

# SYMPOSIUM

A ONE DAY LEARNING EXPERIENCE FOR  
E.M.S. FIRE POLICE  
EMERGENCY RESPONDERS  
TO HAZARDOUS MATERIALS AND  
CBRNE INCIDENTS

*Presented to you by:*

*DATE: Tuesday October 16, 2018*

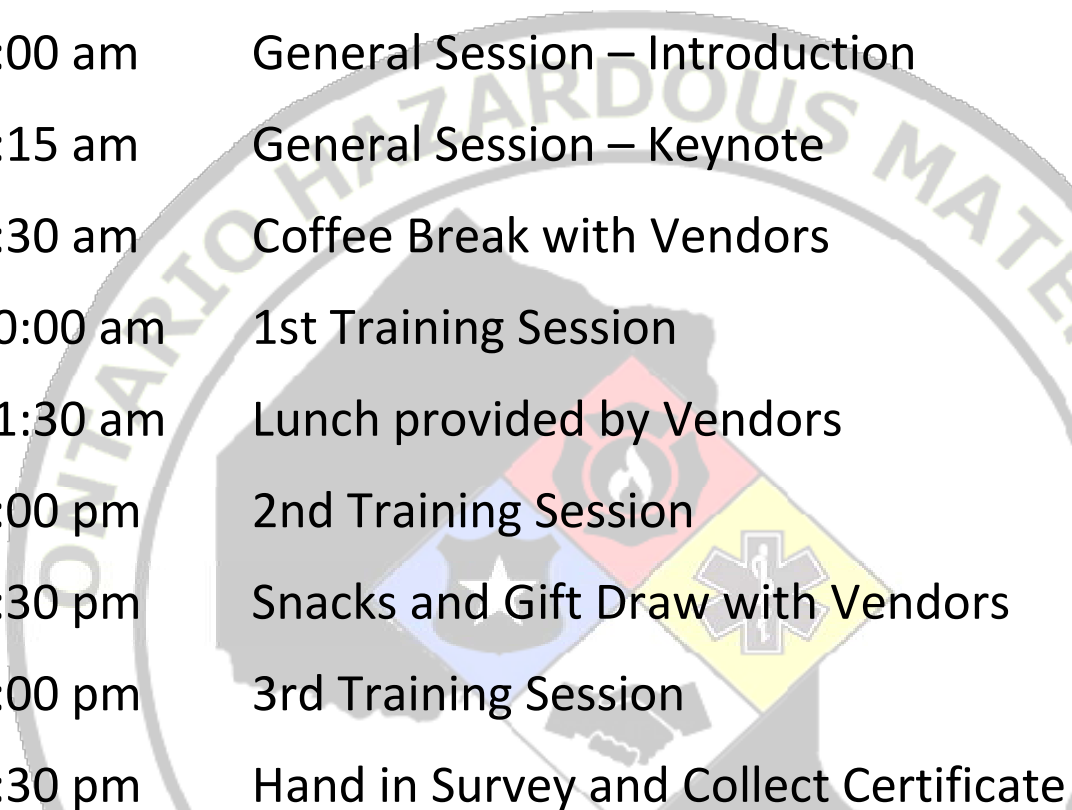
*TIME: 7:00 am thru 4:45 pm*

**LOCATION:**

Garry W. Morden Centre  
7535 Ninth Line,  
Mississauga, ON



## Schedule at a Glance:

The background features a large, semi-transparent watermark of the OHMRA logo. The logo is circular with the text "OHIO HAZARDOUS MATERIALS RESPONDERS ASSOCIATION" around the perimeter. In the center, there is a map of Ohio overlaid with three hazard diamonds: a red one with a flame, a blue one with a skull and crossbones, and a yellow one with a biohazard symbol. The acronym "OHMRA" is written in large, green, bold letters across the bottom of the logo.

7:00 am	Doors open
8:00 am	General Session – Introduction
8:15 am	General Session – Keynote
9:30 am	Coffee Break with Vendors
10:00 am	1st Training Session
11:30 am	Lunch provided by Vendors
1:00 pm	2nd Training Session
2:30 pm	Snacks and Gift Draw with Vendors
3:00 pm	3rd Training Session
4:30 pm	Hand in Survey and Collect Certificate

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## ***Keynote Address.....***

Dr Christina Baxter.

Fentanyl and fentanyl analogs are quickly becoming the most common high hazard response. However, there are many ways that the overall risk can be managed. Recognizing and understanding the threat is critical to determining the appropriate response. Using the known facts about fentanyl and its analogs (such as solubility, toxicity, degradation pathways, and others), operational response protocols will be presented for detection, identification, protection from, decontamination, and destruction of fentanyl-based materials. These simple response protocols and resultant example operational guidelines will assist responders in safely and effectively responding to this high hazard threat.

