

- 1 **Presenter's Name \*** David Ellis  
**Presenter's Email \*** ellisd86@cod.edu  
**Presenter's Title \*** Chair - Welding Program  
**Presenter's Organization / School \*** College of DuPage  
**Presenter's Address, City, State, Zip Code \*** 425 Fawell Blvd., Glen Ellyn, IL 60134  
**Presentation Title \*** Using the Welding Technician National Core Curriculum  
**Presentation Program Area \*** Other  
**Type of Presentation (see above for details) \*** 30 minutes
- Description \***  
A quick exploration of the open sourced National Standard for Welding Outcomes" funded by the National Science Foundation (NSF). This document can be used to define and organize welding curriculum to meet local market demands by both secondary and post-secondary institutions.  
<https://www.weld-ed.org/NR/rdonlyres/82F5AEE4-EED8-4069-AA51-70DB391EBB6A/11236/WeldingEducationTrainingCenter2.pdf>
- 2 **Presenter's Name \*** Kurt Wolter  
**Presenter's Email \*** kwolter@rthsd212.org
- Presenter's Title \*** Technology Teacher  
**Presenter's Organization / School \*** Rochelle Township High School  
**Presenter's Address, City, State, Zip Code \*** 1401 Flagg Road, Rochelle, IL, 61068  
**Presentation Title \*** Invent At Home  
**Presentation Program Area \*** Drafting & Design Manufacturing  
**Type of Presentation (see above for details) \*** 60 minutes
- Description \***  
A 2 week activity for invention and product design to be done in at-home learning situations. It's not perfect, but it's a good start, and has lots of room for improvement. But the basics of the lesson are here and you will be provided with the electronic file resources to teach this lesson with student who have YouTube access, and can annotate PDF files.  
The lesson introduces and utilizes brainstorming, sketching, product research, and product design and prototyping. All from home!!
- 3 **Presenter's Name \*** Gary Cotie  
**Presenter's Email \*** grcotie@ilstu.edu  
**Presenter's Title \*** METT State Leader  
**Presenter's Organization / School \*** Illinois State University  
**Presenter's Address, City, State, Zip Code \*** West Chicago  
**Presentation Title \*** Breadboarding 101  
**Presentation Program Area \*** Engineering by Design Project Lead the Way  
**Type of Presentation (see above for details) \*** 30 minutes
- Description \***  
This presentation will discuss how to breadboard circuits. It will utilize a normal breadboard and also enhance by using a cloud based tool called tinkerCAD to actual build the circuits with parts and the online breadboarding tool. The demo will talk about using resistors, power supply, digital IC's and other parts that could be taught in an electricity/electronics class or use in an Automotive classroom for series / parallel circuits for Ohms Law principles.
- 4 **Presenter's Name \*** Kyle Thomas  
**Presenter's Email \*** kyltho@d219.org  
**Presenter's Title \*** Teacher  
**Presenter's Organization / School \*** Niles West High School  
**Presenter's Address, City, State, Zip Code \*** Skokie  
**Presentation Title \*** YouTube - Basics of Videos and Playlists  
**Presentation Program Area \*** Other  
**Type of Presentation (see above for details) \*** 30 minutes

**Description \***

This will go over setting up your channel, uploading content, making playlists, and how to manage the visibility of your content. I will also share how this can be used to supplement instruction and also make a shop equipment tutorial website for your students to use.

