

Friday

Arlington

9:00 AM

In Chaos, where is the Service to IT teachers

No description

Richard Nicholson

10:15 AM

NCCER Instructor Certification part I

Take the first steps toward NCCER national instructor certification. The instructor certification process will start in this session with the completion on Saturday. Teachers will learn the exact requirements for certification and complete the first section of the certification process.

Tom Vessella

11:30 AM

MTTA - Manufacturing SMPO

Lunch meeting

1:30 PM

Emerging and Promising Outreach Sources for Industrial Technology Education Programs

The process, nature and sources of industrial technology education students to post-secondary programs have changed dramatically in and outside California over the years. This presentation shows some intriguing and emerging trends in the sources of students to post-secondary industrial and technical education programs at San Jose State University. The all-encompassing, unrelenting and robust outreach efforts of the faculty at San Jose State University's Technology programs over the last several years are finally paying off. However, the traditional and expected sources of the students have dramatically changed of the years. This presentation will reveal these new sources as well as discuss the implications of all this to Industrial Technology Education programs in California and beyond.

Samuel Obi

2:45 PM

Creating Strong Stencils for Screen Printing

Evaluation of the screen printing development process to achieve strong screens for water base, discharge and plastisol printing. Key areas discussed: Screen Preparation, Screen Coating, Screen Exposure, Screen Room Environment, Emulsion Selection by Ink Type, Screen Making Methodology.

Alan Buffington

3:45 PM

High Density with Foil Screen Printing

Demonstration and hands-on workshop of special effects screen printing for t-shirts using high density film, granite (or meteor) base ink and finishing with foil.

Art Lindauer

Friday

Aviators

9:00 AM

Postcard from the leading edge

A general merger of engineering fields in the 'micro' world engendered nanotechnology and MEMs. The sizes of these devices have reached sub-cellular sizes and the 'bio' world is taking advantage of it through BioMEMs and BioNanotechnology. There is a raft of industries established in this field with a promise of an imminent explosion of new ones. Major educational institutes have addressed this industry's need for scientists and experts through collaboration between Biological and Engineering departments. This workshop attempts to fire up "occupational institutes" to join the impending industry's challenge by providing the skilled lab force

Anu Suresh

10:15 AM

Transportation, Engineering and Manufacturing teachers develop Model Curriculum

CTEonline has brought together teachers from the Transportation, Engineering & Design, and Manufacturing Industry Sectors to develop model curriculum units using online curriculum development and collaboration tools resulting in standards aligned curriculum available for free to all Ca teachers. Teachers were selected for their expertise and compensated for their efforts. This session will describe the process of curriculum development and connect teachers to the Free resources.

Paul Watters

11:30 AM

Administrators/Supervisors SMPO Lunch meeting

1:30 PM

Here Today, Here Tomorrow: Why Discipline Problems Don't Go Away and What To Do About Them

Imagine a classroom where students respond to your request the first time, where the noncompliant student learns to self-correct inappropriate behavior. Wouldn't it be great if you could stop spending so much time on addressing low-level behaviors? Eliminate the repeated warnings and requests through clear communication and expectations. In this jam-packed session, you will learn time-tested, research based strategies and techniques designed to: decrease teacher and student frustration; improve student focus; drastically reduce problem behavior; increase instructional time; and systematically teach appropriate, on-task behavior.

Marianne Cartan

2:45 PM

Case Study: The Use of External Assessments in CTE

This presentation will discuss the use of external assessments in the CTE classroom. Topics will include instructor preparation and planning, selection of appropriate assessments, ordering and proctoring of assessments, and score reporting strategies and techniques to use with students, teachers, administrators, and other stakeholders.

