12:20 PM

Location: S109 KTC

Are you as a technical education teacher comfortable with your present knowledge of tort law? Do you know how it can impact you? Find out.

4. K.I.T.E. – Kansas Institute of Technical Excellence,

Presenter: Steven Swartz, Hutchinson Community College

Chair: Dr. Greg Belcher, PSU

Time: TH, 1:30-2:20 PM

Location: S109 KTC

Steve Swartz will share about the Kansas Institute of Technical Excellence. What is it? What is its mission? What do you need to know about it?

5. Building Skills – An Introduction to the Building Trades

Presenter: Chuck Knoepker, Educational Consultant, Paxton-Patterson

Chair: Dr. Bruce Dallman, PSU

Time: TH, 2:30-3:20 PM

Location: W110 KTC

This program will demonstrate how to teach an introductory construction program using the Building Skills program. This program is an efficient way to explore up to 17 construction trade areas and teach foundational construction skills. A free construction DVD and curriculum sample will be provided.

6. Kansas Trade and Industry Program Standards

Presenter: Don Schaeffer, T & I Consultant, Kansas State Department of Education

Chair: Dr. Greg Belcher, PSU

Time: TH, 3:30-5:00 PM

Location: S109 KTC

Program discusses requirements for Trade and Industry program in Kansas.

7. Using FIRST Robotics as a Recruitment Tool for Tech Ed and T&I

Presenter: Shawn Taylor, Newton High School/Hutchinson Community College

Chair: Dr. Greg Belcher, PSU

Time: FR, 8:00-8:50 AM

Location: S109 KTC

A precision machining instructor shares how his involvement with FIRST Robotics has proven to be a great recruitment for his program; and how FIRST Robotics has been instrumental in the success of student careers. Presentation includes:

A. What is FIRST Robotics?

B. Attracting high achieving students to elective classes

C. Why robotics works

D. Program results (students in college engineering & technology programs)

E. How our robotics team can help you

8. Safety in the Technology Lab, Dr. Fred Ruda, Ft. Hays State University
See page 3 for description. FR, 8:00-8:50 AM.

9. Project Lead the Way-Laboratory Development, Dr. Michael Wright & Ben Yates,
University of Central Missouri
See page 3 for description. FR, 9:00-9:50 AM

10. The Crossland Connection, Clay Kubicek, Crossland Construction and Lynn Hoover,
Frontenac High School
See page 4 for description. FR, 9:00-9:50 AM

**11. Forum: Forming Technical Partnerships Between High Schools, Community Colleges,
and Universities**

Moderators: Mel Whiteside and Buford F. Pringle, Butler (KS) Community College
Chair: Dr. Larry Williamson, PSU
Time: FR, 9:00-9:50 AM
Location: S109 KTC

Forum to discuss challenges associated with developing partnerships in technical education,
including articulation and accreditation issues, college credit, etc. FR, 9:00-9:50 AM

12. Laminated Long Bows as a Recruitment Tool for your Program

Presenter: Troy Ifland, Williamsburg High School (KS)
Chair: Dr. Greg Belcher, PSU
Time: FR 10:00-10:50 PM
Location: E119 KTC

Troy shares how he used the making of laminated long bows a recruitment tool for his program. The
how-to of long bow manufacturing will be shared, including necessary materials and the laminating
process. This is an high interest activity.

D. Human Resource Development (Business & Industry)

1. Coaching Skills

Presenter: Jerry Smith
Chair: Dr. Joni Barnard, PSU
Time: TH, 9:30-10:20 AM
Location: S207 KTC

Personal and business coaching is getting more press. What are the fundamentals of professional
coaching and how can they be applied to both business and personal life? This presentation will
discuss the nature of coaching and some of the tools and techniques for achieving success in work,
life and in balancing the two

*Jerry Smith is a qualified life coach based in Kansas City. He works with successful individuals and
businesses to help them balance the demands of career, family, friends and personal development.*

2. Emotional Intelligence: The Leadership Advantage

Presenter: Dr. Darrell Ray
Chair: Dr. Joni Barnard, PSU
Time: TH, 10:30-11:20 AM
Location: S207 KTC

