



## Project Lead the Way Ohio 2008 Fall Conference

### Day 1: Program Session Descriptions

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#### **Bridging Gateway to PLTW & Recruiting Women and Minorities**

**Panel:**

**Deb Lukjanovs**

*Program Coordinator, PLTW Ohio State Affiliate*

**Meg Draeger**

*Program Manager, Miami Valley Tech Prep Consortium, SCC*

This session will cover recruiting practices and resources that will aid counselors in attracting women and minorities, and also give practical tips on how to retain Gateway to Technology students so that they will sign up for PLTW courses at their high school rather than stopping at the middle school level.

#### **Industry Today & STEM/Breadth of Engineering Education**

**Panel:**

**Dr. George Sehi**

*Dean of Science, Mathematics & Engineering division  
Sinclair Community College*

**Dr. Dan Evans**

*Chief -Processing and Fabrication Branch, WPAFB*

This discussion will focus on industry's need for students prepared in Science, Technology, Mathematics and Engineering and look at the breadth of engineering courses, programs, and degrees.

#### **Becoming a Master Teacher**

**Panel:**

**Dick Blais**, *PLTW National- VP for State & Corporate Relations*

**Ryan Benroth**, *Miller City HS*

This panel will give some insight into the need for, and the requirements to become, PLTW master teachers. New master teacher Ryan Benroth will speak about the application process and his first year as a master teacher.

#### **Ohio Data/WebXam**

**Presenter:**

**Dr. Bob Mahlman**,

*Interim Director, CETE  
The Ohio State University*

Dr. Mahlman will share information on Ohio's new data collection process, revision of the WebXam middle school screens, and the results of the 2007-08 school year data

#### **True Outcomes**

**Presenter:**

**Dr. Joy Krueger**,

*PLTW National,  
Director of True Outcomes Data Collection*

Dr. Krueger will explain the school's reporting responsibilities, the process for entering data, and she will also share data from this past school year.

#### **Developing Mentorships/Internships: Working with Business & Industry**

**Presenters:**

**Tom Bratten**, *Canton South HS*

**Steve Stokey**, *Allied Machining*

**Steve Bushman**, *LUK, Inc.*

Learn how these committed business and school leaders have leveraged their relationships within the community to bring PLTW students into win/win relationships with local industry.

#### **Executive Council Roundtable**

**Panel:**

**Dave Powell**,

*Chairperson, PLTW Ohio Executive Council*

This is an opportunity to discuss your program needs, barriers, and ways which you can engage business and industry locally and regionally. This is an open discussion format.

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### Working with Tech Prep

**Presenter:**

**Nenna Davis**

*College Tech Prep Director, Ohio Department of Education*

Perkins V provides a new definition for College Tech Prep, including new application procedures. Ms. Davis will discuss these procedures and provide information on how to work with your local consortium to obtain a College Tech Prep designation.

### Preparing for National Certification

**Presenter:**

**Deb Lukjanovs**

*Program Coordinator, PLTW Ohio State Affiliate*

What does it take to become a nationally certified school? What can you expect when you set up an appointment for an evaluative site visit? Find out the answers to these and other questions in this session.

### The New STEM Initiative: Biomedical Science

**Panel:**

**Joyce Boudreau,**

*Education Consultant, Ohio Department of Education*

**Dr. Bill Tacon,** *Senior Program Director, BioOhio*

**Mike McDaniel,**

*Superintendent, Ashland West Holmes Career Center*

Take a look at one of Ohio's new Biomedical Science programs – how it is being rolled out, what opportunities there are for schools, and the needs of Ohio's biomedical community's workforce, both now and in the future.

### Using Blackboard as a Curriculum Enhancement

**Presenter:**

**Al Fazenbaker**

*PLTW Teacher, Auburn Career Center, Madison HS*

The Blackboard system has increased Mr. Fazenbaker's ability to successfully deliver his PLTW curriculum, and has enhanced his students' PLTW experience and made it more relevant to them. He will share his ideas and successes with other teachers and interested individuals.

### Choose Ohio First Scholarship Awards

**Presenter:**

**Dr. Ed Evans**

*University of Akron*

The University of Akron (lead institution) will partner with Baldwin-Wallace College, Stark State College of Technology and Lorain County Community College to attract and graduate an estimated 790 students in STEM fields in five years. The group's proposal, "STEM Undergraduate Engagement in an Engineering Environment," demonstrated innovation in the areas of student learning communities, early academic intervention, redesigned science modules and a cooperative education program that will include more than 90% of its students.

### Certificate of Completion & Transcribing Credit

**Vicky Korosei**

*Advising Center, Sinclair Community College*

**Ed Yager**

*PLTW Teacher*

Ms. Korosei will let counselors in on the process for obtaining credit for PLTW classes on a student transcript from Sinclair Community College. This credit can then be transferred to other institutions. Mr. Yager will discuss his students' success in obtaining and transferring credit with the Certificate of Completion and with Sinclair's process.

