



**The Embassy Suites
Concord, NC
July 25 — July 29, 2016**

Program of Events

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Agenda & Program Descriptions

Monday, July 25, 2016

1:00 pm — 8:00 pm

Registration

Location: Concord Hallway

6:00 pm — 8:00 pm

Welcome Reception

Location: Concord A - D

Tuesday, July 26, 2016

6:00 am — 8:00 am

Breakfast

Location: Lobby Atrium

8:00 am — 8:30 am

Kickoff Meeting

Tim Zilke, ASE President & CEO

Trish Serratore, NATEF/AYES President

ASE Industry Education Alliance

Welcome to Concord, NC and the 3rd annual ASE Industry Education Alliance Instructor Training Conference.

Location: Concord E & F

Automotive Education Development Sessions

You may choose one session to attend per time block. Space availability is first come, first served. Please be sure to get an attendance sticker at the end of each class to put on the back of your certificate.

8:30 am — 9:30 am

New Instructor Guide

Jim Anderson, Instructor, Greenville High School

Darrell Parks, NATEF Educational Consultant

This session will review the new online NATEF Instructor Guide produced through a grant from Ingersoll Rand. The Guide is designed to help working technicians understand what is involved in being an automobile instructor. The material covers lesson planning, delivery, lab management, assessment, outreach and resources. The Guide is also helpful to instructors relatively new on the job as well as those who have been teaching for a number of years.

Location: Concord J

NATEF Basics

Marvin Linville, Alliance Manager, ASE Industry Education Alliance

This class will cover several of the NATEF Standards. The format will be interactive with positive outcomes. Come to the class willing to participate and we'll go over as much as we can in the short time period. If you have gone through NATEF accreditation, this is your opportunity for positive input. The idea is to have people leave with an understanding of where to collect answers to the Standards documentation requirements.

Location: Concord I

ASE Student Career Link

Trish Serratore, President, NATEF/AYES

Christen Battaglia, Director, Partner Engagement, ASE//NATEF/AYES

This session will review the new ASE Student Career Link, now available for instructors to use in the classroom. It is an online, video interview platform done on a smart phone. The platform allows students to upload a profile and film themselves answering several questions. They may do this any number of times until they are satisfied with the result. Their instructor will review and comment. When the profile and video portion are complete and vetted, the instructor uploads them to the ASE Student Career Link site. At that time, our industry partners may view the students and decide to proceed with an interview.

Location: Concord A

9:30 am — 10:30 am

Project Based Learning

Jim Anderson, Instructor, Greenville High School

Jim Halderman, Author, jameshalderman.com

This fast-paced presentation showcases what is being done in a small town in rural Ohio to make their automotive department on the secondary level a first-class learning environment. The presentation includes:

- Why projects?
- How to get the community involved.
- How to get students to buy in.
- How to get the academic instructors involved.
- Costs.
- Benefits to the program and the school.
- How to get started and get donations and sponsors.
- How to get the academic faculty involved.
- Program results.
- Student results.
- Plant tours related to the project each year.

Location: Concord J

AYES

Beti Yoder, Alliance Manager, ASE Industry Education Alliance

5 W's of AYES: Who, What, Where, Why and When

Learn WHO should become involved with AYES, WHAT is involved to get started and to deliver the AYES model, WHERE AYES can be utilized, WHY your school should participate with AYES and WHEN to do each phase of AYES from the start.

Location: Concord I

Successfully Establish an Effective CTE Advisory Committee

George Arrants, Director, Training and Recruitment

WheelTime Network

Useful tips on how to select and recruit members who will be most effective for your programs. Arrange meetings that will have the most value for you, your students and industry. How can you provide value to your board members? What should you consider when planning meetings? Examples shown of how an effective advisory board benefits students, programs, community and local industry.

Location: Concord A

10:30 am — 11:00 am

Break

Location: Concord Hallway

11:00 am — 12:30 pm

Volumetric Efficiency

Steven Zack, Technical Instructor

Bosch

This session will develop the technician's skill for testing engine performance with a scan tool using Datastream. The class will focus on Volumetric Efficiency using the calculator and Datastream to determine the cause of the driveability complaint. When the test results and the repair information point the technician to test a component, they will be better equipped to perform those tests effectively. The course will improve the technician's diagnostic efficiency.

Topics Covered in Class:

- VE Calculator
- VE Diagnostics
- MAP Test
- MAF Test
- Fuel Trim Tests
- H02S Test
- AFR Test
- Catalytic Converter Test

Location: Concord J

Army Man I & II Basic Electrical Training

Craig Van Batenburg, CEO

ACDC

This class will present how GDI operates compared to PFI. System design, major component operation, maintenance, diagnosis and service will be discussed. The premise of this course is designed to help instructors teach GDI to their students. A color course handout is included.

Location: Concord I

The Right Tool for the Job

Randy Pindor, EVP Marketing

Anna Matisak, Presenter

B'laster

This seminar explains the appropriate use of penetrants, lubricants and other formulas to getting the repair done in and out of the classroom. It includes detailed explanations of the importance of using the correct tool for the job. It will also discuss Safety Data Sheets, specifically the importance of SDS, how to read an SDS and how to use the Pro-Tip video *How To Read an SDS* in the classroom.

Location: Concord A

TPMS: How To Achieve Operational Excellence

Troy Roach, Technical Training & Support Representative

Schrader Performance Sensors

In this 360° TPMS training session, you will learn all you need to know about performing TPMS services efficiently, correctly and safely. We will teach everything from performing relearn procedures, to working with service kits, developing a standard operating procedure, identifying sensor types and beyond.

Location: Concord B

Understanding Diesel Emissions

Sean Bennett, Author

Cengage Learning

This session will focus on understanding and working with light, medium and heavy duty diesel engine emissions hardware and management technology.

Location: Concord C & D

Electric Drive Technology for Automotive Students

Bill O'Neill, Technical Training Manager

Electude USA LLC

The Electric Drive Curriculum consists of a complete range of interactive lessons. It is designed specifically for today's generation of automotive learners. They will develop a comprehensive understanding of the terms, components and global operation of both hybrid and electric vehicles.

