SATURDAY SESSIONS (No charge for Opening Remarks and Keynote Address)

8:45AM-10:30AM    Opening Remarks and Keynote Speaker
Dr. Thomas Trimarco, EMS Medical Director, Dartmouth Hitchcock Medical Center
Dr. Kenneth Call, EMS Medical Director, New London Hospital
Nick Mercuri, Bureau Chief, Bureau Chief, Division of Fire Standards and Training & EMS

Keynote Address: EMS: Its Past, Present, and Future…

Description: Dr. Trimarco will be discussing the history of emergency medical services, the transition to its current state in the US and New Hampshire, and future advances in clinical and operational activities.

Speaker Dr Thomas Trimarco, MD, EMT, EMS Medical Director, Dartmouth Hitchcock Medical Center

#200 10:30AM–12:00PM       Stickers, A Dunk Tank and a little in between.

Description: “What’s my role in EMS Community Education, injury prevention and community outreach?” This lecture will focus on what EMS can provide and assist with in their community. With many programs like, CPR in Schools, community AED programs, homes inspections for risk assessments, and other areas, are we still doing all we can do. Do you have the ability to assist with local high school Anatomy &Physiology classes? This can serve as a recruiting tool too. Do you have a program that help with addictions in your area that you could supply resource material or assist offering courses? With the EMS code of ethics ~ can we do more?

Instructor: Jason A. Ziter, AEMT, NH I/C

#201 10:30AM-12:00PM       PTSD in EMS, What’s the Scoop?

Description: PTSD, what is it, who may suffer from it and how do they/you deal with it? PTSD is on the rise in emergency services. Have you ever thought that you may be suffering from PTSD? This program will take a look at how providers in emergency services can come to this point in their lives. The symptoms that you as a co-worker, friend, or significant other should look for: along with ways and options to deal with it. This will be an open discussion lecture.
Instructor: Michael Kennard, Paramedic, NH I/C

#202 10:30AM-12:00PM  The EMS-Hospital Handoff: Opportunities to Improve Stroke Care

Description: An update on efforts to improve stroke care in NH will be presented. Following this, the importance of EMS-ED handoffs will be reviewed. This includes the information communicated in hospital pre-notification, the “drop-off” in the ED, orders for care provided during inter-facility transports, and hospital-EMS feedback.

Instructor: Dr. Timothy Lukovits, MD, DHMC, Medical Director for the NH Stroke Collaborative.

#203 10:30AM-12:00PM  Tips and Tricks for Airway Management

Description: Can’t Ventilate? What should you do? From BLS measures to advanced airways, RSI, and ventilation strategies.

Instructor: Scott Lancaster, Paramedic, NH I/C, professor at Northern Essex Community College.

#204 10:30AM-12:00PM  Street Smart Firefighter Rehabilitation

Description: This session will define what Fire Chiefs expect when they ask their EMS unit to establish “Rehabilitation” at an incident or extended training session. The session will explore the requirements of NFPA 1584-Rehabilitation, discuss sample standard operating guidelines, review effective rehabilitation and the medical assessments expected by the Chief. Common problems, needed equipment and required staffing will be discussed. The session will utilize examples of incidents and explore what works and what does not which will generate lively discussion. The session deals with a critical component of effectively managing incidents. It will emphasize keeping the process simple and utilizing readily available equipment and supplies. Those that will attend will obtain forms and standard operating guidelines that can be modified for their department’s use.

Instructor: Chief Allan R. Clark, Fire Chief of Sugar Hill, NH

#205 10:30AM-12:00PM  Is Your Patient Sensitive, Itchy, or Dying- Allergies vs Anaphylaxis

Description: This presentation will briefly discuss the epidemiology of allergic & anaphylactic reactions in the US and in NH. We will look at the differences between the two diseases from a pathophysiology and treatment modality perspective. The attendee will walk away with a better understanding of when, how, and why we treat these diseases from an EMS point of view.

Instructor: Jeffrey Stewart, Paramedic, NH I/C

#206 10:30AM-12:00PM  Performance under pressure: optimizing leadership, and team interactions in dynamic environments

Description: Providing emergency medical care in the prehospital environment offers unique challenges. Situations are complex and dynamic. Also, time-sensitive injuries or medical conditions exist and there are potentially overwhelming sensory stimuli that come to bear on providers. The stress and potential cognitive
overload can stifle performance and delay both optimal care and progression to definitive management. This lecture presents the concept of Team Performance Optimization (TPO): a novel tool for controlling chaos and delivering high level patient care from the time of first contact, to the doors of the emergency department, and beyond.