Dave Matuszak

3:45 PM

Programming CNC

No Description

Steve Heck

Friday

Citrus Heritage

9:00 AM

Laser Engraving for Education and Fund Raising

This workshop will highlight the LaserPro line of Engraver/Cutter machines as a part of design classes where AutoCAD or CorelDraw or other design softwares are used to create object designs and how the Laserpro can "print" designs quickly and easily while saving on time and materials. Also, how the LaserPro can be used to raise funds for schools and their various groups and projects by "labeling" or engraving school logos and other pictures and slogans on awards, plaques, balls, etc.

Alex Palermo

10:15 AM

New CTE Teacher Preparation Program

CTE Teach is a new program funded by the Governor's SB70 Career and Technical Education Initiative. The objective of the program is to provide effective, consistent, high quality professional development accessible to all California CTE Teachers. CTE Teach will meet all criteria of the "New Teacher Early Orientation" requirement, offer opportunities to establish peer coaching programs and recruit advisors to participate in the program.

Houston

11:30 AM

Wood/Construction SMPO

Lunch meeting

1:30 PM

Hands on Project based learning for in class Green STEM instruction

This will comprise of about a 1 hour long presentation covering 10 series of training programs complete with training modules and curricula mapped to entry level certifications thru the Electronics Technicians Association for project based training in Green Technologies job sectors including Solar, Wind, Hydro Power, Bio Fuels, Fuel Cells, Environmental Monitoring, Smart Grid and Energy Auditing. There will be an introductory video of the training systems followed up by a power point presentation ending with Q and A. These training systems are developed by Marcraft Inc. represented to Education by Klein Educational Systems Inc.

Joe Ray

2:45 PM

Design a Solar Panel for Low Voltage Applications

Find out how to design a Solar Panel to charge batteries. Characteristics of Solar cells will be discussed. Samples to use in the classroom will be provided.

Lyle Majeska

3:45 PM

Adding Green Building to an Architecture Course

This 3 hour Saturday workshop will introduce high school architecture teachers to the National Green Building Standards, USGBC guidelines for sustainable buildings, reference materials, and a few sample class projects.

Bill Brown

Friday

De Anza

9:00 AM

Use Inventor Studio to render and animate your Inventor 2010

Use Inventor Studio to render and animate your Inventor parts and/or assemblies.

The following topics will be covered:

Create camera from view or create a camera definition.

Choose lighting styles or light to animate.

Create a time line to control the animation .

Use 2D or 3D lines or splines for paths for camera or lights.

Drive constraints to change geometry.

Record animation and rendering for independent play back for marketing.

Holland

10:15 AM

Chief Architect X2 - Residential Design Demo

Chief Architect is a fun, powerful, and cost effective professional 3D design solution for students, educators, and schools. Whether it's residential or light commercial, Chief Architect's ease of use lets instructors focus more on teaching concepts and less on teaching software. If you're short on time, Chief Architect also includes a complete curriculum with textbooks and interactive training videos built into the software making it easy to learn and teach your design classes.

Glen Stevenson

11:30 AM

CDTC - Drafting/Design SMPO

Lunch meeting

1:30 PM

STEM Academy

Maps to National Standards(ITEA, ABET, NSTA, NCTM) Features articulation with leading universities

A comprehensive, turnkey program featuring a strong instructor training program and our consultative approach for implementation strategies to ensure your schools success. Our program features a series of courses including discovery based courses at the middle school level, broad mainline education courses at the high school level and specific advanced courses at the high school/college level. These courses feature a blended learning approach featuring video tutorials, text books and challenging hands on exercises to create Engineering Habits of the Mind

Frank Paton

2:45 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

Friday

La Sierra

9:00 AM

Expand Your Creative Possibilities with Adobe Photoshop Lightroom 2

Join Rick Miller and explore the creative processing tools in Lightroom. Learn how to transform your photographs from good to amazing with global & local edits, white balance, contrast, sharpening, and color enhancements. Delve into selective adjustments to dodge and burn, sharpen, and apply gradient filters to take your images to the next level. Learn how you can create professional and consistent presentations across multiple media including print, web and slideshows.

