presents the

24th Annual
Emergency & Municipal Apparatus
Maintenance Symposium

September 26 thru 30, 2016
at the

OHIO FIRE ACADEMY

Classes will be conducted at the Ohio Fire Academy 8895 E. Main St. Reynoldsburg, Ohio.

SCHEDULE OF EVENTS

Sept. 26-Monday REGISTRATION AND OPENING REMARKS
Registration 7:00 to 8:30 and Opening Remarks at 8:30

Sept. 26 thru 30 PRESENTATION OF CLASSES
Monday - Friday Class Instruction starts at 9 AM
Monday - Thursday, class ends at 4 PM. Friday, class ends at noon.

Sept. 27-Tuesday SUTPHEN PLANT TOUR & BBQ (Springfield plant)
Tour of manufacturing plant of Sutphen plant. Sales presentation, product tour and dinner provided. Transportation provided by Sutphen. Bus will leave host hotels promptly at 4:45 PM.

Sept. 28-Wednesday OAEVT ANNUAL BANQUET AND AWARDS CEREMONY
Held at the Tall Timbers Banquet Center 13831 St Rt 40, Reynoldsburg, OH 43068.
Social time: 5:30 PM, Meal 6:00 PM
Advanced reservations are required. See Tuition Information.

Sept. 28-Wednesday OAEVT ANNUAL MEETING
Held at the Tall Timbers Banquet Center 13831 St Rt 40, Reynoldsburg, OH 43068, following the banquet and awards ceremony. Starting time 7:00 PM.
Admission is free to OAEVT members not attending the banquet.

Sept. 29-Thursday EMERGENCY VEHICLE TECHNICIAN CERTIFICATION TESTING
Held at the Ohio Fire Academy. Time: 4:00 PM.
Applicants must have preregistered and paid the required fees to the EVT Certification Commission prior to testing. Registration deadline, September 8, 2016. EVT Cert. Comm, P.O. Box 894, Dundee, IL 60118, 847-426-4075
Testing is not required to attend the symposium.

LODGING
Students are responsible for their own lodging. However, a group of rooms have been blocked at the Best Western Executive Suites 1899 Winderly Lane, Pickerington, OH 43147. Phone 614-860-9804. Confirmation #1506, with a special rate of $69.00 per night for all style rooms, which includes a full breakfast bar. Second host hotel @ Hampton Inn – East 1890 Winderly Lane, Pickerington, OH 43147 OAEVT Group pricing $99.00 per night C-OAE is the reservation code. Phone 614-864-8383
Be sure to mention that you are attending the OAEVT Symposium to receive this rate. The Ohio Fire Academy also has hotel style rooms available; please call 1-888-726-7731 for details and cost. Hotel reservations must be made by August 31, 2016.
ATTENDEE REGISTRATION FORM

2016 OHIO ASSOCIATION OF EMERGENCY VEHICLE TECHNICIANS
EMERGENCY & MUNICIPAL APPARATUS MAINTENANCE SYMPOSIUM

**NOTE: PLEASE PRINT or TYPE all information.** This form must be filled out completely or it will be returned to you. DEADLINE for registration is September 16, 2016. All late registrations after 9-16-16 will be required to pay a fee of $25 per day/class or $125 total for the week. Full registration refund prior to 8-26-16. 50% refund prior to 9-9-16. No refund after 9-9-16.

Name________________________________________________________________________________

Preferred Address _______________________________________________________________________

City___________________________________ State_________________ Zip________________

Cell Phone (     ) ____________________________ Work Phone (     ) ____________________________

E-mail __________________________________________________________________________________

Fire Dept./ Agency / Company______________________________________________________________

Address ________________________________________________________________________________ Zip________________

Do you plan to attend Wednesday night Banquet? (   ) Yes (   ) No

REGISTRATION

Carefully fill out the registration form and send it along with full tuition or payment verification: (for example purchase order number from your employer)

Scan and email completed registration to pguhde@aol.com or by mail,

Ohio Association of Emergency Vehicle Technicians, Inc.
P.O. Box 303 • Avon, Ohio 44011

Use class selection number — **PLEASE indicate second choice!**

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<tr>
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<th>Monday</th>
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*Form may be photocopied as needed.*
TUITION INFORMATION
REGISTRATION CLOSES SEPTEMBER 16, 2016
Late registration rate will be required. $25 per day/class.

