

CAT FALL 2017 Pasadena City College

Presenter	Title	Description
Michael Gray (Rolling Hills)	Apps & YouTube for the Automotive Classroom	Move over Millennials, Generation Z has arrived. Also referred to as Gen Z, iGen, or Centennials, these students use Apps and YouTube extensively. They use Apps and YouTube for product reviews, entertainment, how-to videos, and social networking. Let's introduce them to effective and engaging Apps and YouTube Channels that also teach about Automotive Technology. This seminar will give an overview of many Apps and YouTube Channels that automotive instructors use to enhance instruction.
Michael Gray (Rolling Hills)	Automotive Maintenance and Light Repair: A Guide to Developing a First Course in the NATEF Model	The NATEF Automobile Accreditation Model provides opportunities for automotive programs to address the growing need of entry-level service technicians with foundational knowledge. What base knowledge and understanding do your students have when they start your program? What could a first course look like? This seminar will give an overview of the NATEF model and will present a possible introductory course that correlates to entry-level NATEF tasks while also offering a structure that attracts non-traditional students.
Phillip Jelinek (Retired)	A Different Approach to Teaching Auto Shop	Are your students enthusiastic about Auto Shop? Do they look forward to the exciting aspects of the automobile? Do they wonder in AWE, the complexity of the many systems that make up an automobile? Do you ever have difficulty holding their interest? If they don't, in any/or all of these things, let Phil Jelinek demonstrate many time proven ways that will encourage students to be excited about auto and look forward to what comes next.
Jim Halderman (Pearson Publishing)	Free Instructor Resources	Looking for resources to help you teach? Also they need to be free. If this is what you are looking for, then this presentation is for you. Included in this fast-paced presentation are the following free resources without a login or password needed so students can have access, even on their smart phones. Included are: Task Sheets, Videos, Animations, Lesson plans, Power Points, TSB's, Wiring Diagram, Lug Nut Chart
John Chochlak (Retired)	Using a VOAM and math to calculate volts/ohms/amps in working automotive circuits	How to use a volt/ohm/amp meter to measure values in a working automotive electrical circuit. Using digital and analog meters for this purpose will be explored. Advantages of using battery vs solar powered VOAMS will be covered. Basic and advanced MATH solutions for finding circuit operating values will be taught. Finding solutions in series, parallel, and s-p circuits will also be explored. Differences between measured and calculated values will be presented.

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Donald Schumacher (Yuba College)	Automotive Detailing Boot Camp	If your car has paint on it chances are it needs to be polished. Trying to hand polish modern day vehicles with clear coat finishes is just not effective. This class will focus on Dual Action and Rotary Style Polishers and their proper use. Other topics that will be covered are how to properly wash your car and how to machine apply paste wax. Professional detailing products and waxes are also covered.
Larry Bjurlin (Lab Corp)	Hybrid Technology by Lucas Nuelle	Topics: Multiple types and operation of hybrid electric vehicles. Motor/generator operation with experiments and animations. Battery management systems. Drive systems. Power electronics including inverters, DC to AC conversion and safe handling of HV systems. ICE system. Instructor fault insertion methods.
Rod Boyes (Today's Class)	Workplace Readiness	Young people today (teens) do not have access to jobs so as to gain experience in the "working world." Workplace Readiness material includes "Fundamentals" (reading/writing skills, speaking/listening, personal finance); "Professionalism" (work ethic, interpersonal skills, self presentation & positive attitude, Image; and "Business Basics" (problem solving, computer applications, entrepreneurship, understanding the BIG picture). The challenge is to enable Teens to look long run to establish goals and identify the steps to get there.
Sean Lannoo (Continental Auto Systems)	TPMS-10 years....are you REDI for the Future?	Curriculum covers: Test before you touch, how the systems operate, proper installation, system identification, differing systems and sensor types. Also cover vital TPMS service tools and functions, correct maintenance and service, relearn procedure, legislature and how to bolster preventative maintenance with system features.
Bob Azadi (Fram Group)	Filtration Facts Changes in filters and Fluids	An Overview of oil, air and cabin filtration. Emphasis on oil filtration. Filter construction, various filter element materials, testing and rating. Selecting the correct type of filter appropriate to the oil used. Brief overview of changes in engine oils and requirement by auto manufacturers.

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Andrew Ouimet (Cengage)	Cengage's Automotive Theory Simulation and Your Classroom	Join Cengage and learn about our all-new Automotive Theory simulations that live in MindTap! Learn the basics and how you can incorporate these innovative simulations into your curriculum with MindTap!
Andrew Rezin (Columbus State College)	Leadership: An Essential Skillset for Students and Teachers Alike	Leadership is a very important, yet often understood, skill that we all need to understand to become more effective in our role in life. That is true for your students and for you. LWe all lead in some way, whether or not we admit it. We all should aspire to provide leadership in those areas where we have a passion and commitment. Let us take a deeper look at this very important trait.
Scott Brown (iATN)	Digital Tools for Automotive Professionals	Learn how to use digital tools to bring a higher level of professionalism to your personal brand. How to effectively use a camera/cell phone to capture data. How to quickly capture, annotate and store data displayed from any PC based application including scan tools, scopes, and more. Learn how specific communication applications are used in workshops today. Help students create a better portfolio.
Darcy Wedel (Electude)	Introducing Students to CAN Bus	Get on the BUS! Discover ways to help students gain knowledge of CAN bus systems, as well as develop critical thinking and problem solving skills through the use of mind map excercises, simulations and interactive animations.
Rob Munro (AERA)	Cylinder Head and Engine Machinist Certification	De Anza College Auto Tech Instructor Dave Capitolo will go into to detail on how you can save both preparation and class room time by using AERA's Online Training Program. Dave will go into detail on how he gets his students engaged and why he has such a good student success rate in all of his engine classes.
Robert Wilson (CA Dept. Ed.)	Perkins Funding	Update on Perkins Funding
Dick Krieger (ConsuLab)	Electrical Diagnosing Strategies for Today's Vehicles	Modern vehicles bring a new set of required diagnostic skills and often new equipment to accomplish them. This class presents updated procedures and new information on relays, new test lights, voltage drop and parasitic draw testing, and new diagnostic equipment now available. Come see what is new in diagnostic procedures for these common components and tests. This class will give you teaching resources to share with your students. A comprehensive handout will be included.