You probably know someone who got great grades in school, does well on academic tests, breezes through college courses, but can't seem to get their life together. They are plenty intelligent to have a great career, but never seems to get off the ground. Maybe you know someone who is a good leader but may not have done particularly well in school yet they seem to be able to naturally motivate and lead people. Intelligence accounts for only a part of life success, a much greater portion of success comes from Emotional Intelligence. Effective leaders are not necessarily the most intelligent but they often are the most emotionally intelligent. This workshop will explore the concept of emotional intelligence and how it can be measured and improved.

Dr. Darrel Ray is director of The Institute for Performance Culture. He has consulted throughout the United States, specializes in Management Development and has worked with groups and organizations in development and change efforts throughout his career. A graduate of George Peabody College of Vanderbilt University, he holds a doctorate in counseling psychology, and has written two books called Teaming Up and The Performance Culture.

3. Research: A Misunderstood Concept

Presenter: Dr. Sybil McClary, Ottawa University
Chair: Dr. Robert Schwindt, PSU
Time: TH, 11:30 AM-12:20 PM
Location: S207 KTC

Research is such a misunderstood concept. It refers to both 1) library or archival research in which students or scholars look up facts, figures, and findings in the library literature or in information systems as well as 2) the development of research projects in which data is collected to answer questions according to specific scientific procedures. These two types will be compared.

Sybil McClary, Ph.D. is a Professor of Organizational Behavior and Psychology at Ottawa University. She is also the Research Chair of the Kansas City Chapter of the American Society for Training and Development (ASTD).

4. Preventing and Responding to Crisis (3-Hour Seminar), Randall Listrom, President, Listrom and Associates LLC

See description below, under "Safety", pages 8 & 9.

TH, 1:30 PM-4:30 PM.

5. Pursuing your Doctorate Degree

Presenter: Dr. Michael Daugherty, University of Arkansas
Chair: Dr. Mark Johnson, PSU
Time: TH, 1:30 PM-2:20 PM
Location: S207 KTC

In this informational session, Dr. Michael Daugherty will discuss the Ed.D. program in Workforce Development and Education at the University of Arkansas. The Workforce Development graduate education program is designed to increase the learning and performance capacities of individuals and organizations. Options in Workforce Leadership and Human Resource Development will prepare graduates for leadership, teaching, and research careers.

Dr. Michael Daugherty is the interim chair in the Department of Rehabilitation, Human Resources, and Communication Disorders in the College of Education and Health Professions at the University of Arkansas at Fayetteville. 200FSRFFHumHUnaH2006

6. The Future Workplace Learning Professional

Presenter: Nathan Young, Training Leader for Global Procurement, Hallmark
Chair: Dr. Mark Johnson, PSU
Time: TH, 2:30 PM-3:20 PM
Location: S207 KTC

In this informative session Nathan Young (a graduate of the HRD program) will discuss trends and evolutions in the workplace and how they will impact learning and development of personnel.

7. Forum: Forming Technical Partnerships Between High Schools, Community Colleges, and Universities, Moderators: Mel Whiteside & Buford F. Pringle, Butler Community College (Kansas)

See page 6 for description.

FR, 9:00-9:50 AM.

E. Safety (Strand of Programs from other Areas)

1. What Instructors Need to Know about Construction Safety

Presenter: Pat Flynn, Pittsburg State University
Chair: Randall Timi, PSU
Time: TH, 10:30-11:20 AM
Location: E119 KTC

Are you teaching construction or building trades? Learn about what every teacher should know and practice in teaching construction subjects. TH, 10:30-11:20 AM

2. Tort Law and Technical Education, Ted McCormick, Pittsburg State University

See page 5 for description.

TH, 11:30 AM-12:20 PM.