5	<b>Presenter's Name *</b>	Brad Curry
	<b>Presenter's Email *</b>	<a href="mailto:Curbr@sages.us">Curbr@sages.us</a>
	<b>Presenter's Title *</b>	Industrial Technology Teacher
	<b>Presenter's Organization / School *</b>	Monticello High School
	<b>Presenter's Address, City, State, Zip Code *</b>	104 Salem Road, Monticello, Il. 61856
	<b>Presentation Title *</b>	Going Remotely Medieval with Metal fabrication in the time of Corona
	<b>Presentation Program Area *</b>	Manufacturing
	<b>Type of Presentation (see above for details) *</b>	30 minutes
	<b>Description *</b>	Looking for a metal fabrication project for at home learners when you don't have access to a brake in a metal shop? Do you need a cool project that students can successfully do at home or in the classroom??? Well it's time to get out Thor's Hammer and some sheet metal and pound it out Medieval Style! Brad Curry will demonstrate how to make a metal tool tray at home when you don't have access to a brake in your metal shop. Brad will go over layout and prep of the sheet metal, show how to use angle iron to build a fixture as a way to start bending the metal for the seam, and then finish the project.

6	<b>Presenter's Name *</b>	Chris Merrill
	<b>Presenter's Email *</b>	<a href="mailto:cpmerri@ilstu.edu">cpmerri@ilstu.edu</a>
	<b>Presenter's Title *</b>	Professor, Technology and Engineering Education
	<b>Presenter's Organization / School *</b>	Illinois State Univesity
	<b>Presenter's Address, City, State, Zip Code *</b>	Normal
	<b>Presentation Title *</b>	Epoxy Tables Through the 5E Process
	<b>Presentation Program Area *</b>	Manufacturing Other
	<b>Type of Presentation (see above for details) *</b>	30-60 minutes
	<b>Description *</b>	The use of epoxy in the custom manufacturing of wood products has become popular among professionals, as well as furniture making enthusiasts. However, there is a lot to learn before potentially starting an epoxy project. This presentation will discuss the construction of an epoxy table top through the 5E teaching and learning process.

7	<b>Presenter's Name *</b>	Andrew Jones
	<b>Presenter's Email *</b>	<a href="mailto:andrew.jones@marines.usmc.mil">andrew.jones@marines.usmc.mil</a>
	<b>Presenter's Title *</b>	Marketing and Communications Director
	<b>Presenter's Organization / School *</b>	U.S. Marine Corps - Recruiting Station St. Louis
	<b>Presenter's Address, City, State, Zip Code *</b>	1222 Spruce St. Ste. 10.311, St. Louis, Mo., 63103
	<b>Presentation Title *</b>	Marine Corps Career Opportunities
	<b>Presentation Program Area *</b>	Other
	<b>Type of Presentation (see above for details) *</b>	15 minutes

**Description \*** This presentation will give insight to teachers on career and education paths available through the Marine Corps. Specific topics will include the \$180,000 Marine Option NROTC Scholarship, Officer and Enlisted Programs, Technical Skills, Military Occupational Specialties, career opportunities, and high school student programs.

8 **Presenter's Name \*** Tyler Lago  
**Presenter's Email \*** [tyler.lago@gcu.edu](mailto:tyler.lago@gcu.edu)  
**Presenter's Title \*** Program Development Specialist | Engineering  
**Presenter's Organization / School \*** Grand Canyon University  
**Presenter's Address, City, State, Zip Code \*** 3300 West Camelback Rd. Phoenix, AZ 85017

**Presentation Title \*** Sustaining Student Engagement Through Virtual Lessons - GCU Live Lessons

**Presentation Program Area \*** Drafting & Design  
Engineering by Design  
Manufacturing  
Project Lead the Way

**Type of Presentation (see above for details) \*** 15 minutes

**Description \*** During this presentation, GCU representatives Chloe Zwicker & Tyler Lago will walk through best practices for keeping students engaged while conducting one's classroom in a virtual setting. They will discuss topics such as virtually hands-on lesson planning, utilizing materials commonly found in the home, and best practices for conducting Zoom presentations. Chloe & Tyler will also discuss GCU's Live Lesson initiative to provide classrooms nationwide with free, hands-on masterclasses for their students.