Location: Concord G & H

Electrical and Communication Diagnostics

Keith Littleton, Program Coordinator Training and Diagnostics

WheelTime Network

This session will demonstrate many diagnostic features that HD scan tool offers, such as customization of menus, step-by-step repair information, wiring diagrams, component locator, report snapshot feature, bidirectional communication, parameter graphing, health check of all modules and communication, monitoring and manipulation of vehicle sensor data. Repair techniques focused on electrical/electronic circuitry using an HD scan tool unit and a DVOM, will also be covered.

Location: Carolina

Teaching Techniques

John Kershaw, Founder

C-Tec

This workshop will review and discuss the preferred methods and techniques of teaching; those matters dealing with "teaching as a performing art" and the actual teaching-learning process. This workshop is intended for instructors needing a review of those factors that influence professional instruction and student learning. We will cover performance objectives and the development of affective assessments and the art of oral questions.

Location: Harrisburg

12:30 pm — 1:30 pm

Lunch

Location: Concord E & F

1:30 pm — 3:00 pm

AC Compressor Replacement & Updates

Keith Glasgow, Regional Training Manager
Raytheon Professional Services / ACDelco

This course covers procedures necessary to gain long term reliability from new replacement AC Compressors. Also included are updated system components and refrigerants.

Location: Concord J

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Location: Concord A

Teaching Tires and Wheels

Jim Halderman, Author, jameshalderman.com

This fast paced presentation will showcase not only how tires are made today by machine, but will also answer the following questions:

1. What is the correct inflation pressure?
2. What is considered to be the minimum tread depth?
3. Why must winter tires be used only below 45 degrees?
4. What do those painted dots on the sidewall mean?
5. What do "MO", "TPC", "NO" and a star on the sidewall mean?
6. What does this size mean? P245/680R 460 A
7. What size tire should be used on a 7-inch wide rim?
8. What is a "hub centric ring"?
9. What are plastic wheel weights?
10. When should you use a pin plate when balancing wheels?

Location: Concord B

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Location: Concord G & H

PMI

David Kegley, Manager Maintenance Learning and Development
Ryder System, Inc

This session reinforces the importance of a Preventative Maintenance and Inspection (PMI) program. An emphasis will be placed on understanding how a well-implemented program can help fleets track and work towards preventing out-of-service occurrences and control costs associated with managing a fleet. Federal annual inspections, which are critical for meeting the Federal Motor Carrier Safety (FMCSA) requirements, will also be covered in detail.

Location: Carolina

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Location: Harrisburg

3:00 pm — 3:30 pm

Break

Location: Concord Hallway

3:30 pm — 5:00 pm

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Schrader Performance Sensors

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Location: Concord I

“Be System Smart” I60R90

Bobby Bassett, Manager of Training
Gates Corporation

New recommended replacement intervals for the serpentine, cooling and timing systems will teach you to become System Smart! Begin inspections at 60,000 miles with re-inspection or replacement of critical components by 90,000 miles.

During this session you will learn:

- Why inspection should begin around 60,000 miles with re-inspection at 90,000.
- How the customer not the technician drives the repair process.
- Why getting to the Root Cause of the repair in the beginning will ultimately reduce warranties and comebacks.
- How this information ties into the AASA survey that indicates 97.5% of all warranties are preventable!
- Why this information is fully transferable to any “system” in today’s automobile.
- Why we can’t do it like we used to!

Location: Concord A

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Location: Concord B

Automotive Collision Damage Analysis

David Scribner, Technical Director-Americas
Car-O-Liner/TruckCam/Josam

This session is a condensed version of a 4-hour "Damage Analysis" course which covers fundamentals and risks associated with not uncovering all the damage in advance of writing the estimate and the consequences of leaving a millimeter off the table.

Topics include:

- Vehicle Design and Construction
- Collision Damage Characteristics
- Energy Management
- Data Sheets
- Vehicle Clamping
- Measuring Upper Body vs. Lower Body

Location: Concord C & D

PMI

David Kegley, Manager Maintenance Learning and Development
Ryder Systems, Inc

This session will be medium/heavy duty truck focused.

Location: Concord G & H

Teaching Electricity in a New Century

Dan Sullivan, Sullivan Training Systems
Brighter Ideas

Teaching electricity to tech students has always been difficult and frustrating. Deciding what must be taught and how in the face of ever-increasing technology is often complicated. This session will discuss methods of teaching, the role of industry and the importance of understanding the nature of the shop environments.

Location: Carolina

4:00 pm — 8:00 pm

Alliance Resource Room

Do you have questions for ASE, NATEF or AYES? Come meet with the staff to have a one-on-one conversation to resolve any questions you may have pertaining to you, your school or your situation.

Location: Kitty Hawk

Wednesday, July 27, 2016

6:00 am — 8:00 am

Breakfast
Location: Lobby Atrium

8:00 am — 10:00 am

6.7 Power Stroke Current Issues

Tom Rayk, Region Manager

NAPA

The 6.7 Power Stroke is the best selling light truck diesel engine in the U.S. This program will cover real world problems occurring on this platform and how to avoid some of these concerns. A partial list of items covered :

- Fuel system issues
- EGR issues
- SCR concerns
- Coolant service
- No Start
- Charging issues

Location: Concord J

“Hands-On” Electrical/Electronic Diagnostics in the Classroom

Lyle Taylor, Instructor/Program Developer

Brian Jenkins, Service Technician

ATech

The Transportation industry is constantly changing, in regards to electrical/electronic systems. Exploring the need for “Structured Skilled Development” can still be one way to approach training, by building from fact to understanding, working from simple to complex, learning through discovery, and then transferring knowledge to problem solving. While taking this approach we will explore teaching methods to incorporate more hands-on activities in classroom, using computer based training and a number of electrical trainers with hands-on activities. Focusing on teaching from basic electrical to advanced electrical diagnostics and troubleshooting systems while in the classroom.

Location: Concord I

Introduction to the DSO (Digital Storage Oscilloscope)

Dick Krieger, Educational Consultant

ConsuLab

This seminar will present basic information on the automotive oscilloscope (DSO) including:

- Limitations of other diagnostic test equipment (test lights, logic probes, DMMs, graphing meters and scan tools).
- Why you should learn how to use an oscilloscope.
- How to set up and use a scope using controls and adjustments.
- Entry level scope pattern set up and interpretation.