**Instructors:**
Instructor: Andrew Miller, Flight Paramedic - DHART
Instructor: Michael Lauria, Flight Paramedic - DHART, medical school student

**#207  1:00PM - 2:30PM  Upgrading the Toolbox: Evidence Based Prehospital Practice**

**Description:** An evolution towards evidence-based medical practice has swept the modern medical world, and the EMS profession is no exception. Lecture / Discussion focusing on how this trend effects the pre-hospital environment, and how the EMS provider can understand, embrace and benefit from the change. A focus on critical appraisal, interpretation and application.

Instructor: Jeremiah Goyette, Flight Paramedic - DHART

**#208  1:00PM-2:30PM  High Functioning CPR -The Pit Crew and Beyond**

**Description:** You’ve heard all about new CPR (now its CABs instead of ABCs), but how do you standardize the care of cardiac arrest patients to improve survival rates in your system? This session will review what we have learned about how to improve cardiac arrest outcomes, including simple steps your service can take to implement effective cardiac arrest management in the field.

Instructor: Jim Suozzi, DO, NRP, FACEP

**#209  1:00PM-2:30PM  Prehospital Pediatric Trauma**

**Description:** Presentation focused on their care & the unique challenges they may present.

Instructor: Lola Whalen, RN, NREMT-B

**#210  1:00PM-2:30PM  EMS, Fire and Police in the Active Shooter Warm Zone**

**Description:** This session will discuss EMS, police, and fire personnel taking a more active role in Warm Zone operations using the Rescue Task Force (RTF) concept and our integration into a truly unified response with law enforcement. A Rescue Task Force is used to describe a team(s) deployed to provide point-of-wound care to victims while there remains an active threat. The objective of the team is to treat, stabilize, and rapidly remove civilian casualties while wearing ballistic protection and under the protection of law enforcement .

Instructors: Chief Robert Cormier, Tilton Police Department and Nick Mecuri, EMS Bureau Chief

**#211  2:45PM-4:15PM  I Kid You Not – Meet the Kidneys!**

**Description:** They come as a matched set and have the all-important adrenal gland sitting on top of them. The kidneys do more than just produce urine and is frequently a culprit in causes of “abdominal pain”. Join us in exploring this unique organ, its pathophysiology and implications for pre-hospital care.
Instructor: Jeanne Erickson, BSN, CEN, AEMT, NH I/C

#212  2:45PM-4:15PM    Cardiology in 90 Minutes
Description: A basic primer to how the heart works, what an ECG is and how disease processes affect the circulatory system.

Instructor: Jon Bouffard, Paramedic, Deputy Chief of EMS with the Division of Fire Standards & Training and EMS.

#213  2:45PM-4:15PM    Is it Tight Enough? Tourniquets are Back!
Description: With more evidence on the use of tourniquets, are we utilizing them the way we should in the pre-hospital setting. Motor vehicle crashes and traumatic injuries are something that we encounter on a daily basis. Are we applying the tourniquet as often as we should and are they doing the job they’ve been designed to do. What are some of the thoughts on using them and what are the pro’s and con’s. Objectives will cover proper assessment and placement of tourniquets. With real life local scenarios and case studies, this lecture will cover the appropriate use of tourniquets in the pre-hospital setting.

Instructor: Jason A. Ziter, AEMT, NH I/C

#214  2:45PM-4:15PM    Clandestine Labs & Your Community
Description: Always changing and new! In this session, you will learn about the types of chemicals used in clandestine labs. Mr. Cartier will discuss the current manufacturing techniques, as well as national and local perspectives on clandestine labs. Decontamination procedures for property and personnel will also be addressed. Participants will be able to explain what a clandestine lab is and what to do if a clandestine lab is discovered in your community in addition to how to decontaminate if exposed to chemicals used in these labs.

Instructor: Les A. Cartier, Hazardous Materials Coordinator, NH State Fire Marshall’s Office

#215  1:00PM-4:00PM    Traumatic Brain Injury
Description: This session covers A & P of the brain and CNS, assessment and patient packaging. Use of the Glasgow Coma Score is stressed with evaluation of numerous adult and pediatric scenarios. Field treatment is addressed including, permissive fluid resuscitation and the use of Capnography in monitoring severe TBI.