Rick Miller

10:15 AM

Adobe® Photoshop® CS4 for photography

Learn to create powerful images with the new Adobe® Photoshop® CS4 software. This demonstration will highlight the more intuitive user experience, greater editing freedom, and significant productivity enhancements included in Photoshop® CS4 that help you achieve desired effects more efficiently. Discover the benefits of new features like the Adjustments panel and Masks panel, which provide more intuitive access to the most powerful editing techniques, rewarding your creative experimentation and helping you achieve desired effects more efficiently. See how this new version can help perfect all of your images with enhanced color-correction technology.

Rick Miller

11:30 AM

CGAEA - Graphics SMPO Lunch meeting

1:30 PM

Metal Casting

No description

Martin Koch

2:45 PM

CAD Academy -What's New in SolidWorks 2010

The CAD Academy is a mechanical and architectural STEM based curriculum to teach design, analysis, and documentation. SolidWorks 2010 includes over 200 enhancements including: SustainabilityXpress – to understand environmental impact of design; Rapid Dimension – to quickly and easily create manufacturing drawings; Sheet Metal – now supports multibody parts and export to DXF/DWG; 3D VIA Shape –Free online 3D modeling with commands deform, revolve, offset, mirror, distance, snap, draw on curve surface, and paint.

Dave Alpert

3:45 PM

Design For Engineering Academy – CAD/CAM with certification preparation

The Design For Engineering Academy's two year customizable CAD/CAM curriculum includes: CAMWorks for 2 ½ -3D Mill/ Turn with Automated Feature Recognition, Design For Manufacturing Pro for machinability validation, and SolidWorks Certification Prep bundle that provides tutorials and sample problems to ultimately prepare students for the Certified SolidWorks Associate (CSWA) and Certified SolidWorks Professional (CSWP) exams.

Dave Alpert

Friday

Magnolia

9:00 AM

Threading on the Lathe

A complete course on machining threads on a lathe will be presented. Tooling, measurement equipment, mathematical calculations and verification standards will be taught and explored. Thread instruction media presentations will be reviewed and shown. Attendees will leave with a course of study in hand for use on the next teaching day.

John J. Chocholak

10:15 AM

Shedding Light on Lasers and discovering design shortcuts

This workshop describes how a laser works and the differences between several types of lasers that you may find in everyday life. Learn the differences between raster Vs. Vector and when to apply each. Learn and understand what the laser is actually doing so that best results are always achieved.

Gary Sheriff

11:30 AM

CAT - Auto SMPO

Lunch meeting

1:30 PM

Green Energy and Transportation

Kingsburg High School is developing an IT course incorporating Math and Science . This course exposes students to "Green Technology". Support from Cal Poly San Luis Obispo and Cal State Fresno will draw college bound students to the Engineering field.

A course like this just might be the course you need to develop inter departmental relationships at your school site. Valley Regional Occupation Program supports this course. Most new course offerings come with a big price tag. By using what you already have in the Automotive shop, there is minimum expense to the District.

Curriculum and contacts will be shared so you can catch the dream of offering a "Green Energy" course at your school!

Steve Nagle

2:45 PM

Automotive Engineering

Automotive Engineering is a UC a-g approved as a "g" elective. Let Phil Jelinek show you how this was accomplished and how you can apply for your own approval.

Phillip Jelinek

3:45 PM

Teaching the Physics and Engineering of the Automobile

Let Phil Jelinek show you how he teaches physics and engineering principles of the automobile in ways that the students understand.

Phillip Jelinek

Friday

University

9:00 AM

CSU Industrial Technology university faculty and chairs dialogue.

CSU faculty and chairs and others interested in university level ITE programs will meet to discuss current challenges and solutions.

Seth Bates

10:15 AM

CDTC Board meeting

No Description

Ruskin

11:30 AM

CCEI - Electronics SMPO Meeting

Lunch meeting

1:30 PM

Drafting Round Table

No Description

Ruskin

2:45 PM

EPT Initiation

OBI