### PLTW Ohio Student Innovators

**Presenter:**

**Doug Powhida**

*Design Manager, COSI Experience Division*



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### Perkins Reporting

#### Presenters:

**Rick Mangini**, Associate Director, CTAE, Ohio Department of Education  
**Dr. Kathy Sommers**, Assistant Director, CTAE

This session is designed to aid schools in complying with the new Perkins reporting and will feature the new Program of Study requirement.

### Gateway Summer Academies

#### Panel:

**Bart Aslin**, Chief Foundation Officer, Society of Manufacturing Engineers  
**Tad Douce**, River Valley Middle School  
**Todd Alkire**, North Canton Middle School  
**Betsey Bhasker**, Columbus City Schools  
**Joshua Sarver**, COSI

This session focuses on the Gateway Academies' curriculum and activities by highlighting some of the teachers and administrators who hosted camps this year. Mr. Aslin will discuss future opportunities for Ohio schools that may wish to host academies next summer.

### Where are PLTW students going? Articulation

#### Panel:

**Dr. Dave Dickinson**, Professor Emeritus, The Ohio State University  
**Chad Weaver**, PLTW teacher, Timken HS  
**Steve Peck**, Counselor, Miller City HS

This panel looks at which colleges and universities are articulating college credit, how students can successfully obtain credit for PLTW classes across the state, and what some of their experiences have been with various colleges and universities.

### PLTW Ohio Website Updates

#### Presenters:

**Deb Lukjanovs**, Program Coordinator, PLTW Ohio State Affiliate  
**DeeDee Martin**, Martin Solutions, Inc.

In this session, we will focus on the improvements and important updates including the addition of teacher resources to the PLTW Ohio website for 2008 and also discuss YOUR ideas for improvements and enhancements to the website.

### New Programs

#### Presenter:

**Dr. Kathy Sommers**

This session provides practical information both for new programs in 2008-09 and for those schools that may be considering joining PLTW.

### Creating 21<sup>st</sup> Century Communities/iSpace

#### Presenters:

**Dr. Kathy Sommers**  
**Linda Neeman**, Director of iSpace

21<sup>st</sup> Century Communities extend formal STEM learning into community-based activities. This session looks at creative ways to integrate the Gateway Summer Academy into an after school program.

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## Project Lead the Way Ohio 2008 Fall Conference

### Day 2: Program Session Descriptions (Teachers Only)

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#### Principles of Engineering

**Presenters:**

*Cathrine Summer, Army Education Liaison*  
*Peter Leeper, Master Teacher*  
*Craig Abram, PLTW Teacher*

This session is required for all POE teachers and will cover the curriculum enhancements currently being piloted in Ohio as a result of the collaboration between America's Army and PLTW.

#### Introduction to Engineering Design

*Tom Singer, Affiliate Faculty, Sinclair Community College*  
*Bill Small, Master Teacher*

Roundtable for new or established programs to share ideas for new projects and look at curriculum issues with a master teacher and an affiliate faculty member active in teaching the Summer Training Institute classes in IED.

#### Digital Electronics

*Ed Yager, PLTW Teacher*  
*Chad Weaver, Master Teacher*

Session designed to allow new or established programs to trade ideas and issues from their classrooms and obtain answers from two experienced DE teachers.

#### Gateway to Technology

*Steve Wendel, Affiliate Faculty, Sinclair Community College*  
*Don DeMarco, Fredericktown*

This GTT teacher roundtable will focus on classroom delivery of two of the PLTW modules (Design and Modeling and Automation and Robotics) and projects not covered in the curriculum.

#### Biomedical Science

*Autum Barry, Master Teacher*  
*Dave Gordon, Biomedical Teacher*

With a full year of the biomedical curriculum under their belts, these biomedical teachers will share both their training experiences and their experiences in the classroom.

#### ImaginIT Level 1, Basic Inventor

*Elvis Sverko, Manufacturing Solutions Division, IMAGINIT Technologies*

This session is recommended for instructors who are in their first or second year of using Inventor software, or those who still feel unfamiliar with Inventor. Basic modeling will be demonstrated, both part and assembly.

#### ImaginIT Level 2, Advanced Inventor

*Elvis Sverko, Manufacturing Solutions Division, IMAGINIT Technologies*

This session is recommended for instructors who feel comfortable with Inventor basics. Some examples of topics covered are advanced geometry creation tools (centerline and area lofts, sweeps, coils), analysis tools, or importing and exporting data.

#### Computer Integrated Manufacturing

*David Lord, PLTW Teacher*  
*Jeff Donbar, Affiliate Faculty, Sinclair Community College*

Learn tricks and tips and get software info and classroom tips; you will be working in Sinclair's robotics lab where CIM classes are held.

#### Civil Engineering and Architecture

*Steve Carter, Master Teacher*  
*Eric Dunn, Affiliate Faculty, Sinclair Community College*

Learn about the CEA curriculum and how it is delivered; this session is for both teachers currently teaching CEA and those who are interested in offering it as an elective at your school in the future.

#### Engineering Design and Development

*John Koutras, PLTW Teacher*

Experienced teachers- bring the projects you did for EDD; also recommended for biomedical teachers as your chance to be introduced to research and development concepts and issues in PLTW's curriculum. The content of EDD is similar to the final module in the PLTW biomedical curriculum.

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