FULL PACKAGE
Includes the 5 day symposium, daily lunch, and the Wednesday night Banquet:

$425.00 ____________________________

Daily Rate - Any Class................................. $150.00 ____________________________

The Wednesday Night Banquet-
ADDITIONAL TICKETS ...................... $30.00 ____________________________

TOTAL ENCLOSED ______________________

Late Registration after 9-16-16 Full Week.............. $125.00 ____________________________

Per Day/Class........................................ $25.00 ____________________________

TOTAL INCLUDING LATE REGISTRATION ______________________

Send registration form along with full tuition or payment verification:
(for example, purchase order number from your employer)

Registration: Monday 7:00 AM to 8:30 AM Welcome & Opening Remarks: 8:30 AM
Class Times: Classes are Monday thru Thursday from 9 AM to 4 PM, with one hour for lunch and two 15 minute breaks. Friday 9 AM - 12 PM

Lunch will be in the Ohio Fire Academy cafeteria. Meal tickets will be issued to each student. Some classes are limited in size due to hands-on training. Register early, classes will be filled on a first come, first served basis.

Class registrations must be postmarked by September 16, 2016. Electronic or scanned registrations are encouraged; send to pguhde@aol.com.

Certificates of attendance will be awarded upon payment of all fees and verification of attendance.

Students are responsible for providing suitable personal protective equipment, i.e., eye protection, hearing protection, as may be needed for the hands-on portion of any class.

O.A.E.V.T. reserves the right to cancel or substitute classes due to conditions beyond our control. Reasonable efforts have been made to confirm the classes and instructors scheduled.

Please call Pat Guhde (440) 476-8707 or E-mail at pguhde@AOL.com
2016 Class Descriptions

**Class 050 Harrison Hydraulic Generator**
This class will cover Installation, Troubleshooting and Maintenance for Hydraulic Generators with an actual working parts to complete a full build of the Harrison Hydraulic gen - set technology, and the Harrison specific product information.
Instructor: Paul Newton & Jim Majzel, Harrison Hydraulic

**Class 051 Wheel Bearing, Seal, & Brake Clinic**
This class will cover wheel bearing adjustment, wheel seal selection with removal and installation, and a short brake clinic to finish up the terrific week we have had already. Don’t miss this special tricks for the trade from Michael.
Instructor: Michael Gerrick, Federal Mogul

**Class 052 Rom Roll-Up doors and Rom Products**
This class will go over the set-up, installation, and operation of Roll up doors. Terry will have an actual door for the classroom portion and will be able to discuss, proper alignment, adjustment, and be able to work through electronic switch issues. The class will be able to go to the A building and use the skills learned on actual fire trucks at the Academy.
Instructor: Terry Bay, Rom Corporation

**Class 053 Stryker EMS**
This class will go over the Stryker EMS product line on proper installation, use, cleaning and maintenance, and repairs. The products will include cot, power load, stair chairs and other EMS products. Note: This class will not enable certified repairs to be done, but will help the users and maintenance personal understand, maintain, and diagnose issues.
Instructor: Sean Hall & Allyson Wright, Stryker Medical

**Class 100 Monday Fire Pump Familiarization**
6 Hrs
This class is designed to instruct technicians on the repair and maintenance of Basic Electrical Systems. The class will start at the basics with power and ground and work up from there. Class includes lecture, demonstration, and hands-on instruction.
Instructor: John Merrifield, Spartan Chassis

**Class 101 Basic Electrical Troubleshooting**
6 Hrs
This class is designed to instruct technicians on the repair and maintenance of Basic Electrical Systems. The class will start at the basics with power and ground and work up from there. Class includes lecture, demonstration, and hands-on instruction.
Instructor: John Merrifield, Spartan Chassis

**Class 102 EVT Prep F - 2 Design and Performance Standards of Fire Apparatus**
6 Hrs
This class prepares the technician to understand the EVTCC F - 2. This class covers design and performance standards and accepted practices used for the Standard for the Inspection, Maintenance, Testing, and Retirement of In-Service Automotive Fire Apparatus. Textbook Recommended NFPA 1901, 2009 & IFSTA Pumping Apparatus / Driver/Operator Handbook Note; Student Must be Pre-Registered with the EVTCC to take test on 9-29-16
Instructor: Alan Conkle, OAEVT Executive Director