Attendees do not need to have any prior experience with scopes to attend this class. Class is intended to present information and reasons why the oscilloscope is becoming almost an essential and necessary diagnostic tool. Attendees should bring their laptop to class. There will be some hands-on work in class with oscilloscopes.

Location: Concord A

CAN Bus Simplified

Skip Saurman, Consultant & Trainer

Megatech

In 2008, the Society of Automotive Engineers (SAE) required CAN Bus communications protocol for 100% of new vehicles sold in the United States. It should be easy to locate information and vehicles to train on. Find out how easy it can be utilizing the concept of theory/practice/application in this hands-on session.

Location: Concord B

GDI: The Analytic Test Drive

Randy Briggs, Research and Development Center Manager

CARQUEST Technical Institute

A test drive is not intended to isolate faults which may be causing a symptom or concern. The purpose of an analytic test drive is simply to gather information. Then, once the information you have gathered has been analyzed, you can determine the proper test or tests to perform in order to narrow down the problem to a vehicle system or subsystem and eventually diagnose the root cause of a problem accurately. This class will examine several examples of captured scan data from GDI vehicles. This data will quickly assess the condition of the engine management system, verify correct operation, or find clues that will direct intrusive pinpoint tests efficiently. Whether the problem is DTC-driven or symptom-driven, a repeatable test drive cycle will determine if the root cause is air (VE) related, fuel related, or adaptive related.

Location: Concord C & D

iATN in the Classroom

Scott Brown, President

iATN

Discover how iATN can benefit your school through two educator programs available today. Extensive live use of the site will demonstrate how to generate student referral codes, how to use the system to source for real-time broken vehicles, and how to follow the repair process. Additionally, advanced techniques on how to search the Knowledge Base, which encompasses millions of assets spanning the TechHelp system, Waveform library and Discussion Forums.

Location: Concord G & H

A Framework for Wiring Diagram Analysis

Jorge Menchu, Owner

AESwave.com

This course will contain finely tuned exercises and discussions of wiring diagrams in which we will focus on exposing mental tools, behaviors and techniques for your students to master wiring diagrams and for reaching their full learning potential.

Location: Carolina

WKR01 Hazardous Training Materials, Personal Safety and Refinish Safety

Dean Aycoth, I-CAR Instructor
I-CAR

Session will cover:

- Incorporate basic procedures for safety and preventive measures in a shop environment
- Understand the importance of labeling and when workplace labeling is required
- Identify hazardous material exposures and learn storage regulations
- Understand how to use personal protective equipment and emergency handling equipment
- Identify hazardous waste types and waste regulations
- Select and use proper personal protective equipment
- Identify proper storage requirements for hazardous waste materials

Location: Kannapolis A

ASE Certifications and Mentoring

Andrew Dilmuth, Fleet Program Maintenance Advisor
FedEx Freight

The ASE Certifications along with Mentoring, Coaching and Leadership Development are shaping the future of the technician industry. Learn how FedEx incorporates these into our training.

Location: Kannapolis B

10:00 am — 10:30 am

Break

Location: Concord Hallway

10:30 am — 12:00 pm

Nissan EV Technologies

James Smith, Senior Planner, Technical Training Design
Nissan

This session will provide an overview of the High Voltage powertrain and components used in the Nissan LEAF, including the: High Voltage Battery, Power Delivery Module, Traction Motor Inverter and Traction Motor.

Location: Concord J

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Lyle Taylor, Instructor/Program Developer
Brian Jenkins, Service Technician
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Location: Concord I

Embracing the Benefits of Online Learning

Sandy Clark, Editorial Director

Goodheart-Willcox

Learn more about exciting online learning technology as it applies to automotive education. The methods of integrating technology into an existing class or program will be discussed and tips from educators using online will be shared. The audience will be able to see the benefits of an online learning environment and how resources can be used to support ASE Certification preparation and NATEF standards.

Location: Concord A

The Diagnostic Process: Historical and Modern Perspectives

Stephen Pulcheon, Diagnostics Specialist

Snap-on Industrial

Reviewing the evolution of the Diagnostic Process and developing a SOP.

Location: Concord B

New Model NSX Technical Overview

Brian Culp, Instructor

American Honda Motor Company

New Model NSX Technical Overview

Location: Concord C & D

Volkswagen Air Conditioning Systems - Past, Present, and the Future

Jason Ross, Curriculum Designer

VW

A discussion based around Air Conditioning and Climate Control systems used in Volkswagen vehicles from times past into the most recent technologies employed in modern vehicles. This will provide participants with the basic principles of the following subjects:

- Heat Transfer from and to vehicle interiors
- Bridging the gap between heat transfer and air distribution
- Understanding the refrigerant circle
- The Evolution of AC compressors
- The effect of the Kyoto Protocol on modern Air Conditioning systems
- Defining halogenated refrigerants for dummies
- Dispelling myths surrounding R1234yf
- An introduction to R1234yf (tetrafluorpropene)
- Comparison of the characteristics of R134a vs. R1234yf
- Increasing efficiency through heat exchangers
- Air Conditioning systems cooperating with other vehicle systems to aid the driver
- Air Conditioning and heating in electrified vehicles

While the subject matter refers to Volkswagen Air Conditioning systems, the basic principles and subjects covered can be applied to help understand the methods used by other manufacturers utilizing similar components and refrigerants.

Location: Concord G & H

Ford Technology Overview

Alan Knitter, Field Service Engineer

Ford Motor Co.

This session will provide an overview on several Ford Motor Company systems, including CAN Networks, Gas Drivability and Diesel Engines.

Location: Carolina

WKR01 Hazardous Training Materials, Personal Safety and Refinish Safety

Dean Aycoth, ICAR Instructor

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Location: Kannapolis A

Wheel End Installation, Inspection, and Maintenance for Heavy Duty Truck and Trailer

Roger Maye, National Service Manager

ConMet

This class will cover identification, installation, inspection, repair and maintenance requirements for the various types of wheel ends found on Class 8 trucks and trailers. We will also cover component failure analysis.

