



TRAINING ANNOUNCEMENT

Fire Dynamics Boot Camp



May 6 – 9, 2018 ♦ Fort Worth, Texas

In conjunction with the Underwriter's Laboratories Firefighter Safety Research Institute's (UL FSRI), The First Responder Center for Excellence for Reducing Occupational Illness, Injuries and Deaths, Inc. will host a three-day Fire Dynamics Boot Camp May 6-9, 2018 in Fort Worth, Texas.

The train-the-trainer course is designed to empower and prepare fire service leaders and instructors to incorporate the most current research findings about fire behavior and firefighting tactics into their training programs. The boot camp focuses on the "how" and "why" of fire dynamics beginning with small table top fire experiments, continuing with reduced scale fire development and flow path models and ending with full scale walk through of a training prop to understand how to apply the fire dynamics information in the street. All of these evolutions, which attendees can take back to their department, are also backed by data and videos of full-scale fire experiments conducted by UL with fire department support.

Attendees will leave with an improved understanding of fire dynamics and a digital tool kit to support their training efforts at home. Most importantly, attendees will develop a network of instructional support from instructors who are implementing this material at their fire training academies. The attendees will not need turnout gear or an SCBA. The goal is to watch and observe the fire phenomena.

To apply for the course, please complete the online application link:

www.regonline.com/FDBCFTWORTH

The Fire Dynamics Boot Camp is funded through an Assistance to Firefighters Grant Program which is offered to respective students at no charge*. Acceptance in to the course will include:

1. Lodging for three (3) nights
2. An opening reception
3. Breakfast and lunch each day
4. A closing dinner

Course attendees must currently be certified instructors and preference will be given to representatives of department training academies. For more information contact: Kelly Casillo at kcasillo@frcmail.org or 443-302-2917

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About the First Responder Center for Excellence

The First Responder Center for Excellence for Reducing Occupational Illness, Injuries and Deaths, Inc., a National Fallen Firefighters Foundation affiliate organization, was created in 2016. Its mission is to promote quality educational awareness and research to reduce physical and psychological health and wellness issues for first responders.

About the UL Fire Safety Research Institute

UL Firefighter Safety Research Institute (FSRI) advances fire research knowledge and develops cutting edge, practical fire service education aimed at helping firefighters stay safe while more effectively protecting people and property.

Tentative Agenda**

Sunday, May 6, 2018

1800 – 2000 Opening Reception and Registration

Monday, May 7, 2018

0600 – 0730 Breakfast

0730 Buses depart for Training Center

0800 – 0830 Welcome
Instructor Introductions

FRC
Dan Madrzykowski

0830 – 0900 **Why Does the Fire Service Need to Embrace Fire Dynamics and Change?**
Building construction, fuel loads, hazards, changes to PPE and equipment, LODDs, and injuries

Steve Kerber

0900 – 0930 **Stillwater Court-It Happened to Me: A Validation Case Study**
Building construction, fuel loads, strategies, and tactics

Jeff Helvin

0930 – 0945 Break

0945 – 1045 **Fire Dynamics: The Basics**
Fire triangle/tetrahedron, fuels, oxygen, heat release rate, heat transfer, heat flux, pressure

Dan Madrzykowski

1045 – 1100 Break

1100 – 1215 **Fire Dynamics Basics Lab**
Candle fire basics
What burns?
How are fuels different?
Heat transfer demos
Radiation vs. convection

All Instructors

1215 – 1300 Lunch

1300 – 1430 **Fire Dynamics in Structures**
Fuel controlled, ventilation controlled, flashover, backdraft, flow paths, neutral plane, move from single compartment to structures

Dan Madrzykowski

1430 – 1445 Break

1445 – 1545 **Fire Dynamic in Structures Tabletop Lab**
Flame in a glass
Impact of geometry/position
Pressure—expansion and contraction
Flow path

All Instructors

1545 – 1630 Fire Dynamics Applications - PPE Dan Madrzykowski
1630 – 1700 Day 1 Wrap Up/Discussion
1700 Buses depart for the hotel

Dinner tonight is on your own.

Tuesday, May 8, 2018

0600 – 0730 Breakfast

0730 Buses depart for Training Center

0800 – 0930 Building Construction Steve Kerber
Building materials tie into Day 1, structural collapse, basement fires, fire outside-in, attic fires

0930 – 0945 Break

0945 – 1045 Tactical Considerations Part 1—Size-up Steve Kerber

1045 – 1200 Tactical Considerations Part 2—Ventilation Steve Kerber
Peter Van Dorpe

1200 – 1300 Lunch

1300 – 1430 Tactical Considerations Part 3—Suppression and Coordination Steve Kerber
Peter Van Dorpe

1430 – 1445 Break

1445 – 1645 Exterior Fire Ground Activities P.J. Norwood/Sean Gray
Small-scale Fire Demo Team Instructors
Close the Door/Flow Path/ Chad Christiansen/
Suppression Jim Golondzinier

1645 – 1700 Day 2 Wrap Up/Discussion

1700 Buses depart for the hotel

1830 – 2200 Group working dinner Ed Klima
First Responders Center Overview
Program Overview
Panel Discussion Instructor Team

Wednesday, May 9, 2018

0600 – 0730	Breakfast	
0730	Buses depart for Training Center	
0800 – 0845	FDNY Implementation	Frank Leeb
0845 – 0930	Los Angeles County Fire Department Implementation	Jim Golondzinier Chad Christensen
0930 – 1000	Sacramento Implementation	Jeff Helvin
1000 – 1030	Break	
1030 – 1115	Houston Fire Department	Jeff King
1115 – 1200	CFD/Algonquin-Lake in the Hills Fire District Implementation	Peter Van Dorpe
1200 – 1300	Lunch	
1300 – 1400	Sources of Information	Steve Kerber Dan Madrzykowski
1400 – 1430	FRC Program Overview	Ed Klima
1400 – 1430	Break	
1430 – 1500	Instructor Team Panel Q and A Session	
1500 – 1530	Closing	FRC
1545	Buses Depart for Hotel	

*** Student must provide credit card for incidentals and room confirmation. Students who fail to attend or cancel at least 7 days prior will be charged for their room.**

**** Actual instructors and agenda may change based upon availability.**