3. Preventing and Responding to Crisis (3-Hour Seminar)

Presenter: Randall Listrom, President, Listrom and Associates LLC
Chair: Pat Flynn, PSU
Time: TH, 1:30-4:30 PM
Location: S102 KTC Lecture Auditorium **Limited to 90 Attendees**

Three hours of instruction in "Preventing and Responding to Crisis. Schools are looking for answers regarding the prevention of crisis situations. If one should occur, how should they respond? Find potential solutions and answers in this seminar. The agenda for the seminar follows:

Hour 1

- Difference between emergency, crisis and catastrophe
 - Emergency threatens the ability to achieve goals
 - Crisis threatens the ability to achieve the Mission
 - Catastrophe threatens the organization and its Vision
- The role of Policy and Procedure
 - Policy sets the Mission or generalized desire
 - Procedure sets in place mandated actions or responses
 - Procedures can lead to unintended consequences
 - Paradigms (Columbine High School)
 - Use of secondary devices at "rally points"

- Procedures can be used by ill-meaning persons to worsen the event
- What can really happen?
 - Man made events
 - Hostage-barricaded events
 - Explosive events
 - Natural events
 - Weather
 - Fire

Hour 2

- Managing the event
 - Incident **C**ommand **S**ystem (ICS)
 - Incident Commander
 - Logistics
 - Operations
 - Finance
 - Media
 - National Incident Management System (NIMS)
 - Need to partner with
 - Emergency Management
 - Law Enforcement
 - First Responders (Fire and EMS)
 - Non-Governmental Organizations (NGO)

Hour 3

- Overview of prevention-CARVER Model
 - **C**riticality-How critical is the facility?
 - **A**ccessibility-How accessible is the facility?
 - **R**ecoverability-Could we “recover” by using “redundancy”?
 - **V**ulnerability-How would they do it?
 - **E**ffect on population-How would this impact us?
 - **R**esponse-What response could we mount?
- Time sensitive nature of Carver-What is happening now in our community?
 - Community events
 - School events
 - Conventions-sports events
- Role of Pre-planning
- Role of plan evaluation and tests

Each segment would be supported by a PowerPoint Presentation. I have some very impressive slides. I attended an OPD class in Socorro, New Mexico where we blew up everything from blasting caps to a 500 pound AMFO (fertilizer and fuel oil) car bomb-and everything in between. The slow motion video of pipe bombs and letter bombs is terrific. Additionally, when I was deployed in response to Hurricane Katrina I obtained some spectacular aerial and ground photographs of the Pass Christian, Mississippi area

4. SAWSTOP—The Safety Saw

Presenter: Rod Murphy, DEPCO,LLC

Chair: Lindy Thomsen, PSU

Time: TH, 2:30-3:20 PM

Location: E119 and Lab (TBD) KTC

Learn how school liability and costs, and injuries can be reduced using SAWSTOP cabinet saws. A live demonstration will show how this type of safety saw can impact manufacturing and construction safety programs..

5. Safety in the Technology Lab, Fred Ruda, Ft. Hays State University

See page 3 for description.

FR, 8:00-8:50 AM.

D. Technical Specific Sessions

Audience: High School Technology Ed Teachers; Technical School/College Technical Ed and T&I Instructors; and University Industrial Tech and Engineering Tech Faculty

1. Manufacturing -Related Sessions -Wood

a) Jigs & Fixture Design and Applications-Revisited

Presenter: David Miles, PSU, Wood Technology
Chair: Lindy Thomsen, PSU
Time: TH, 9:30 AM-11:20 AM
Location: E120 and Lab (TBD) KTC

A very popular two-hour presentation from last year is revisited this year with additional jig & fixture ideas and techniques. Product literature and handouts will be made available to all participants. This is a must presentation for high school and technical college wood technology, cabinetmaking and furniture teachers.

b) Hardware Innovations in Product Manufacturing-Revisited

Presenter: David Miles, PSU, Wood Technology
Chair: Lindy Thomsen, PSU
Time: TH, 11:30 AM-12:20 PM
Location: E120 KTC

Paul Keifer returns with the very latest in hardware ideas and applications. Again, this is a must presentation for high school and technical college wood technology and cabinetmaking teachers.

c) SAWSTOP—The Safety Saw, Rod Murphy, DEPCO,LLC

See page 9 for description.