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Mark Hawkins (Redline Detection)	Diagnosing Faults with New High-Pressure Technology	If you thought smoke machine technology was just for EVAP leak finding, you're years behind the OEM's. This course will bring you up to speed with the latest leak finding technology using visible vapor to reliably detect low and high pressure leaks, pinpoint its exact location, and precisely identify failing components. Allowing you to be able to locate the root cause of issues.
Steve Caruso (Gustafson Brothers)	Understanding Air Fuel Ratio Imbalance Monitor	This presentation will look at the two different methods currently being used. From virtual oxygen sensors to determining the torque per ignition event, each method requires a different diagnostic strategy as well as superb diagnostic skills and knowledge. Following the Manufacturer's diagnostic trouble charts may not be enough, a thorough understanding of the operating strategy will save valuable diagnostic time, not mention the time and money it takes to replace unnecessary parts.
Stephen Pulcheon (Snap-On)	Snap-On Industrial	A look at the depth and breath at Snap-on's Diagnostic platforms, including hardware, software, capabilities and information systems.
Trish Serratore (NATEF/ASE)	NATEF/ASE/AYES	Big name changes coming to NATEF and AYES. Will discuss in addition to changes and updates to the accreditation process and ASE Student Certification.
Steve Zack (Bosch)	Body Shop Scan Tool Diagnostic	This class is designed as an overview for the Body Shop instructor to learn how to test and reset various body shop components
Steve Zack (Bosch)	ADAS Advanced Driver Assist System Camera Calibration	Learn how ADAS systems function, how the camera functions and how to calibrate the camera
Kevin Murphy (CDX)	Strategies for Electronic Body Control Diagnosis	The class focuses on three key outcomes: diagnose multiplex controls; identify distinct strategies; and transfer to learning activities. Diagnosing electronic controls has changed, as many outputs activations are conditional responses from network controllers. This class will have a practical approach. Discussion of setup, lab procedure, and evaluation technique will be included.

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Kevin Murphy (CDX)	Practical Approach for Outcomes Based Education – for the novice instructor	This course is a primer on outcomes based education. Participants in this course should be new or novice instructors. The course will discuss identifying and communicating learning objectives, and building learning activities. Participant will design assessments that prove a learner’s competence. The course introduces basic steps of competency focused education.
Bryan Perrin (ATG)	Advanced Valve Timing & Engine Mechanical Diagnostics	How do you know if it's a mechanical or external fault? We will show you have to leverage the scan tool and volumetric efficiency tests to help isolate the cause. Included are real case studies and how to use an in cylinder pressure transducer to prove a camshaft timing fault or not.
Stan Moczulski (Today's Class)	Connections with Employers	Presentation will highlight the needs of business and industry regarding skills needed for entry into the workforce. Discussed will be workplace readiness, social media and how it can make or break an interview, training opportunities that are available to help teachers provide the skills necessary for students to prepare for, land and keep the job. This is one of the most needed but missed parts of preparing students for the world of careers!
Thomas Broxholm (Skyline College)	Introduction to Power Point	This hands-on class will help anyone who wishes to become more proficient and effective with using PowerPoint to enhance their lectures. Page setup, images, sound, motion, animation and best practices will be the focus of this 2.5 hour hands-on workshop. This will be held in a computer lab but feel free to bring your own laptop or flash drive to save work.
Breanna Anderson (BMW)	BMW STEP Program	I will be presenting the changes to the BMW STEP programs with details on the new format of ASE Professional Test inclusion!
Mark Weiss (L J Create)	Helping you meet the needs of NATEF Certification	Join a workshop focused on meeting NATEF and Academic Standards. Inspired by NATEF task and learning outcomes we will show you how to equip your students with the skills, knowledge and experience they need to become successful Auto Technicians . We will explore new ways you can customize and create a learning experience that follows the NATEF framework at every level: MLR, AST and MAST. All attendees will leave with access to this valuable resource.

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Wendy Lucko	Building a Better Advisory	In this roundtable discussion with ASCCA Chapter 5 members, and Manufacturer input you will hear first hand what it takes to make a strong Advisory Board. This is one of the most essential parts of building a strong program together with curriculum the 'skys the limit'. Want your program to grow and hitting a wall.....come ask questions and get ideas.
Mark Weiss (L J Create)	Hybrid and Electric Vehicle Technology	Join a workshop focused on a new and safe way to engage your students in Hybrid Electric Vehicle Technology. We will show a resource that provides students and instructors with the opportunity to demonstrate, investigate and fault find a simulation of a Hybrid Vehicle Electrical system. To help facilitate the development of techniques in diagnostic and fault finding this resource includes a range of fault insertion options to simulate typical real world systems malfunctions .
Rocky Carlisle (Air Quality Engineer II)	BAR	Join a workshop focused on a new and safe way to engage your students in Hybrid Electric Vehicle Technology. We will show a resource that provides students and instructors with the opportunity to demonstrate, investigate and fault find a simulation of a Hybrid Vehicle Electrical system. To help facilitate the development of techniques in diagnostic and fault finding this resource includes a range of fault insertion options to simulate typical real world systems malfunctions .