Instructor: William Mead, Sr., BS, NREMT-P, NH I/C

#216  1:00PM-4:00PM    Drug Addiction? Not in my House!
Description: This presentation will cover the basics of what addiction is, differentiating between physical &
psychological addiction and dispelling common myths regarding addiction. We will discuss both the regulatory and public relations impact addiction poses when it occurs within our ranks. We will discuss strategies to prevent diversion and steps to implement if a person seeks help for addiction but has not yet diverted. We will also discuss what the New Hampshire EMS Drug Diversion Taskforce is doing and the PITSS© Model. The attendee will walk away with a “Checklist” to assess and mitigate their Department’s situation.

Instructor: Jeffrey Stewart, Paramedic, NH I/C

#217  1:00PM – 4:00PM  SimMan – Skills with Abe the Sim Man

Description: Medical/Trauma simulation for the EMS provider from first responder to paramedic: This is a hands on workshop for all levels of EMS providers, the simulation are geared to the level of provider that is participating. Providers have a chance to review skills, procedures, protocols. Review call(s) that may have been difficult. Put on your thinking cap and come along for some fun and lots of interaction with Abe the simulation manikin!

Instructor: Michael Kennard, Paramedic

Sunday Sessions:

#300  9:00AM-12:00PM  Little Tips on Little Tykes: Evidenced Based Management of Prehospital Pediatric Emergencies

Description: Recently the National Highway Traffic Safety Administration and the Emergency Medical Services for Children Program have attempted to enhance training and education as well as develop uniform guidelines for treating certain pediatric medical emergencies. The Division of Emergency Medicine at Dartmouth-Hitchcock Medical Center has become actively involved in this effort. This presentation reviews several important pediatric emergencies including seizures, respiratory distress, and trauma. The available evidence will be used to distill out key decisions and interventions for every level and give providers useful tools to take home and apply in their communities for the management of pediatric emergencies

Instructor: Michael Lauria, Flight Paramedic, medical school student

#301  9:00AM-10:30 AM  Neuromuscular Disorders 101

Description: Each day, in EMS, we respond to various emergencies involving, or caused by various neuromuscular disorders. This course will discuss and review the incidence, pathophysiology and management of
various neuromuscular disorders including, but not limited too Multiple Sclerosis, Amyotrophic Lateral Sclerosis and Muscular Dystrophy

**Instructor:** Timothy S Redding, Paramedic, NH I/C

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**#302 9:00AM-10:30AM       Ebola's Entourage**

**Description:** How do you protect yourself from VRE? Gloves, gown, and face mask only? Shoe covers? What about CRE? And was that a bug I just saw crawling in your patients pant leg? Come and get the facts on the many infectious diseases you'll potentially be exposed to on your next call, including the #1 newsmaker of 2014: Ebola.

**Instructor:** John Kettinger, Paramedic

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**#303  9:00AM-10:30AM       Planning for Mass Gatherings**

**Description:** We respond to emergencies each and every day. But are we prepared to respond or provide medical and fire service support for an event that involves hundreds or thousands of people? This session will discuss the benefits of incident and event planning, as well as provide tools to prepare a written plan for all responders to follow. Actual events and plans will also be presented for discussion. This class is a must for providers and service leaders who are responsible for planning or providing emergency services at mass gatherings or large events.

**Objectives:**

- Identify the importance of event and large incident planning
- Discuss major planning steps for events and complex incidents
- Explain the role of a formal incident or event action plan
- Describe the role and use of ICS forms in creating a written Event Action Plan.

**Instructor:** Steven Achilles, Paramedic, Portsmouth Fire Chief

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**#304  9:00AM-10:30AM       EMS Response to Elder Abuse**

**Description:** Our population is aging and the average life expectancy is increasing. With this comes increased incidence of elder abuse, which is often underreported. This session will help providers to identify the dynamics of abuse, injury patterns and the subtle available signs/symptoms that can indicate hidden abuse. We also look at the services that are available and treatment options for dealing with victims of elder abuse.