Location: Kannapolis B

12:00 pm — 1:00 pm

Lunch

Location: Concord E & F

1:00 pm — 2:30 pm

Diesel Exhaust Aftertreatment Systems for the Gasoline Instructor

Curt Ward, Author/Instructor

Pearson Education/Joliet Junior College

This course will cover the operation of the diesel exhaust aftertreatment systems found on today's light duty diesel vehicles. Comparisons will be made to gasoline engine systems for ease of understanding. In addition to the operation and diagnosis of each part of the system, the maintenance of the diesel exhaust system will be covered. The presentation will also include case studies from actual vehicles.

Location: Concord J

Educating Torque

Jim Mueller, General Manager

Justin Franchuk, Office Manager

Team Torque

Those involved in the education of use and management of torque tools will benefit from this presentation and discussion. Topics to be covered include selection and application of torque tools, preventive maintenance and safety in tool management, requirements for calibration, and known successes in associating torque processes into quality management systems.

Location: Concord I

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Location: Carolina

ALI01 Aluminum Intensive Vehicle Repairs

Dean Aycoth, I-CAR Instructor
I-CAR

This 2-part session will cover:

- Understanding the characteristics and best practices for working with aluminum in structural applications
- Identifying uses of castings and repair or replace considerations
- Causes of and methods to prevent galvanic corrosion
- Straightening considerations, including work hardening and workability of aluminum
- Working with rivets in the collision repair process
- Simulating aluminum repair decisions through small group activities and props

Location: Kannapolis A

Electrical Diagnostics In Five Minutes or Less

Homer Hogg, Manager of Technical Development
Travel Centers of America

Electrical diagnostics: difficult to learn and difficult to teach. And so important to do timely and effectively. This session will take the mystery out of how to teach this critical task, so a technician can troubleshoot an electrical problem in five minutes or less!

Location: Kannapolis B

2:30 pm — 3:00 pm

Break

Location: Concord Hallway

3:00 pm — 5:00 pm

6.7 Power Stroke Current Issues

Tom Rayk, Region Manager
NAPA

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Location: Concord I

Teaching to the YouTube Audience

Tim Dwyer, Educational Consultant
ConsuLab

Are you using videos in your automotive classroom to engage students? Are you purchasing pre-made videos, searching YouTube or maybe making your own? Have you ever wanted to 'Flip' your classroom but haven't found the right kind of content for your class yet? In this session, you will gain insight into making your own classroom videos, learn what cameras and technology are best, and which video editing software to use. Come prepared to share your own experiences and see how to have fun on this learning path! We will then all participate in an activity to demonstrate how an effective use of videos in the classroom can really lead to an amazing level of student engagement. You will take away from this session many ideas and techniques that you can use immediately back in your classroom.

Location: Concord A

Brake Diagnostics and Service

Richard Kearns, Master Trainer
Federal-Mogul Motorparts

This workshop is designed to enhance the technician's ability to properly diagnose and service automotive and light truck braking systems. We will define the function and diagnostic procedures for brake system components and discuss friction and hydraulic theory, operation and bleeding.

Objectives:

- Interpret the proper friction material per vehicle application.
- Apply hydraulic theory and use recommended brake service procedures to reduce diagnostic time and eliminate costly misdiagnosis.
- Identify measurements of run-out and parallelism.
- Discuss hydraulic and friction failures on passenger cars and light trucks.
- Discuss components and operation of electronic parking brake systems.

Location: Concord B

Audi New Technologies and Innovative Thermal Management

Jim Doyle, Service Instructor
Audi Academy

This session will cover the innovations of the "B" cycle engine coming to Audi this year as well as other new technologies Audi has introduced.

Location: Concord C & D

Wheel Alignment and Advanced Driver Assist System

David Fox, Regional Training Instructor
Hunter Engineering Co.

This session will focus on performing wheel alignments on vehicles equipped with Advanced Driver Assist Systems (ADAS). Description and function of different driver assistance systems.

Location: Concord G & H

The Mechanics of All Things Waveforms

Jorge Menchu, Owner

AESwave.com

This session will cover teaching technicians, instructors, educators and students how to get started with their lab scopes and waveform analysis.

- Making the complex stuff simple.
- Making the connections: How to use the lab scope as a diagnostic tool and more important a learning tool.
- A framework for basic to high-level waveform analysis.

Location: Carolina

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- Working with rivets in the collision repair process
- Simulating aluminum repair decisions through small group activities and props

Location: Kannapolis A

Session title to be announced

Homer Hogg, Manager of Technical Development

Travel Centers of America

A second session will be offered by Homer Hogg with Travel Centers of America.

Location: Kannapolis B

5:30 pm — 9:00 pm

Company Expo
Location: Concord E

Thursday, July 28, 2016

6:00 am — 8:00 am

Breakfast
Location: Lobby Atrium

8:00 am — 10:00 am

Subaru Eyesight Drivers Assist: Features, Function and Maintenance

Terry Boettger, Technical Education Manager

Subaru of America

This course covers the operation of Eyesight Driver Assist System and the many features that it performs. Also covered is the explanation of how this system is tied into the vehicle in order to perform its many functions. Diagnostics and maintenance will also be covered using Subaru Select Monitor III along with setup and calibration of Eyesight System.

Location: Concord J

ZF 8HP Transmission Operation and Diagnostics

Dirk Fuchs, Technical Training Engineer

ZF Services

- ZF 8HP Operation and Diagnostics
- Torque Converter Operation and Diagnosis
- Oil change service
- Transmission diagnostics
- Common Problems and Solutions
- Adaption

Location: Concord I

“Be System Smart” I60R90

Bobby Bassett, Manager of Training

Gates Corporation

New recommended replacement intervals for the serpentine, cooling and timing systems will teach you to become System Smart! Begin inspections at 60,000 miles with re-inspection or replacement of critical components by 90,000 miles.

During this session you will learn:

- Why inspection should begin around 60,000 miles with re-inspection at 90,000.
- How the customer not the technician drives the repair process.
- Why getting to the Root Cause of the repair in the beginning will ultimately reduce warranties and comebacks.
- How this information ties into the AASA survey that indicates 97.5% of all warranties are preventable!
- Why this information is fully transferable to any “system” in today’s automobile.
- Why we can’t do it like we used to!