**Class 103 Horton Electrical & Freightliner Chassis Maintenance & Repair**
6 Hrs
This class will enable you to understand and troubleshoot Horton’s Electrical Systems used throughout the years, The System 2000 will be discussed and Kevin will take you through the upgrades and revisions of today’s Intelliplex. The second half of the day will be spent with lecture and hands on an actual Freightliner M2 chassis. The portion of the class will be instructed by a Fire & Emergency Truck Specialist from Truck Country of Wisconsin & a Vocational Manager from Freightliner Corp.
Instructor: Kevin Handlin, Horton Emergency Vehicles
Instructor: Rick Kinney, Truck Country & Brian Sutherland, Freightliner Corporation

**Class 104 Spartan Disc Brake Maintenance and Repair**
6 Hrs
This class will cover air brake theory and proper set-up to enable the technician to understand the air brake system and properly troubleshoot and repair them. Gary will focus on the Air Disc systems and will have hands on demonstration stands for students to work on.
Instructor: Gary May, Spartan Chassis

**Class 105 Cummins Engines ISB, ISC, ISL Maintenance and common failures**
6 Hrs
This class will cover the Cummins product line from years back to current production to include the 5.9, 8.3, and the big block family. This technical trainer comes from Cummins Bridgeway Columbus branch and needless to say he has seen a bunch. Don’t miss this.
Instructor: Ron Heitman, Cummins Bridgeway

**Class 106 & 118 Kussmaul Electronics Battery Conditioners and Pumps**
6 Hrs
This class will review basic electric and chassis electrical troubleshooting. Also included in this class is the troubleshooting and repair of the Kussmaul Electronic Products. Class repeated twice 106 on Monday and 118 on Wednesday
Instructor: Phil Sgroi & Danny Graham, Kussmaul Electronics

**Class 107 EVT Prep L-1 Law Enforcement**
6 Hrs
This class covers design and performance standards, installation of the specialized systems and equipment, and the accepted practices used in the service and maintenance of LE Vehicles. Your preparation and this course should allow you to understand the objectives for successful completion of the test. Students should have reference materials, go to www.evtcc.org for them. Note; Student Must be Pre-Registered with the EVTCC to take test on 9-29-16
Instructor: Ryan Dieffenbaugh & Scott Holstein, Whelen – Holstein & Associates

**Class 200 Pump Repair & Maintenance by Hale (Tues – Wed)**
12 Hrs
This two (2) day class covers the care, operation and maintenance of the Hale mid-ship pump, using actual training pump components, the gearbox, impeller assembly and all valves normally supplied with the pump will be removed, explained, examined and re-assembled. Components will be Hale specific, and class will be a terrific refresher or can be used as a prep class.
Instructor: Ric Tull, Hale Products
Class 108  Intermediate Electrical Troubleshooting by Spartan 6 Hrs.
This class is designed to instruct technicians on the repair and maintenance of Electrical Systems. The class will continue to test your basic knowledge with power and ground and work up to become an Intermediate electrical troubleshooter. Class includes lecture, demonstration, and hands-on instruction.
Instructor: John Merrifield, Spartan Chassis

Class 109  EVT Prep E-0 & F – 1 Maintenance, Inspection, and Testing of Ambulances & Fire Trucks 6 Hrs.
This class covers the Maintenance, Inspection, and Testing of Ambulances as covered in KKK-A-A822 Federal Specification for the Star of Life Ambulance, Meritor Preventive Maintenance and Lubrication, and NFPA 1911, Standard for the Inspection, Maintenance, Testing and Retirement of In-Service Fire Apparatus. Note; Student Must be Pre-Registered with the EVTCC to take test on 9-24-15
Instructor: Al Conkle, OAEVT Executive Director

Class 300  EVT Prep F – 5 Aerial Apparatus Tuesday & Wednesday 12 Hrs.
This class prepares the technician to understand the EVTCC F - 5. This should assist the technician to further understand, and add to the students knowledge and experience to understand the learning objectives of Aerial Fire Apparatus. Textbook Recommended NFPA 1901, NFPA 1911. This is a two day class Note; Student Must be Pre-Registered with the EVTCC to take test on 9-29-16
Instructor: John Taylor, Sutphen Corporation