**Instructor:** Robert Freschette, Rochester, NH Police Detective

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**#305  9:00AM-10:30AM       Capnography, Pulse Ox and CPAP**

**Description:** This class addresses the pathophysiology of respiratory problems including C.O.P.D, CHF and Asthma. Treatment modalities, including Oxygen, Medications and CPAP Capnometry and Pulse Oximetry are compared and contrasted as diagnostic tools. Normal and abnormal Capnography waveforms are explored to develop an understanding of the underlying disease process.

**Instructor:** William Mead, Sr., BS, NREMT-P, NH I/C
#306  9:00AM-10:30AM Overdoses- From Spice to Narcan

Description: With last summers’ Spice epidemic and the recent influx of cheap heroin cut with everything but Narcan (because you can get it at your local pharmacy) it's time to see what else your patient could be potentially on. And how to manage them safely. Come and learn about overdoses and street drugs like smack, whack, blue envy, BubbleGum Spice, meth, dope, Molly, and the many others you'll soon be seeing again and again.

Instructor: John Kettinger, Paramedic

#307  10:45AM-12:15PM   Children at Risk of Maltreatment - EMS Role in Prevention

Description: Child Maltreatment is one of the greatest threats facing the health and well-being of children. It is estimated that 1 in 4 girls and 1 in 6 boys will be abused before the age of 18. EMS personnel routinely enter patient's homes and often are the first trained persons to evaluate an ill or injured child. Therefore, it is vital for these individuals to recognize family stress and dysfunction, and identify children who are at risk for child maltreatment.

Instructors: Keryn Bernard-Kriegl, MS in Family Studies
Dr. Tom Barton, MD, Chief of Orthopedic Surgery @ Portsmouth Hospital

#308  10:45AM-12:15PM   Blast Injuries and Explosive Trauma

Description: High energy explosives not only cause devastating injuries to the human body, but pose very specific challenges to resources and to the providers. This session reviews the pathophysiology of blast trauma to better prepare EMS at all levels to better respond to blast related injuries and a review of the best practices.

Instructor: Dan Batsie, Paramedic, department chair for EMS at Eastern Maine Community College Paramedic program.

#309  10:45AM- 12:15PM   Blood Sugar Problems! Ain’t Nobody Got Time for That!

Description: This course will discuss and explain the causes of Diabetes, DKA and HHS and will review the assessment, management and latest treatment modalities regarding Hypo and Hyperglycemia.

Instructor: Timothy S Redding NRP, NH I/C

#310  10:45AM-12:15PM   Bringing Professionals to the Table – Creating Community Capital

Description: Your table, my table, our table. In public safety today it is essential that we develop and maintain partnerships that support the natural broadening of our mission. We are not alone! In order for government to work better and more efficiently we need to be seen in ways and working with partners in the public, not for profit and private sector that we have not normally think of. This presentation will discuss the 4 components of Community Capital, its value, how to build it and maintain it.
Instructor: Sue Prentiss, BA, MPA, NREMT-P is the Manager of Emergency Medical Services (EMS) at Concord Hospital.

#311 10:45AM-12:15PM Lions and Bears and Spiders…Oh My!
Description: A comprehensive look at the exciting and terrifying and dramatic world of bites, stings, and stabs. Mammals, reptiles, (mostly snakes), and insects and spiders create almost a million patients a year from all over the country. We’ll look at what they can do to people and why folks get “attacked”, and the signs and symptoms of the various creatures, what’s happening and how to treat them.
Instructor: Bill Kane, BA, NR-AEMT, NH I/C, WEMT

#312 10:45AM-12:15PM EMS and Response to OB and “Mama Trauma”
Description: Managing common complications associated with pregnancy may not be all that common for prehospital providers; however, these conditions may be life threatening to both the pregnant patient and the fetus. This session will review the common pathophysiology of antepartum complications, signs, and symptoms, strategies, and current emergency management. Additional content including “Mama Trauma” and maternal resuscitation pearls are explained in this not-always-necessary-but-need-to-know presentation.
Instructor: Molly Bondurant, RN, BSN, CFRN, CCRN, CEN, AEMT

#313 1:00PM-2:30PM TOO Hot!…Dehydration and Heat Injury
Description: Heat and dehydration are not only dangers in themselves but also predispose people to other injury and illness. Learn how to recognize, treat and prevent them.
Instructor: Bill Kane, EMT I, NH I/C, WEMT

