

Thursday

## Arlington

1:15 PM

### **CSUSB's Inland Empire Summer STEM Institutes**

This presentation will focus on the outcomes of three one week summer STEM institutes, designed for academic and CTE educators, to explore technological innovation and scientific application curriculum integration approaches. Through technological themes, the institute demonstrated how educators can collaborate, benefit, and engage students; thereby bridging gaps and making connections to academic and real-world application. Imbedded curriculum topics included but were not limited to robotics, CNC, electronics, bridge building, lasers and fiber optics, aeronautics, alternate energy, mechanisms, transportation and more.

**Joseph Scarcella**

2:30 PM

### **Four Keys to teaching and learning**

No description

**Richard Nicholson**

3:35 PM

### **Using Technology to Organize Instruction and Support All Learners**

How often have you spent time looking for materials lost in a folder at the bottom of the file cabinet? How often have you wanted to have a student watch a video to further reinforce a concept or skill? Are you tired of grading tests? Try using your own googlepages/docs to help organize yourself and increase student achievement. This presentation will use curriculum development techniques rooted in Understanding by Design to develop an effective googlesite.

**Dan Frank**

Thursday

## Citrus Heritage

1:15 PM

### Engineering by Design: A Standards based model program for Tech Ed

No Description

**Castillo**

2:30 PM

### Corrosion Principles for Industrial Technology Educators

Corrosion is responsible for billions of dollars of capital equipment loss each year. Yet in many cases some simple principles can avoid or control the damage caused by corrosion. This session will provide some basic principles for understanding and controlling corrosion in many ITE fields including manufacturing, construction, transportation, and design. Handouts and other materials will be distributed, along with simple shop activities that can illustrate and reinforce these principles.

**Seth P. Bates**

3:35 PM

### What the CNC are you doing?

Do you have a CNC machine in your wood shop? Do you use it for a variety of projects? Are you thinking of moving toward CNC? We will explore the software, fixturing, projects and tips that have worked well in my shop, including an inexpensive vacuum hold down system. Come prepared to share your experiences and lets see if we can create a resource for all instructors using CNC tools. Rather than focusing on one software this workshop will explore a variety of software, techniques and projects. Generalists and specialists both welcome. Group participation mandatory!

**Hillel Posner**

Thursday

## DeAnza

1:15 PM

### **AutoCAD 2010: Dynamic Block Creation Using the New Parametric Features**

This session will help you use smart geometric and dimensional constraints to drive your AutoCAD geometry. By combining these constraints to dynamic blocks along with the block table, you will have a powerfully dynamic block. You can use the Block Test tool to test the block so that you no longer have to get in and out of drawings to test a block.

**Ralph Jones**

3:10 PM

### **Design and Animation: Two Academy Programs – Double the Fun!**

This presentation will detail the curriculum for Two Academy Programs. Autodesk® Design Academy highlights a pre-engineering, pre-architecture design (CAD) program with STEM-based curriculum. Autodesk® Animation Academy combines technology and digital art in an exciting environment for middle and secondary students. Both of these hands-on programs articulate well into college programs opening doors in the design, engineering and entertainment industries.

**Brown**

Thursday

## La Sierra

1:15 PM

### **Raise the Bar: Industry Credentials for Building Trades & Construction Programs**

Learn about the critical workforce shortage in the construction, maintenance, pipeline/energy and utility industries and the vital role ITE Educators in California and across the nation play in developing our future workforce. The National Center for Construction Education and Research (NCCER) is a 501(c) 3 not-for-profit education foundation created by the Construction Industry to develop industry-driven standardized craft training programs with portable credentials to address this critical workforce shortage. Learn more about how to positively impact your Program Sustainability, Federal Guidelines Alignment (Perkins), Tech Prep/Pathway articulation and Industry Partnerships. Find out more about current best practices for instructional delivery through both print-based and online learning curriculum tools and resources.

**Karen Keith, NCCER Program Consultant**

2:30 PM

### **Project Lead the Way's role in ITE**

Project Lead the Way (PLTW) has been adopted by nearly 200 schools in California and is being used as an important component of their ITE offerings. The eight technology/engineering courses offered by PLTW will be described. Examples of schools that have adopted PLTW will be presented and the role these courses play in their ITE program will be discussed.

**Duane Crum**

3:35 PM

### **Steam Bending Wood made easy**

No Description

**Dixon**

Thursday

## Magnolia

1:15 PM

### **Simple yet exotic cutting boards and boxes for middle and high school students.**

Simple and detailed construction of cutting boards, and boxes with mitered corners, made with some native and exotic woods.

These projects are easy to do and will leave your students feeling proud of themselves and their parents impressed by their work-and your program.

**Bear Begelman**

2:30 PM

### **Techniques to Organize and Manage Your Woodshop**

This power point presentation will highlight organization ideas for the woodshop. They are designed to help the woodshop lab run smoother and free the instructor to spend more time focusing on instruction.

**David Sorenson**

3:35 PM

### **Table "Saw-Stops" Chaos and Brings Increased Safety to the Woodshop.**

The wood programs at the east and west ends of Simi Valley have been using SawStop tablesaws for nearly two years. Come hear and participate in a discussion on tablesaw methods, set-ups, and safety efforts to keep our students safe through proper fundamentals. While these two schools have slightly different set-ups both share considerable middle ground and methodology.

**David Sorenson**