Location: Concord A

Brake Diagnostics and Service

Richard Kearns, Master Trainer
Federal-Mogul Motorparts

This workshop is designed to enhance the technician's ability to properly diagnose and service automotive and light truck braking systems. We will define the function and diagnostic procedures for brake system components and discuss friction and hydraulic theory, operation and bleeding.

Objectives:

- Interpret the proper friction material per vehicle application.
- Apply hydraulic theory and use recommended brake service procedures to reduce diagnostic time and eliminate costly misdiagnosis.
- Identify measurements of run-out and parallelism.
- Discuss hydraulic and friction failures on passenger cars and light trucks.
- Discuss components and operation of electronic parking brake systems.

Location: Concord B

Audi New Technologies and Innovative Thermal Management

James Doyle, Service Instructor
Audi of America

This session will cover Audi's innovative thermal management and how it can improve emissions and fuel economy.

Location: Concord C & D

Data Communications, Networking and the Interaction with Vehicle Infotainment

Randy Hargette, Instructor
GMSTC/Raytheon

This session will cover information about General Motors vehicle Data and Networking. The different types of communication protocols found on GM vehicles will be discussed and the procedure for their diagnosis. The vehicles Infotainment networks operation will be discussed, their relationship to the main vehicle's networks and diagnostic procedures. Infotainment system connection to outside media will also be discussed.

Location: Concord G & H

Commercial Vehicle Emissions and Energy Efficient Technologies for 2017

Gus Wright, Professor
Owen Duffy, Professor
CDX

This seminar, jointly presented by HD Commercial Vehicle instructors, will highlight the most recent fuel and emission standards applicable to commercial vehicles. They will also survey the most significant enabling technologies used in the latest commercial vehicle powertrains and chassis to meet mandated standards for noxious and greenhouse gas emissions. The presentation focuses on the goal of familiarizing other instructors regarding new skill sets and maintenance practices required to service fuel-efficient and low emission technologies.

Location: Carolina

Every Day Scope Techniques

Peter Meier, Director of Training, Technical Editor
UBM Americas|Automotive Group

You've used a scope for electrical diagnostics, but did you know the scope can be used to test every system on a modern automobile? Learn techniques that you can share with your students that will save them valuable diagnostic time in the reality of the flat-rate shop.

Location: Fairway

10:00 am — 10:30 am

Break

Location: Concord Hallway

10:30 am — 12:00 pm

4 Ways Shops are Working AGAINST You (And They Don't Even Know It)

Kyle Holt, President
S/P2

Automotive businesses and CTE should be working hand-in-hand. However, all too often shops are working at cross purposes to instructors and career tech schools. In this session, we will explore four ways that shops are unknowingly working in conflict with automotive schools, the black hole that this creates for your students, and ways that the entire industry can work together to overcome these challenges.

Location: Concord J

Nissan EV Technologies

James Smith, Senior Planner, Technical Training Design
Nissan North America Inc.

This session will provide an overview of the High Voltage powertrain and components used in the Nissan LEAF, including the: High Voltage Battery, Power Delivery Module, Traction Motor Inverter and Traction Motor.

Location: Concord I

Fuel Cell Vehicle Fundamentals

Andrew Knevel, Curriculum Development Administrator
Jay Brown, Curriculum Development Administrator
Toyota Motor Sales, U.S.A., Inc.

A condensed version of the instructor-led Toyota Mirai New Model Technical Introduction course that covers the features, advanced technical highlights, basic diagnosis and service related procedures.

Location: Concord A

OnCommand Connect

Christopher Moran, Personnel Development Manager

Navistar

This session will review Navistar's all-makes "connected vehicle" system, called OnCommand Connect. The review will include the system's benefits for the fleet, the dealer and the technician. It will cover vehicle monitoring, vehicle health reports, proactive service scheduling and efficient repair processes. Also covered will be a review of "over the air" programming.

Location: Concord B

Diesel Exhaust Aftertreatment Systems for the Gasoline Instructor

Curt Ward, Author/Instructor

Pearson Education/Joliet Junior College

This course will cover the operation of the diesel exhaust aftertreatment systems found on today's light duty diesel vehicles. Comparisons will be made to gasoline engine systems for ease of understanding. In addition to the operation and diagnosis of each part of the system, the maintenance of the diesel exhaust system will be covered. The presentation will also include case studies from actual vehicles.

Location: Concord C & D

Induction System Diagnosis and Repair

Jeffrey Masterman, Manager, Training Development

Standard Motor Products, Inc.

Both gasoline and diesel engines use sophisticated induction systems which include exhaust gas recirculation, manifold tuning, turbocharging and supercharging. In this class we will introduce these systems and show how they can affect diagnosis of symptoms such as low power, fuel trim codes, and low fuel economy. We will use case studies to demonstrate field diagnostics and fixes on both gasoline and diesel engines.

Location: Concord G & H

Automotive Air Filters - Many Different Types, One Common Goal

Steve Gibson, Program Coordinator, Education & Technical Training

K&N Engineering

Selecting an air filter for vehicles can be confusing at times. Some filters are paper; some are made of foam, while others are made from fabric or other materials. So what are all the differences, and how do they affect the vehicle - or the wallet? In this session, we will take a look at the common types of air filters, how they are made, and how they stop dirt and dust from damaging your vehicle's engine.

Location: Carolina

Every Day Scope Techniques

Peter Meier, Director of Training, Technical Editor

UBM Americas|Automotive Group

You've used a scope for electrical diagnostics, but did you know the scope can be used to test every system on a modern automobile? Learn techniques that you can share with your students that will save them valuable diagnostic time in the reality of the flat-rate shop.

Location: Fairway

12:00 pm — 1:00 pm

Lunch

Location: Concord E & F

1:00 pm — 2:30 pm

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Kyle Holt, President

S/P2

Automotive businesses and CTE should be working hand-in-hand. However, all too often shops are working at cross purposes to instructors and career tech schools. In this session, we will explore four ways that shops are unknowingly working in conflict with automotive schools, the black hole that this creates for your students, and ways that the entire industry can work together to overcome these challenges.