#314 1:00PM-2:30PM EMS Response to Domestic Violence
Description: EMS providers are often sent to domestic violence calls to tend to seemingly minor injuries. This session will give providers greater insight into the dynamics of abusive relationships. We will discuss why victims stay, why and how batterers control their partners, how to recognize the signs of abuse and how to best manage the emotional and physical needs of abused victims.
Instructor: Robert Freschette, Rochester, NH Police Detective

#315 1:00PM-2:30PM Concussion Assessment and Treatment in Sports
**Description:** The session will review current trends in sports related concussion management. What does New Hampshire law state? What is the role of EMS in concussion management? We will review assessment techniques, immediate treatment and follow up care of sports related concussions.

**Instructors:** Chris Young, MS, LAT

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**#316 2:45PM-4:15PM  On Scene Firefighter Rehab**

**Description:** Ensuring that firefighters and emergency workers receive medical monitoring, rehydration, and prevent care is a vital firefighting service on the fire ground. Too often assigning or implementing a rehab group is an afterthought; usually following a medical emergency involving one or more firefighters. There is also some controversy in who should be responsible for firefighter medical monitoring and rehabilitation, and when and how to exclude a firefighter fire ground activities. This is an updated presentation that Chief Achilles has presented in years past and should provide valuable guidance to those who respond to or are responsible for fire ground safety and medical care.

**Objectives:**
- Review fire ground activities and injuries
- Discuss general rehabilitation procedures and resources
- Review the key components to medical monitoring
- Discuss exclusion criteria

**Instructor:** Chief Steven Achilles, Portsmouth Fire Department

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**#317 2:45PM-4:15PM  Interactive Cardiac Review**

**Description:** Delivery of care to the cardiac patient is a complex and ever evolving aspect of pre-hospital environment. This session will include interactive review of current considerations and treatment parameter for all levels of EMS providers. Learners should expect to participate as educators present case reviews aiming to cultivate discussions specific to cardiac care across the transport continuum. Cases will include STAEMI care, AEKG interpretation, rhythm disturbance identification and treatment. Join Joel and Molly in their goal to engage all providers in active learning.

**Instructor:** Joel Coelho, Firefighter/Paramedic, EMS Coordinator at DHMC

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**#318 2:45PM-4:15PM  Assessing and Treating Altered Mental Status- It is more than calling ALS**

**Description:** EMTs play an important role in the EMS system and at times their valuable skill set is ignored in a rush to bring ALS into the scene. There are important assessments and treats that need to occur before ALS arrives. This session will review the assessment of altered mental status and discuss critical decision making in decrease level of consciousness.. We will review common causes of altered mental status. All are welcome , but this class is designed for EMT and AEMTS, and EMT-I.
Instructor: Dan Batsie, Paramedic, Department Chair for EMS at Eastern Main Community College Paramedic program.

#319 1:00PM-4:00PM   Field Skills for Mountain Medicine

Description: An overview of wilderness medicine and the challenges of working with a patient in a mountainous environment. Lecture followed by demonstration of skills and workshop. Be prepared to be outside.

Instructor: Andrew Miller, Flight Paramedic - DHART

#320 1:00PM-4:00PM   EMS and Crime Scene Investigation

Description: This presentation is designed to educate EMS personnel in the issues of crime scene presentation and how their approach to those scenes will impact the forensic investigation that follows. It is largely directed at suicide scenes. The session will include a presentation and case studies.

Instructor: Wayne DiGeronimo, BS, Paramedic, forensic investigator with the office of the Chief Medical Examiner.

#321 1:00PM-4:00PM   Rapid Trauma Assessment

Description: The ability to perform a rapid trauma assessment is the hallmark of every EMT skill set. This class is designed to fine tune, increase the speed, and efficiency of a rapid trauma assessment in a scenario based learning environment.

Instructor: Eric Kessler, Paramedic, NH I/C

#322 1:00PM-4:00PM   Mobile Integrated Healthcare

Description: NH in planning on implementation of Mobile Integrated Healthcare in 2015. This session reviews the very progressive, first-in-the nation, mobile integrated healthcare program. This is a pilot program in Metro-Boston using specially trained paramedics to care for chronically ill patients in their home. We will explore the program, lessons learned, and data collected to date.

Instructor: Matthew Libby, Paramedic