9 **Presenter's Name \*** April Zawlocki  
**Presenter's Email \*** [zawlockia@cod.edu](mailto:zawlockia@cod.edu)  
**Presenter's Title \*** Associate Professor, Education  
**Presenter's Organization / School \*** College of DuPage  
**Presenter's Address, City, State, Zip Code \*** 2393 Iroquois Ln Yorkville, IL 60560

**Presentation Title \*** TEE Pathways

**Presentation Program Area \*** Other

**Type of Presentation (see above for details) \*** 30 minutes

**Description \*** This presentation will familiarize you with pathway options in Illinois for becoming a TEE teacher. Come learn about PD opportunities, mentor/mentee opportunities, and how you can help promote TEE!

10 **Presenter's Email \*** [nicholas.a.pender1@navy.mil](mailto:nicholas.a.pender1@navy.mil)  
**Presenter's Title \*** U.S. Navy Recruiter  
**Presenter's Organization / School \*** United States Navy  
**Presenter's Address, City, State, Zip Code \*** 3142 W White Oaks Dr. Springfield, IL 62704

**Presentation Title \*** Navy Career and Scholarship Opportunities

**Presentation Program Area \*** Other

**Type of Presentation (see above for details) \*** 30 minutes

**Description \*** We will be providing a presentation on Naval Career opportunities to include Naval Nuclear Power. We will also be providing information about the Naval Reserve Officer Training Corps Scholarship (NROTC) program.

11 **Presenter's Name \*** David Resler  
**Presenter's Email \*** [david.b.resler.civ@mail.mil](mailto:david.b.resler.civ@mail.mil)  
**Presenter's Title \*** Education Services Specialist

<b>Presenter's Organization / School *</b>	US Army
<b>Presenter's Address, City, State, Zip Code *</b>	US Army Recruiting, 9152 Kent Ave bldg 401, Indianapolis, IN 46216
<b>Presentation Title *</b>	Trade Careers in the US Army
<b>Presentation Program Area *</b>	Other
<b>Type of Presentation (see above for details) *</b>	15 minutes
<b>Description *</b>	The US Army has over 150+ career fields (Military Occupational Specialty – MOS). This includes job training in common trade skills: Welding, Carpentry, Electrician, Plumbing, just to name a few and includes state-of-the-art, multimillion dollar platforms that help defend the nation. The US Army also helps provide assistance with developing apprentice, journeymen, and other Trade Skill categories. When educators have a better understanding of the level of training and rigor provided by the Army, they can better inform their students on career options. This session will provide a behind the scenes look at not just what it takes to be a Soldier, but what it takes to be an Allied Trade Skill Specialist, Carpentry and Mason Specialist, Interior Electrician, Plumber, Concrete and Asphalt Equipment Operator, just to name a few. This session will provide educators with the information needed to help students who are considering military service as a way forward to make effective career choices. Presentation should run approx. 15-20 min.

12 <b>Presenter's Name *</b>	David Resler
<b>Presenter's Email *</b>	david.b.resler.civ@mail.mil
<b>Presenter's Title *</b>	Education Service Specialist
<b>Presenter's Organization / School *</b>	US Army
<b>Presenter's Address, City, State, Zip Code *</b>	US Army Recruiting, 9152 Kent Ave bldg 401, Indianapolis, IN
<b>Presentation Title *</b>	STEM Careers in the US Army
<b>Presentation Program Area *</b>	Other
<b>Type of Presentation (see above for details) *</b>	15 minutes
<b>Description *</b>	The US Army has over 150+ career fields (Military Occupational Specialty – MOS). This includes job training in advanced technical equipment repair: radar, medical, and communications systems, and includes state-of-the-art, multimillion dollar platforms that help defend the nation. When educators have a better understanding of the level of training and rigor provided by the Army, they can better inform their students on career options. This session will provide a behind the scenes look at not just what it takes to be a Soldier, but what it takes to be a Communications Systems Programmer, Optical Laboratory Specialist, Media Illustrator, Helicopter Repairer, or a Biomedical Equipment Specialist, just to name a few. This session will provide educators with the information needed to help students who are considering military service as a way forward to make informed career choices. Presentation should be approx. 15-20 min in length.