Location: Concord J

Strategy Based Instruction

Kevin Murphy, Product Manager

Jesse Mitchell, Business Development

CDX

Applying strategy based instruction ensures ROI and student success. This session is designed to provide tools to instructors for improving learner competence. Strategy based instruction parallels the SBD (strategy based diagnostic) process. Attendee will learn methods for verifying learning gaps and will address learning gaps by preparing objectives for their learners. They will choose resources to support those objectives and set-up a learning experience. Attendee will then discuss assessment options and analytics used to verify the success of learners.

Location: Concord I

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Jay Brown, Curriculum Development Administrator

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Location: Concord B

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Location: Concord G & H

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Steve Gibson, Program Coordinator, Education & Technical Training
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Selecting an air filter for your vehicle can be confusing at times. Some filters are paper, some are made of foam, while others are made from fabric or other materials. You could choose a white filter, a pink filter, a gold filter...so what are all the differences, and how do they affect your vehicle - or your wallet? In this session, we will take a look at the common types of air filters, how they are made, and how they stop dirt and dust from damaging your vehicle's engine.

Location: Carolina

2:30 pm — 3:00 pm

Break

Location: Concord Hallway

3:00 pm — 5:00 pm

Subaru Eyesight Drivers Assist - Features, Function and Maintenance

Terry Boettger, Technical Education Manager
Subaru of America

This course covers the operation of Eyesight Driver Assist System and the many features that it performs. Also covered is the explanation of how this system is tied into the vehicle in order to perform its many functions. Diagnostics and maintenance will also be covered using Subaru Select Monitor III along with setup and calibration of Eyesight System.

Location: Concord J

ZF 9HP Transmission Operation and Diagnostics

Dirk Fuchs, Technical Training Engineer
ZF Services

Session Description:

- ZF 9HP Operation and Diagnostics
- Dog clutches
- Valve body with pressure sensor
- TCU
- Torque Converter Operation and Diagnosis
- Common Problems and Solutions
- Torque flow
- Diagnostic

Location: Concord I

Bosch Brake Technology Update Seminar

James Wilson, Sr. Technical Instructor

Robert Bosch LLC

The practical braking application of hydraulic theory and diagnostic procedures with a focus on brake service tips to help avoid costly comebacks. Anti-Lock and Electronic Stability Control systems are reviewed with a focus on wheel speed, lateral acceleration, yaw rate and steering angle sensors, with theory of operation and how to diagnose and service these systems.

Topics Covered:

- Fundamentals of Braking Forces Review
- Anti-Lock Brake System (ABS) Overview
- Electronic Stability Control (ESP)
- Best Recommended Practices for Brake Service
- Systematic Brake Inspection Process
- Top 10 Tips to Ensure a Successful Brake Service

Location: Concord A

CAN Bus Simplified

Skip Saurman, Automotive Consultant

Megatech

In 2008, the Society of Automotive Engineers (SAE) required CAN Bus communications protocol for 100% of new vehicles sold in the United States. It should be easy to locate information and vehicles to train on. Find out how easy it can be utilizing the concept of theory/practice/application in this hands-on session.

Location: Concord B

Wheel Alignment and Advanced Driver Assist System

David Fox, Regional Training Instructor

Hunter Engineering Co.

Performing wheel alignments on vehicles equipped with Advanced Driver Assist Systems (ADAS). Description and function of different driver assistance systems.

Location: Concord C & D

GDI: The Analytic Test Drive

Randy Briggs, Research and Development Center Manager

CARQUEST Technical Institute

A test drive is not intended to isolate faults which may be causing a symptom or concern. The purpose of an analytic test drive is simply to gather information. Then, once the information you have gathered has been analyzed, you can determine the proper test or tests to perform in order to narrow down the problem to a vehicle system or subsystem and eventually diagnose the root cause of a problem accurately. This class will examine several examples of captured scan data from GDI vehicles. This data will quickly assess the condition of the engine management system, verify correct operation, or find clues that will direct intrusive pinpoint tests efficiently. Whether the problem is DTC-driven or symptom-driven, a repeatable test drive cycle will determine if the root cause is air (VE) related, fuel related, or adaptive related.

Location: Concord G & H

iATN in the Classroom

Scott Brown, President

iATN

Discover how iATN can benefit your school through two educator programs available today. Extensive live use of the site will demonstrate how to generate student referral codes, how to use the system to source for real-time broken vehicles, and how to follow the repair process. Additionally, advanced techniques on how to search the Knowledge Base, which encompasses millions of assets spanning the TechHelp system, Waveform library and Discussion Forums.

Location: Carolina

Opportunities in Heavy Duty Truck Collision Repair and Alignment

David Scribner, Technical Director-Americas

Car-O-Liner/TruckCam/Josam

Emerging trends of HD truck collision repair are slowly being introduced into North America as result of the influence from European OEM repair standards. Areas to be discussed are: (1) the need to rally the OEM truck manufacturers to provide dimensional measurement data for unibody BIW cabs, (2) forming and correction of high strength steels introduced in frame rails, (3) trends in riveting, (4) correct procedural analysis and measurement of axle and wheel alignment, (5) importance of camera/radar lane departure and automatic cruise control calibration.

Location: Concord C & D

5:30 pm — 6:30 pm

Reception

**Location: Concord Hallway
Outside E & F**

6:30 pm — 9:00 pm

Instructor Dinner & Recognition

Location: Concord E & F

Friday, July 29, 2016

Networking Field Trip to the Hendrick Motorsports Complex

Meet in the hotel lobby at 8:30 am for an 8:45 am departure to Hendrick Motorsports Complex. We will leave the complex at 12:45 pm and arrive back at the hotel at 1:00 pm. Lunch will be provided courtesy of Hendrick Motorsports at the Complex. If you are leaving Concord today, please be sure to check out prior to leaving for the Complex. The front desk will be able to hold your bags until you return at 1:00pm.