TH, 2:30 PM-3:20 PM.

d) WoodLINKS

Presenter: Mark Smith, WoodLINKS Teacher, Shiloh High School, Hume, IL
Chair: David Miles, PSU
Time: TH, 1:30 -2:20 PM
Location: E120 KTC

Mark Smith, WoodLINKS USA teacher, shares about the unique program linking wood programs of all levels to one another and to industry. Learn about it and how you can be a part.

e) Wood Finishing Techniques, Materials, and Equipment

Presenter: Todd Gragg, Gragg's Paint
Chair: David Miles, PSU
Time: TH, 3:30 PM-5:00 PM
Location: E120 and Lab (TBD) KTC

This will be a two-hour, hand-on presentation about new finishes and specific techniques that can improve final appearance of finished wood products. Again, this is a must presentation for high school and technical college wood tech and cabinetmaking teachers, who want to improve their quality of product's finish.

f) CNC Applications for Wood and Plastics

Presenter: Jason Withrow, MAMTC
Chair: Dr. Jim Sours, PSU
Time: FR, 8:00 AM-8:50 AM
Location: E120 and E145 KTC

Learn about machining of co-extruded plastics and product applications, as well as CNC tooling and techniques for optimizing material usage and maximizing 3-axis CNC performance. Live demos of product machining will be featured.

g) Adhesives & Techniques

Presenter: TBD, 3M
Chair: David Miles, PSU
Time: FR, 9:00 AM-9:50 AM
Location: E120 and Lab (TBD) KTC

Description of session to be provided soon. Not confirmed at press time. See addendum.

h) Laminated Long Bows as a Recruitment Tool for your Program, Troy Ifland, Williamsburg High School (KS)

See description on page 6.

FR 10:00-10:50PM

2. Manufacturing -Related Sessions –Metals and Plastics

a) NASA Moon Buggy Competition—Matching Science with Technology

Presenters: Eric Craft, Erie (KS) High School and Dr. Larry Williamson, PSU
Chair: Dr. Larry Williamson, PSU
Time: TH, 9:30-10:20 AM
Location: S120 and S121 KTC

Participants in NASA'S Great Moon Buggy Race share experiences and insights into this competition. Participants will learn the benefits to students and how your school can get involved in this competition. Kansas and Missouri schools have placed 1st or 2nd (Erie, KS in 2006) in recent years, while PSU has been National Champion in '99, '01, and '06. Learn how you can be part of Midwest success story.

b) PSU Cube Making—CNC Past and Present,

Presenters: Chris Anderson and Dr. Larry Williamson, Pittsburg State University
Chair: Dr. Larry Williamson, PSU
Time: TH, 10:30-11:20 AM
Location: S120 and S121 KTC

From Bridgeport CNC of the 1980's to today's modern OKUMA CNC mill, the PSU cube takes shape. Demonstration of earlier tooling and today's state-of-the art tooling are featured.

c) CATIA-What Is It? David Lomshek, Pittsburg State University

Presenter: David Lomshek, Pittsburg State University
Chair: Phil McNew, PSU
Time: TH, 11:30 AM-12:20 PM
Location: E103 KTC

Learn about the 3-D modeling software used by Boeing, Chrysler, and many other major manufacturers.

d) High Pressure Water Jet/Abrasive Jet ?

Presenters: Jacob Lehman and Dr. Larry Williamson, Pittsburg State University
Chair: Dr. Jim Lookadoo, PSU
Time: TH, 1:30-2:20 PM
Location: S120 and S121 KTC

What do Orange County Choppers and PSU have in common? They both own and use high pressure water jet/abrasive jet to manufacture parts out of a wide array of materials. Live demonstration is featured, as part of presentation.

e) The Frisbee--From Mold Flow Design to Injection Molded Product

Presenters: Paul Herring and Robert Susnik, PSU, Plastics Engineering Tech
Chair: Robert Susnik, PSU
Time: TH 2:30-3:20 PM
Location: W118, W124, and W127 KTC

