

2011 CITEA State Conference

Proposed presentations

Manufacturing

1. **New projects for your welding program** – Veteran welding teachers present new welding projects that you can use in your program. Complete sets of plans, procedures, and a listing of needed equipment will be handed out. Finished projects will be on display for examination.
2. **Teaching basic welding in the high school shop** – This session will explore various methods of introducing first year students to safety and welding practices in the school shop. Set up, adjustment and use of various types of welding equipment will be covered along with handouts of safety tests and general welding tests used in the school shop.
3. **Current cutting tool technology for the machine shop** – Industry reps will present the latest and greatest in cutting tool technology for use on the industrial work place floor and the school machine shop. The application of the latest tool geometry and cutting tool materials will be covered along with application suggestions for the school shop.
4. **The Lathe and the Mill are still a thrill!**- Certification based instruction and project based activities for machine shop teachers will be presented by instructors representing NIMS. A complete exciting course of study will be presented that can be used by instructors for organizing a certification based industry curriculum training students for post secondary training and/or employment.

Wood and Construction

1. **How to teach roof framing in a wood shop** – A veteran construction teacher will take you through the step-by-step procedures of teaching your students how to frame a roof section in your wood shop. You will take home plans, written procedures and a list of tools and materials needed for you to teach this course. Also presented will be current “packaged” programs on the market that you can use to teach roof framing.
2. **Bring recognition and big money into your shop** – Learn how to put together and create media, community involvement, and bring money – big money to your program. Learn how to start a toyshop event that will motivate your students and increase enrollment. This activity will create sales and advertise your shop program far and wide and bring hundreds, even thousands of dollars into your shop program. You will learn about the plans, the sales pitch, the production line and the tricks that will make your program and the construction of toys in your shop a fun and rewarding activity!
3. **Wood Turning on the mini lathe** – The techniques and projects that can add real excitement to your woodworking program! Using the low cost mini lathe, participants will create unique turning projects that can be produced even by the

newest student in the wood program. Project plans, specifications, and equipment requirements will be given to each participant at the end of the presentation.

4. **Make a simple and effective scroll saw marquetry project** for your introductory woods class. Learn how to design marquetry compositions, slice your own veneers, and create projects such as small gift boxes. The use of lasers to cut veneers will also be discussed.

Drafting

1. **ADDA Certification** – Presented will be information on the ADDA certification program for drafting. Learn about how you can qualify your program for ADDA certification and how to accomplish the program alignment with industry standards that will be required.

Auto

1. **The 1928 Model “A” all-electric rolling laboratory** – This is a complete presentation on electric cars for the instructors interested in the history, construction and building of an electric car. If you have ever thought about such a project, for yourself, or for your class, this is the session for you!
2. **Teaching the basics of electricity in an auto program** – If you wish to develop a complete understanding of electricity for auto or construction programs, this is the session for you! You will leave with a complete course of study that you can use to teach basic electricity in your classroom. Your science teacher will be jealous of you and will want to attend your classes with what you will learn.

General

1. **The unbelievable media give away!** – An entire 30 year collection of media presentations owned by a retired CTE instructor will be given away during this session. Industry training tapes and DVDs ranging from the very latest to those of years gone by will be available to all attendees. Historical presentations about aircraft, bridge building, tanks, road building, and much more will be given to participating instructors. This is the stuff you can use for practical application or for the sub on the day you are out sick. Also they are just a fun and educational look at skills that are taught in your program.
2. **How to create and run an advisory committee for your program** – Advisory committees are required for all ROP programs and all CTE programs that are receiving Federal or State government grant money (such as Carl Perkins). This session will cover all of the legal requirements for an advisory committee and teach you how to set up and run a legal advisory committee for your program. Learn why Advisory Committees can SAVE YOUR PROGRAM and help you find needed equipment and supplies.
3. **Grant writing for the CTE instructor** – Grants are now almost the only way an instructor can get large amounts of funding for a CTE program. This session will be taught by a very successful CTE grant writer and CTE teacher who has developed strategies and techniques for writing grants that support CTE programs. Gather resources and pointers to find, develop and receive funding that

can support your programs If you have ever written a grant and been turned down, or if you are afraid to write a grant, this is the session for you!

- 4. Equipment donations, where to get them and how to get them** – Learn how to find the sources of equipment for donation and how to use connections to make donations to your program. Learn the techniques and processes that will enable you to outfit your program with valuable donated equipment and materials from a CTE teacher who has been very successful in this activity for over 30 years.

- 5. Preparing students for engineering studies in college** – Get the real story on what schools of mechanical and manufacturing engineering want high school students to know when they enter college. You will see the curriculum and the labs in which engineering students have to learn and perform the tasks of the trade. Hear what the manufacturing industry desires a “hit the ground running” engineering graduate to know and be able to do on the job. Learn and understand what high school counselors are missing as they guide future engineering students through high school courses of study.