ASE Industry Education Alliance



**National Institute for Automotive Service
Excellence (ASE)**

www.ase.com



**National Automotive Technicians Education
Foundation (NATEF)**

www.natef.org



Automotive Youth Educational Systems (AYES)

www.eyes.org



Automotive Training Managers Council (ATMC)

www.atmc.org

ASE Industry Education Alliance



TOYOTA



Volkswagen



Audi



HONDA



SUBARU



NISSAN



Bridgestone Retail Operations



Automotive Technology



GreenLink



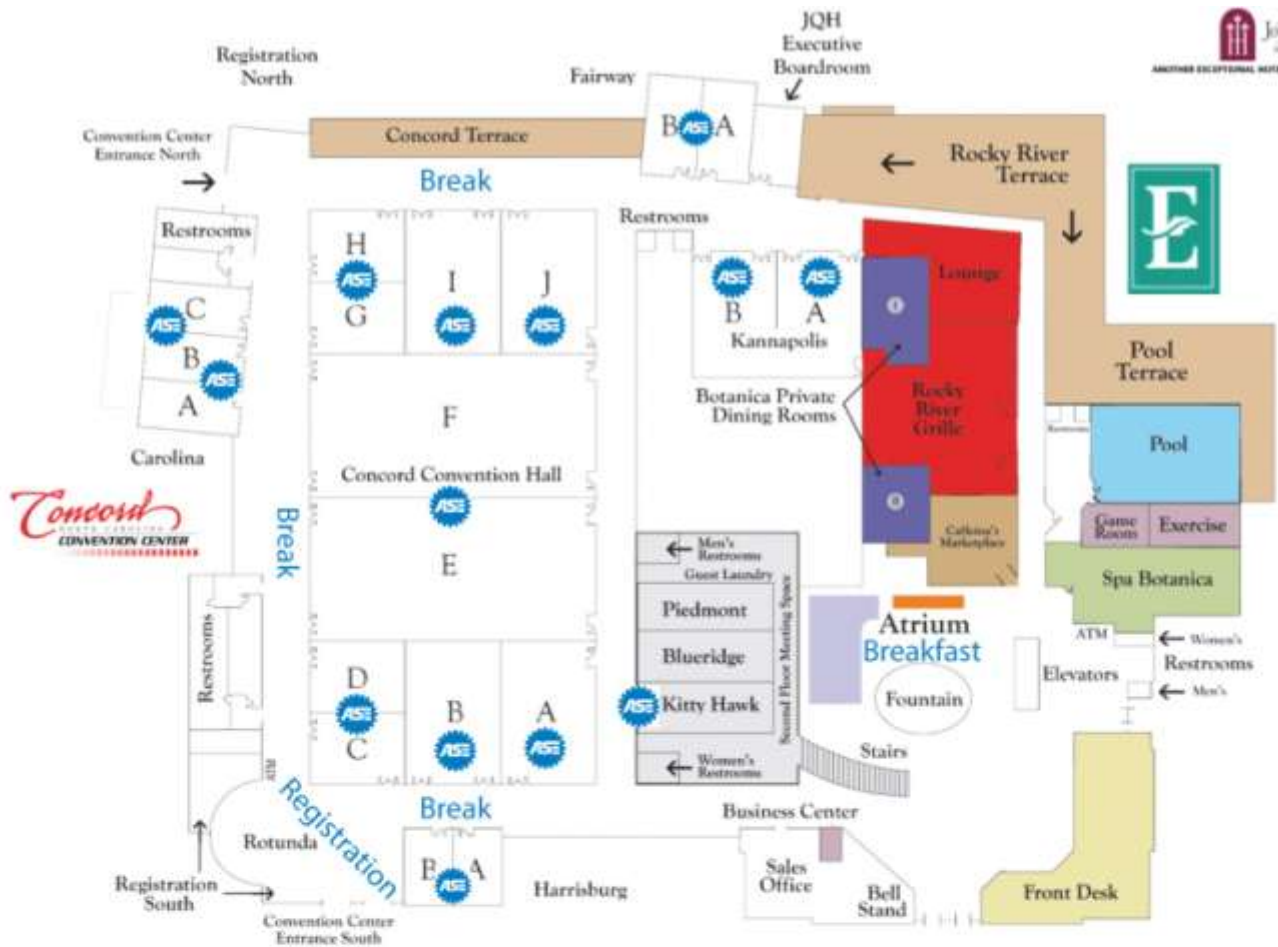
FOUNDATION



Automotive Service Association



2016 PARTNERS



FRONT DESK—EXT 2004
Check-In Time: 4pm
Check-Out Time: 11am

COOKED-TO-ORDER BREAKFAST
Mon-Fri, 6am-9am
Sat, Sun & Holidays, 7:30am-10:30am

Take Note!
Located in
Lobby Atrium

EVENING RECEPTION
Daily, 5:30pm-7:00pm

POOL
Daily, 6am-11pm (Suite Key Access)

EXERCISE ROOM
Open Daily, 24 hours (Suite Key Access)

GAME ROOM
Open Daily, 24 hours (Suite Key Access)

ROCKY RIVER GRILLE

MAIN DINING ROOM—EXT 2040
Dinner, Mon—Sat, 5pm—10pm

LOUNGE DINING—EXT 2045
Daily, 11am—11pm

BEVERAGE SERVICE
Mon-Thurs, 11am-Midnight
Fri-Sat, 11am-1am
Sun, 11am-Midnight

SUITE SERVICE—EXT 2050
Featuring the menu of Rocky River Grille
Daily, 5pm-11pm

Spa Botanica EXT 2020

Mon, 10am-7pm
Tue-Thu, 10am-8pm
Fri-Sat, 9am-8pm
Sun, 10am-5pm

Calicina's EXT 2030

Tue-Sat, 6:30am-10 pm
Sun-Mon, Mornings, 7am-2 pm
Evenings, 5pm-9 pm

SECOND FLOOR MEETING SPACE

GUEST LAUNDRY
Open Daily, 24 hours (Suite Key Access)

BOTANICA PRIVATE DINING ROOM I & II

CONCORD TERRACE
POOL TERRACE
ROCKY RIVER GRILLE TERRACES

EMBASSY BUSINESSLINK™
BUSINESS CENTER
Open Daily, 24 hours (Suite Key Access)

FREE COOKED-TO-ORDER BREAKFAST

TWO ROOM SUITES

COMPLIMENTARY COCKTAILS



Thank you for attending!