Participants trace the design and engineering of the PSU Frisbee mold, using *Mold Flow* software (demo) to its automated production on a new all electric [non- hydraulic] Engle injection molding machine equipped with a robotic arm (demo). Sample product is provided. Note: Visit the flexo-press demonstration (E106 at 3:30 pm) immediately following to see how the labels for the Frisbees are made.

f) Flexography Press—Printing those Labels, Doug Younger, Pittsburg State University, Graphics and Imaging

See page 15 for description. TH, 3:30-4:20 PM.

g) American Welding Society SENSE Welding Program, Coordinator: Phil McNew, PSU-Mfg Eng. Tech

Coordinator: Phil McNew, Pittsburg State University
Chair: Dr. Jim Lookadoo, PSU
Time: FRI, 8:00-11:45 AM, LUNCH (11:45-1:00 PM), & 1:30-3:45 PM;
SAT, 8:00 AM-3:00 PM
Location: S120 and S121 KTC

The SENSE Welding program is sponsored by the Kansas Department of Education. **Participants must be pre-approved for participation by KSDE.** This is the first day of a two-day, 12-hour session. For information contact Don Schaeffer.

h) CNC Applications for Wood and Plastics, Jason Withrow, MAMTC

See page 11 for description. FR, 8:00 AM-8:50 AM.

i) Adhesives and Adhesion Techniques, ____, 3M (TBC)

See page 11 for description. FR, 9:00 AM-9:50 AM.

3. Mechanical/Design/CAD/Engineering/Electronics Sessions

a) NASA Moon Buggy Competition—Matching Science with Technology, Eric Craft, Erie (KS) High School and Dr. Larry Williamson, PSU

See page 11 for description.

TH, 9:30-10:20 AM.

b) **Lego Robotics**

Presenter: Jim Henning & Randy Winzer, PSU, Elec. Eng. Tech
Chair: Jim Henning, PSU
Time: TH 10:30-11:20 AM
Location: W218 KTC

Session shares how Lego robotics can be used to introduce students to robotics. Footage from summer robotics workshop/competition will be shown.

c) **CATIA-What Is It?** David Lomshek, Pittsburg State University

See page 11 for description.

TH, 11:30 AM-12:20 PM

d) **BASIC STAMP Microcontrollers**

Presenter: A.O. Brown, PSU, Elec. Eng. Tech (retired)
Chair: Jim Henning, PSU
Time: TH 1:30-2:20 PM
Location: W218 KTC

Description not available at press time. See addendum.

e) **Using FIRST Robotics as a Recruitment Tool For Tech Ed and T&I**, Shawn

Taylor, Newton High School/Hutchinson Community College

See page 5 for description.

FR, 8:00-8:50 AM.

f) **Structured Wiring and Home Automation**

Presenter: Jeff Brooks, Electrical Technology, Pittsburg State University
Chair: Jim Henning, PSU
Time: FR 9:00-9:50 AM
Location: E225 KTC

Presentation addresses the latest developments in home automation wiring systems and home automation that are associated with *smart homes*. The new *Leviton Structured Wiring and Home Automation Display Center* serves as a backdrop to this timely presentation.

g) **Tool Time**

See page 4 for description and presenters

FR, 10:00-11:30 AM.

4. **Construction-Related Sessions**

a) **Teaching Residential Construction Program in Prison System**, Doug Deeds,

Ellsworth Corrections and Ted McCormick, Pittsburg State University

See page 4 for presentation description.

TH, 9:30-10:20 AM.

b) **What Instructors Need to Know about Construction Safety**, Pat Flynn, PSU,

Technology Management

c) **Energy Conservation in Construction-New Materials and Mechanical Systems**

Presenter: Shannon Nicklaus, PSU Construction Eng. Tech
Chair: Dr. Bruce Dallman, PSU
Time: TH, 11:30 AM-12:30 PM
Location: W110 KTC

Focus is on material and construction techniques that lead to more efficient homes. Special emphasis is on mechanical systems (i.e., heating and air systems) that contribute to overall energy efficiency of buildings.