### **PROGRAM OFFERINGS**

1<sup>st</sup> Session Offerings 10:00 am to 11:30 am

#### **1A Hazmat Medics**

*Presented by – Anna Everett and Dan Stein*

Hazmat Medical will analyze two Canadian Hazmat incidents and break them into case studies. The program offers insight into a collaborative approach from Police, Paramedic and Fire Departments and involves participation from students involved. Great discussions are created in this program by group work allied agencies discussing their competing interests on critical hazmat calls giving way for appreciation for each departments' roles and responsibilities.

#### **1B Tabletop Chemistry**

*Presented by – Ed Melanson, Fire Chief, Fort Erie*

A unique look at how basic chemical properties determine all aspects of a hazardous material response. This will include PPE determination, metering / monitoring choices and decontamination methodologies. The presentation will use chemical samples to allow observation of the physical properties discussed.

#### **1C Radiation Emergencies**

*Presented by – Canada Nuclear Safety Commission*

Basics of emergency response to radiological events and review of past radiological events requiring responses.

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## **1D Chemical Suicides – Classroom (Part 1 of 2)**

*Presented by - Robert Hong-You, Centre of Forensic Sciences and OPP UCRT*

To educate and provide attendees with the different types of chemical suicides that may be encountered at scenes. The chemicals that will be discussed are hydrogen sulfide, cyanide, helium & carbon monoxide. A case study involving hydrogen sulfide will be presented.

2nd Session Offering 1:00 pm to 2:30 pm

### **2A Skin Permeation and Decontamination**

*Presented by – Dr. Christina Baxter, CEO of Emergency Response TIPS, LLC*

New and evolving research on the nature of the interaction of gases, skin, and clothing in operationally relevant timelines provides a basis for rational decision making by first responders dealing with potential casualties in the event of a chemical release. This session will provide the users with the information necessary to make timely science-based decisions related to skin decontamination.

### **2B Rail Emergency Response – Classroom (Part 1 of 2)**

*Presented by – Scott Croome, Senior Dangerous Goods Officer, CP Rail*

With the decreasing number of HAZMAT events across the Rail network, having well prepared teams has become harder every year. In this class we will cover basic tankcar damage and site assessments, along with tankcar types. As we move forward, we use training technology to help improve safety. We are able to bring the outside world into the classroom with Augmented Reality (AR).

### **2C CANUTEC and the ERG**

The important services provided by CANUTEC will be detailed, as it applies to their support at an emergency hazmat event. The effective use of the Emergency Response Guide (ERG) will be presented, outlining the value of this resource in the initial phase of a hazardous material transportation emergency. ( A simulated event may be developed and a telephone call made to CANUTEC, to display the nature of their support)

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## **2D Chemical Suicides – Practical (Part 2 of 2)**

*Presented by -Robert Hong-You, Centre of Forensic Sciences and OPP UCRT*

1. Participants will produce hydrogen sulfide by mixing the required precursors/ingredient & will use air monitoring instruments to detect the chemical.
2. Participants will then take part in the response to a hydrogen sulfide suicide involving live agents.

### **3rd Session Offerings 3:00 pm to 4:30 pm**

#### **3A Emergency Response for Clandestine Labs**

*Presented by – Dr. Christina Baxter, CEO of Emergency Response TIPS, LLC*

The threats to which you must be prepared to respond to have evolved significantly over the past few years. This presentation will focus on the evolving clandestine laboratory threat (HME, Drugs, Chemicals) and how you, as responders, must evolve in your response capabilities to meet these threats. Recognizing and understanding the threat and the risk that it poses is critical to determining the appropriate response.

#### **3B Let's talk about PIDs**

So, you're reading 102 ppm on your PID? Should you be worried? The session will cover how PIDs functions, their limitations and applications. We will also discuss the different types of PIDs, their advantages and how they may be deployed during operations.

#### **3C Countering Radicalization to Violence**

*Presented by – Cpl Stephane Roy and Cpl Roger King, RCMP*

Discussion on RCMP's role and responsibilities as first responders with respect to preventing radicalization to violence. How to increase national security awareness in first responders and key stakeholders across Canada, so they can identify threats at the earliest possible stage, as early detection is vital to prevent terrorism.