Class 110  Drum Air Brake Maintenance and Repair 6 Hrs.
This class will cover air brake theory and proper set-up to enable the technician to understand the air brake system and properly troubleshoot and repair them. Gary will focus on the Air Drum systems and will have hands on demonstration stands for students to work on.
Instructor: Gary May, Spartan Chassis

Class 111  Cummins Engines and the Regeneration Process 6 Hrs.
This class will cover the Cummins product line to include the regeneration process and the new EPA mandated emissions. Dale will also cover the EPA future plans and the engine manufactures plans to possibly re-program the controls of the engine for the fire vaccination vehicles. This technical trainer comes from the Cummins Bridgeway Columbus branch facility, and needless to say he has seen a bunch. Don't miss this.
Instructor: Ron Heitman, Cummins

Class 112  Tuesday International Engine Maintenance and After Treatment 6 Hrs.
Class 113  Thursday International Engine Maintenance and After Treatment 6 Hrs.
This class will cover the Diamond Logic and ISIS systems used by International Truck to diagnose and repair the engine and chassis systems. Mitch will present material for the DT and V8 Engine product line as well as maintenance tips and tricks for the exhaust after treatment systems.
Instructor: Mitch Wilson & Tim White, International Truck – Rush International

Class 114  Wednesday Municipal Central Hydraulic Maintenance & Troubleshooting 6 Hrs.
This class will start out with central hydraulic principles and theories commonly found on salt/plow trucks for the morning half, and then blend into Installation, Troubleshooting and Maintenance for Hydraulic systems and finish up the day full of information for Hydraulic technology, and some specific product information. The class will also include hands-on troubleshooting with actual vehicles on campus. Same Class repeated twice, Tuesday 113 and Wednesday 119
Instructor: Justin Severa, Concord Road Equipment

Class 115  EVT Prep Class for F-3 Fire Pumps and Accessories 6 Hrs.
Class 116  Intermediate Electrical Troubleshooting by Spartan 6 Hrs.
Class 117  120 Volt Line Voltage AC Electrical Theory and Generator Power on Vehicles 6 Hrs.
Class 118  Advanced Electrical Troubleshooting 6 Hrs.
This day class is designed to instruct the technician on the repairs and maintenance of Fire Apparatus Electrical Equipment. Students should either have EVT F-4 or have been through an intermediate class first or have a good understanding of power and ground, volts, and amps as they apply to Apparatus. Class includes lecture, demonstration, and hands-on instruction.
Instructor: John Merrifield, Spartan Chassis

Class 119  EVT Prep Class for F-3 Fire Pumps and Accessories 6 Hrs.
Class 120  Data Link Diagnostics, Code Reading via gauges, DVM 6 Hrs.
This class is designed to instruct the participant on how to extract information from the fire truck electronics used the above methods. John knows his way around the truck and will help you use the trucks technology to help diagnose issues that you have. Bring your electronic tools and he will also be able to show you how to use them.
Instructor: John Merrifield, Spartan Chassis

Class 121  Data Link Diagnostics, Code Reading via gauges, DVM 6 Hrs.
Class 122  Advance Electrical / Multiplexing By Weldon  6 Hrs.  
This class is designed to instruct technicians on the repair and maintenance of V-Mux Electrical Systems. The class will start at the basics with power and ground and work up from there. Class includes lecture, demonstration, and hands- on instruction with the actual Weldon V-Mux training module.  
Instructor: Jeff Dilgren, Weldon – Akron Brass  

Class 123  Sutphen Custom Pumper Maintenance  6 Hrs.  
This class will cover the recommended maintenance practices specifically for the Sutphen product. Class will consist of classroom and an actual truck for hands-on.  
Instructor: John Taylor, Sutphen Corporation  

Class 124  Spartan Air Conditioning Maintenance and Repair  6 Hrs.  
This class taught by Gary should say it all, but he will go over in the classroom basics and theory first and then move to the demo to do some hands on. Class will include maintenance, troubleshooting and repair of the air conditioning systems in fire apparatus.  
Instructor: Gary May, Spartan Chassis  