d) **ADT--As Easy As 1,2,3 [Architectural Desktop]** Vince Puyear, Hutchinson Community College

Presenter: Vince Puyear, Hutchinson Community College
Chair: Justin Honey, PSU
Time: TH, 1:30 AM-2:20 PM
Location: S106 KTC

Need to complete a set of house plans quickly and efficiently and have the ability to revise them easily? See how you can create residential plans that are 3D parametric models used for construction blueprints or product visualization. This section will deal with creating walls, doors, windows, roofs, elevations, details, and schedules.

e) **Building Skills--An Introduction to the Building Trades**, Chuck Knoepker,

Educational Consultant, Paxton-Patterson

See page 5 for presentation description.

TH, 2:30-3:20 PM

f) **Structured Wiring and Home Automation**

Presenter: Jeff Brooks, Electrical Technology, Pittsburg State University
Chair: Dr. Vern Morton, PSU
Time: TH, 3:30 PM-4:30 PM.
Location: E225 KTC

Presentation addresses the latest developments in home automation wiring systems and home automation that are associated with *smart homes*. The new *Leviton Structured Wiring and Home Automation Display Center* serves as a backdrop to this timely presentation.

Repeated: FR 9:00-9:50 AM

g) **AutoDesk Revit-A Building Solutions Program**

Presenter: Bill Strenth, PSU Construction
Chair: Shannon Nicklaus, PSU
Time: FR, 8:00 AM-8:50 PM
Location: S106 KTC

Information and demonstrations about one of the newer software tools of architects and contractors is presented. Building solutions range from the most advanced technology for building information modeling (BIM) to the most widely adopted design and documentation solutions, supporting information and management needs throughout the building lifecycle.

h) **The Crossland Connection**, Clay Kubicek, Crossland Construction and Lynn Hoover

Frontenac High School

See page 4 for description.

FR, 9:00-9:50 AM.

i) **Tool Time**

See page 4 for description and presenters

FR, 10:00-11:30 AM.

5. Communications Technology and Graphics-Related Sessions

a) **Screen Printing Curriculum and Competition**

Presenters: Dr. Jess Hudson and Mary Wilson, Hix Corporation
Chair: David Sours, PSU
Time: TH, 9:30-11:20 AM
Location: E203 and E215 KTC

Participants learn about a recently introduced screen printing curriculum and experience the screen printing process—t-shirt activity.

b) **Trends in Information Technology**

Presenter: Steve Iden, Xerox
Chair: Linda Grilz, PSU
Time: TH, 11:30 AM-12:20 PM
Location: S103 KTC

Learn the latest technologies associated with information technology and on-demand printing.

c) **Composition: Photos that Attract**

Presenters: Dr. Robert Wiseman, Eastern Illinois University, and
Robert Ferro, PSU, Graphics and Imaging
Chair: Bonnie George, PSU
Time: TH, 1:30-2:20 PM
Location: S103 KTC

Learn about techniques in composition that bring positive attention to subjects of photographs.

d) **Teaching Design Online**, David Oldham, PSU, Graphics and Imaging

Presenter: David Oldham, PSU, Graphics and Imaging
Chair: Bonnie George, PSU
Time: TH, 2:30-3:20 PM
Location: S103 and S104 KTC

Presentation will demonstrate how a class that requires hand made sketches but no specialized software can be taught online. Using the online delivery technology known as Blackboard, photographs and email exchanges, sophomore students are taught how to develop design concepts, do many thumbnail sketches, developmental roughs and final sketches without ever meeting in a classroom.

e) **Flexography Press-Printing those Labels,**

Presenter: Doug Younger, Pittsburg State University, Graphics and Imaging
Chair: David Sours, PSU
Time: TH, 3:30-4:30 PM
Location: S103 and S104 KTC

Flexography is explained and the flexo-press is demonstrated in the making of labels for PSU Frisbees.