#### **3D Rail Emergency Response – Practical (Part 2 of 2)**

*Presented by – Scott Croome, Senior Dangerous Goods Officer, CP Rail*

This class will improve upon basic capping and containing skills that relate to tankcars. Participants will get to see the different types of patch kits currently being used along with some of the newest systems to help reduce environmental impacts if a container fails.

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## ***Instructor Biographies***

### **Dr Christina Baxter**

Dr. Christina Baxter is the CEO of Emergency Response TIPS, LLC which provides practical, evidence-based solutions for emergency response through the development of next generation tools for enhanced situational awareness and responder safety; instructional design in the areas of CBRNE, hazardous materials, and clandestine laboratory response; technology transition guidance for emerging technologies; and, emergency planning for hazardous materials and emergency response.

### **Canadian Nuclear Safety Commission**

Emergency Management Programs Division - Provide Regulatory oversight of Licensee emergency programs, liaise with stakeholders for nuclear emergency preparedness and response, support the federal CBRNE first responder training program.

### **Scott Croome** - Senior Dangerous Goods Officer- CP Rail

Scott covers the entire Province of Ontario as his primary response area while backing up the rest of CP's 14,000+ miles of track. In his role at CP, Mr. Croome used his experience as a Fire Fighter and Hazmat Technician to help develop training programs that are used across the CP network today.

### **Anna Everett** - Assistant Training Officer, Brantford Fire Department

Anna joined the Burlington Fire Department Volunteers at the age of 18 and moved up the ranks over 15 years to Lieutenant. She attended a CN Rail Training Workshop that lead me down the path of environmental hazmat industry cleaning up various spills and rail cars. My passion for prehospital emergency care spilled into a career working as a Paramedic for Toronto for nearly 10 years.

### **Robert Hong-You** - Centre of Forensic Sciences (CFS)

Robert is a scientist with the Chemistry Section of the CFS where he is involved in the analysis of fire debris and providing support to HazMat first responders such as police and fire services. This support has included training, reachback and scene attendance.

### **OPP UCRT**

Ontario Provincial Police UCRT is a unit of highly trained specialists within the OPP. UCRT is an acronym for "USAR (Urban Search and Rescue) CBRNE (Chemical, Biological, Radiological and Nuclear) Response Team".

### **Dan Stein** - Paramedic, York Region

Dan is a Tactical Advanced Care Paramedic on York Region's Special Response Unit. He has been on this specialized team for over 2 years and has taken on the role as the teams Hazardous Materials and CBRNE specialist. Prior to this, he has worked as a Paramedic for both York Region and the County of Simcoe over the past 8 years.

### **Ed Melanson** – Fire Chief, Fort Erie

Ed has had the unique opportunity to work in the heavy chemical industrial subsector for 35 years and as a first responder for 15. He is presently the Fire Chief of the Fort Erie Fire Department, an adjunct instructor at the Ontario Fire College and a member of the Niagara Region CBRN team. Ed is presently a member of the NFPA 1072 provincial development team.

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# Registration

First Name \_\_\_\_\_

Last Name \_\_\_\_\_

Nickname (optional for name tag) \_\_\_\_\_

Employer Agency \_\_\_\_\_

Home

# and Street \_\_\_\_\_

City \_\_\_\_\_

Province \_\_\_\_\_

Postal Code \_\_\_\_\_

Phone # \_\_\_\_\_

E-mail address \_\_\_\_\_

**Program Selection:** Please pick 2 choices for each time slot.  
(example 1A, 1C, 2C, 2B, etc.) We will try to schedule your first pick.

	1 <sup>st</sup> pick	2 <sup>nd</sup> pick
1 <sup>st</sup> Session		
2 <sup>nd</sup> Session		
3 <sup>rd</sup> Session		

Cost \$90.00

Payment options – Paypal, Credit Cards, Cheques or e-transfer

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# About OHMRA

The Ontario Hazardous Materials Responders Association (a.k.a. OHMRA) was organized in 2017. The association has a mission statement that speaks well of OHMRA's intentions.....

*To develop and promote hazardous materials responder's professional competencies and industry best practices, for all emergency services, through education, cooperation, communication and collaboration.*

Once OHMRA was organized, consideration was given to the fact that all disciplines of emergency first responders, Emergency Medical (EMS), Fire and Police typically respond to the same type of hazmat calls. Further, there would be a significant benefit to sharing response knowledge before an event. As the association continues to grow, membership in the association is currently limited to the "red lights and siren" emergency responders from all three professions.

For further information and contact details, please view [www.ohmra.ca](http://www.ohmra.ca)

OHMRA  
30 Tapleystown Rd  
Stoney Creek, ON  
L8J3K3

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**MAIL TO:**

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