Class 125  EVT Prep Class, E-2 & F-4  Ambulance & Fire Truck Electrical Systems  6 Hrs.  
This class prepares the technician to understand The EVTCC E-2 exam which covers the basic design and performance requirements of ambulance electrical systems, components of electrical systems, and preventive maintenance and troubleshooting activities. Also The EVTCC F-4 exam which covers the basic design and performance requirements of fire apparatus electrical systems, components of electrical systems, and preventive maintenance and troubleshooting activities. Required text, KKK-A-1822E Federal Spec for the Star-of Life Ambulance, Heavy Duty Manual by Interstate Battery, Auto Electricity & Electronic Technology, Any Heavy Duty Truck Electrical Manual & Fire Dept. Pumping Apparatus Maintenance.  
Note: Student Must be Pre-Registered with the EVTCC to take test on 9-29-16  
Instructor: Mike Santilli, Fire House Electrical  

Class 127  EVT Prep L-1 Law Enforcement  6 Hrs.  
This class covers design and performance standards, installation of the specialized systems and equipment, and the accepted practices used in the service and maintenance of LE Vehicles. Your preparation and this course should allow you to understand the objectives for successful completion of the test. Students should have reference materials, go to www.evtcc.org for them. Note; Student Must be Pre-Registered with the EVTCC to take test on 9-29-16  
Instructor: Ryan Dieffenbaugher & Scott Holstein, Whelen – Holstein & Associates  

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### OAEVT MAINTENANCE SYMPOSIUM  
**SCHEDULE SEPTEMBER 26 THROUGH 30**

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<th>TUESDAY  9-27</th>
<th>WEDNESDAY  9-28</th>
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<td>Fire Pump Familiarization 100</td>
<td>Fire Pump Maintenance &amp; Repairs by Hale Day 1 of 2 200</td>
<td>Fire Pump Maintenance &amp; Repairs by Hale Day 2 of 2 200</td>
<td>Fire Pump Familiarization 120</td>
<td>Harrison Hydraulic Generator 050</td>
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<td>Basic Electrical By Spartan 101</td>
<td>Intermediate Electrical By Spartan 108</td>
<td>Advanced Electrical by Spartan 114</td>
<td>Data Link Diagnostics Electrical Accessory Installation 121</td>
<td>Wheelbearing, Seal &amp; Brake Clinic 051</td>
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<tr>
<td>EVT Prep F-2 Design &amp; Performance 102</td>
<td>EVT Prep E-0 &amp; F-1 Maint &amp; Inspection 109</td>
<td>EVT Prep F-3 Pump 115</td>
<td>Weldon Multiplex 122</td>
<td>Rom Roll-Up Door Maint., Repair and Switches 052</td>
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<td>Horton Electrical Freightliner Chassis Maint &amp; Repair 103</td>
<td>EVT Prep F-5 Aerial Day 1 of 2 300</td>
<td>EVT Prep F-5 Aerial Day 2 of 2 300</td>
<td>Sutphen Custom Pumper Chassis Maint. 123</td>
<td>Stryker EMS Products Maintenance and Overview 053</td>
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<td>Spartan Disc Brake Maintenance &amp; Repair 104</td>
<td>Spartan Drum Brake Maintenance &amp; Troubleshooting 110</td>
<td>EVT Prep F-1 Maint &amp; Inspection 116</td>
<td>Spartan Air Conditioning Maint. &amp; Repair 124</td>
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<td>Cummins ISB,ISC,ISL Maintenance 105</td>
<td>Cummins Engines &amp; Regeneration 111</td>
<td>120V Line Voltage Electrical &amp; Generator power on Apparatus 117</td>
<td>EVT Prep E-2 &amp; F-4 Electrical 125</td>
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<td>Kussmaul Battery Conditioners and Pumps 106</td>
<td>International Engine Maint. &amp; after Treatment 112</td>
<td>Kussmaul Battery Conditioners and Pumps 118</td>
<td>International Engine Maint. &amp; after Treatment 126</td>
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<td>EVT Prep L-1 Law Enforcement 107</td>
<td>Municipal Central Hydraulics Theory, Maint &amp; Troubleshooting 113</td>
<td>Municipal Central Hydraulics Theory, Maint &amp; Troubleshooting 119</td>
<td>EVT Prep L-1 Law Enforcement 127</td>
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<td>Sutphen Fire Truck Factory Tour &amp; BBQ  4:30 – 9:30 buses will leave promptly from the host Hotels at 4:45 Springfield, OH</td>
<td>Annual Banquet &amp; Meeting 5:30 – 9:00 • Tall Timbers</td>
<td>EVT Testing 4:00 • Ohio Fire Academy</td>
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