6. Automotive/Power/Energy/Transportation Systems-Related Sessions

a) **Permatex-Product Applications in Automotive Repair**

Presenter: Keith Lamkins, Permatex
Chair: Dr. Roger Adams, PSU
Time: TH, 9:30-11:20 AM
Location: N109 KTC

The use of Permatex products—gaskets, sealants, antiseize, and plastic repair products are featured in this two-hour presentation. Product literature will be distributed and product samples may be available.

b) **The Korean Mini-Baja Experience**

Presenters: Dr. John L. Iley, Pittsburg State University, and
Shawn Winkler and Mark Turner, PSU Korean Mini-Baja Team
Chair: Matthew Keller, PSU
Time: TH, 11:30AM -12:30 PM
Location: N115 KTC

The PSU Mini-Baja Team made history, as the first American team to live in Korean for five month and build a Mini-Baja vehicle, and then on July 16th becoming the first team American team to win the Korean Mini-Baja Endurance Race. Learn about their experience. See video footage of vehicle fabrication and race.

c) **Automotive Reflashing—Where is it Going?**

Presenter: Dennis Flanery, Vetronics Corporation
Chair: Ron Downing, PSU
Time: TH, 1:30 AM-4:30 PM
Location: N109 KTC

This 3-hour presentation provides in-depth information on reflashing automotive computers on models equipped with OBDII. Automotive teachers and technicians need to be aware of reflashing and where it is going.

d) **Opportunities in the Collision Repair and Insurance Industry—the Pitt State Response**

Presenter: John Thompson, PSU, Automotive Tech
Chair: Dr. Robert Frisbee, PSU
Time: TH, 1:30-2:20 PM
Location: N117 KTC

Presentation features new developments and opportunities associated with the collision repair industry; opportunities for collision repair specialists; and career paths for technicians that desire management positions; and the BAS program as a compliment to community/technical college AAS degree programs in collision repair.

e) **Sherwin-Williams Automotive Finish Technologies**

Presenter: Kenny Wiechman, Sherwin-Williams, Wichita, KS
Chair: Matthew Keller, PSU
Time: TH 2:30-3:20 PM
Location: N116 KTC

Sherwin-Williams automotive finishing specialist present new products and techniques that can benefit automotive Collision repair technicians and teachers.

f) **Automotive Service Technology Contest Update: KS SkillsUSA and Ford-AAA,**

Presenters: Ann Wick, Kansas SkillsUSA Advisor, and
Ron Downing, Pittsburg State University–Automotive Tech
Chair: John Thompson, PSU
Time: FRI, 8:00-8:50 AM
Location: N117 KTC

Updates on both the Kansas SkillsUSA Automotive Service Technology Competition and Ford-AAA Competition. Obtain the latest updates and learn how your students can prepare to be a part of this competition The latest SkillsUSA info and packets from Ford-AAA will be disseminated.

g) ***Bridgestone-Firestone New Tire Technologies***

Presenters: Scott Long and Mike O'Neill, Bridgestone-Firestone
Chair: Robert Schroer, PSU
Time: FRI, 9:00-11:30 AM
Location: N109 KTC

A 2.5 hour presentation that provides state-of-the-art information about “run-flat” technology, low profile tire mounting techniques, and other new tire technologies. This is a must presentation for automotive instructors at all teaching levels.

F. Scheduled Tours

1. **Center for Harley-Davidson Motorcycle Service Technology and Professional Development, FSCC, Frontenac, KS (Demos Planned)**
2. **John Deere Ag Tech Facility, FSCC, Frontenac, KS (Demos Planned)**
3. **Depco, Pittsburg, KS – national supplier for Technology & Technical Ed**

G. Other scheduled Activities in Conjunction with Conference

1. *Technology Collegiate Association (TECA) Southwestern Conference and Competition*, PSU, Kansas Technology Center
2. **Kansas Technology Education Association Fall Meeting and Dinner**

H. Conference Complimentary Meal Functions (included in Registration Costs)

1. *Thursday Noon Lunch*, PSU, Kansas Technology Center
2. *Friday Conference Luncheon*, featuring dinner, speaker Dr. Bruce Dallman (Dean, PSU College of Technology), awards presentations, and door prizes

For more information, see Website: www.FSRTC.org