2016 ASE/EA Instructor Training Conference Seminar Schedule

Embassy Suites									
Monday, 7/25	Welcome Reception: 8:00pm - 8:00pm Concord A - D								
Tuesday, 7/26	1	2	3	4	5	6	7	8	
Breakfast 6:00 - 8:00 am	Breakfast Lobby Atrium								
Opening Session 8:00 - 8:30 am	Kickoff Meeting Concord E & F								
Automotive Education Development Sessions 8:30 - 9:30 am	New Instructor Guide Jim Anderson Darrell Parks Concord I (100)	NATEF Merlin Loville Concord I (100)	Career Link Trish Sematore & Kristen Battaglia Concord A (100)						
Automotive Education Development Sessions 9:30 - 10:30 am	Project Based Learning Jim Anderson & Jim Halderman Concord I (100)	AYES Beth Yoder Concord I (100)	Successfully Establish an Effective CTE Advisory Committee George Arrants Concord A (100)						
Break 10:30 - 11:00	Break Concord Hallway								
Location:	Concord J (50)	Concord I (50)	Concord A (50)	Concord B (50)	Concord C & D (50)	Concord G & H (50)	Carolina (50)	Harrisburg (50)	
Seminar #1 11:00 - 12:30 pm	Steven Zack Boach	Craig Van Batenburg ACDC	Anna Mattioli Randy Pindor B'laster	Troy Roach Schrader	Sean Bennett Cengage	Bill O'Neill Electude	Keith Littleton WheelTime Network	John Kershaw Kershaw	
Lunch 12:30 - 1:30 pm	Lunch Concord E & F								
Seminar #2 1:30 - 3:00 pm	Keith Glasgow ACDelco	Craig Van Batenburg ACDC	Anna Mattioli Randy Pindor B'laster	Jim Halderman Jim Halderman	Sean Bennett Cengage	Bill O'Neill Electude	Dave Ragley Ryder	John Kershaw Kershaw	
Break 3:00 - 3:30	Break Concord Hallway								
Seminar #3 3:30 - 5:00 pm	Keith Glasgow ACDelco	Troy Roach Schrader	Bobby Bassett Gates	Jim Halderman Jim Halderman	Dave Scribner Car-O-Liner	Dave Ragley Ryder	Dan Sullivan Brighter Ideas		
Resource Room 4:00 - 8:00 pm	Alliance Resource Room Available Kitty Hawk								
Wednesday, 7/27	1	2	3	4	5	6	7	8	9
Location:	Concord J (50)	Concord I (50)	Concord A (50)	Concord B (50)	Concord C & D (50)	Concord G & H (50)	Carolina (50)	Kannapolis A (50)	Kannapolis B (50)
Breakfast 6:00 - 8:00 am	Breakfast Lobby Atrium								
Seminar #4 8:00 - 10:00 am	Tom Rayk NAPA	Lyle Taylor Brian Jenkins ATech	Dirk Krieger Comutab	Skip Saerman Megtech	Randy Briggs CARQUEST	Scott Brown iATN	Jorge Menchu AES Wave	Dean Aycoth ICAR	Andrew Gilmoth FedEx
Break 10:00 - 10:30	Break Concord Hallway								
Seminar #5 10:30 - 12:00 pm	James Smith Nissan	Lyle Taylor Brian Jenkins ATech	Sandy Clark Goodheart- Wilcox	Stephen Pulcheon Snap-on	Brian Culp Honda	Jason Ross VW	Alan Knitter Ford	Dean Aycoth ICAR	Roger Maye ConMat
Lunch 12:00 - 1:00 pm	Lunch Concord E & F								
Seminar #6 1:00 - 2:30 pm	Curt Ward Pearson Education	Jim Mueller Justin Franchak Team Torque	Sandy Clark Goodheart- Wilcox	Stephen Pulcheon Snap-on	Brian Culp Honda	Jason Ross VW	Alan Knitter Ford	Dean Aycoth ICAR	Horner Hogg TA Truck Service
Break 2:30 - 3:00	Break Concord Hallway								
Seminar #7 3:00 - 5:00 pm	Tom Rayk NAPA	Jim Mueller Justin Franchak Team Torque	Tim Dwyer Comutab	Rick Kearns Federal Mogul	Jim Doyle Audi	David Fox Hunter	Jorge Menchu AES Wave	Dean Aycoth ICAR	Horner Hogg TA Truck Service
Expo 5:30 - 9:00 pm	Company Expo Concord E								
Thursday, 7/28	1	2	3	4	5	6	7	8	
Location:	Concord J (50)	Concord I (50)	Concord A (50)	Concord B (50)	Concord C & D (50)	Concord G & H (50)	Carolina (50)	Fairway (50)	
Breakfast 6:00 - 8:00 am	Breakfast Lobby Atrium								
Seminar #8 8:00 - 10:00 am	Terry Boettger Subaru	Dirk Fuchs ZF Services	Bobby Bassett Gates	Rick Kearns Federal Mogul	Jim Doyle Audi	Randy Hargett General Motors	Gin Wright Owen Duffy CDX	Peter Meier Motor Age	
Break 10:00 - 10:30	Break Concord Hallway								
Seminar #9 10:30 - 12:00 pm	Kyle Holt S/P2	James Smith Nissan	Andy Knevel Jay Brown Toyota	Chris Moran NAVSTAR	Curt Ward Pearson Education	Jeff Masterman Standard Motor Products	Steve Gibson K&N Engineering	Peter Meier Motor Age	
Lunch 12:00 - 1:00 pm	Lunch Concord E & F								
Seminar #10 1:00 - 2:30pm	Kyle Holt S/P2	Ravin Murphy Jesse Mitchell CDX	Andy Knevel Jay Brown Toyota	Chris Moran NAVSTAR		Jeff Masterman Standard Motor Products	Steve Gibson K&N Engineering		
Break 2:30 - 3:00	Break Concord Hallway								
Seminar #11 3:00 - 5:00 pm	Terry Boettger Subaru	Dirk Fuchs ZF Services	Jim Wilson Boach	Skip Saerman Megtech	David Fox Hunter	Randy Briggs CARQUEST	Scott Brown iATN	Dave Scribner Car-O-Liner	
Reception 5:30 - 6:30 pm	Reception Concord Hallway								
Dinner 6:30-8:00 pm	Instructor Dinner & Recognition Concord E & F								
Friday, 7/29	Breakfast 6:00am - 8:00am in Lobby Atrium Networking Field Trip to Hendrick Motorsports Complex Meet in the Embassy Suites lobby at 8:30 am.								