

**FIREFIGHTER PHYSIOLOGICAL MONITORING**  
**TECHNOLOGY**  
March 28–30, 2018  
Washington, DC  
**SUMMIT**

PRESENTED BY:



## AGENDA

### Wednesday March 28, 2018

**All day**                      **Rolling arrivals of attendees, presenters, facilitation teams, and staff**

**1:00 – 5:00 PM**              **Registration in the hotel lobby**

**4:00 PM**                      **Facilitator and presenter meeting**  
*Please meet in the hotel lobby.*

**5:00 – 7:00 PM**              **Opening Reception at:**

**The Dubliner**

4 F Street NW

Washington, D.C. 20001

*The Dubliner is .2 miles from the hotel, adjacent to Union Station.*

***Tonight's reception is brought to you by Globe Manufacturing Company.***

# Thursday March 29, 2018

General sessions and meals will be in the Capitol Room on the lobby level.

Your Working Group assignment room will be identified in a separate document in your registration packet.

<b>7:00 – 8:00 AM</b>	<b>Breakfast</b> <i>This morning's meal is sponsored by LION, Inc. and DuPont.</i>	
<b>8:00 AM</b>	<b>Welcome and overview</b>	<b>Dr. Denise Smith</b> Skidmore College
	<b>NFFF's commitment to technology to improve firefighter health and safety</b>	<b>Ronald J. Siarnicki</b> National Fallen Firefighters Foundation
<b>8:30 AM</b>	<b>Keynote presentation: The future of wearable technology</b>	<b>Casey Grant</b> Fire Protection Research Foundation
<b>9:00 AM</b>	<b>Section 1: Enhancing the heat stress algorithm to combat heat stress</b> <ul style="list-style-type: none"><li>• <b>Physiological dangers of heat stress</b></li><li>• <b>Wearable technology for heat stress detection</b></li> <li>• <b>Heat stress Q and A</b></li></ul>	<b>Dr. Denise Smith</b> <b>Dr. Mark Buller</b> U.S. Army Research Institute of Environmental Medicine
<b>9:45 AM</b>	<b>Section 2: Potential use of EKG to detect arrhythmias and ischemia</b> <ul style="list-style-type: none"><li>• <b>Addressing sudden cardiovascular events In the fire service</b></li><li>• <b>Utility of single lead EKG detection</b></li> <li>• <b>EKG Q and A</b></li></ul>	<b>Dr. Denise Smith</b>  <b>Andrea Wilkinson</b> Skidmore College
<b>10:30 AM</b>	<b>Break</b>	
<b>10:45 AM</b>	<b>Working Groups: during the working group sessions, participants will discuss section presentation from three perspectives:</b> <ul style="list-style-type: none"><li>• <b>What are the promises for these technologies?</b></li><li>• <b>What are the biggest challenges for these technologies in the fire service?</b></li><li>• <b>How do we connect people, projects, and resources?</b></li></ul>	

<b>12:00 PM</b>	<b>Lunch</b>	
<b>1:00 PM</b>	<b>Section 3: Use of Physiological Status Monitoring (PSM) in the fire service</b>	
	<ul style="list-style-type: none"> <li>• <b>PSM: promises and problems</b></li> <li>• <b>Insights and perspectives related to fire service deployment</b></li> <li>• <b>PSM Q and A</b></li> </ul>	<p><b>Dr. Denise Smith</b>  <b>Chief Craig Haigh</b>  Hanover Park (IL)  Fire Department</p>
<b>2:00 PM</b>	<b>Section 4: Deployment of a low-cost particulate matter monitor</b>	
	<ul style="list-style-type: none"> <li>• <b>Cardiac and carcinogenic dangers of particulate matter</b></li> <li>• <b>Development of a novel, low-cost monitor</b></li> <li>• <b>Particulate monitoring Q and A</b></li> </ul>	<p><b>Dr. Denise Smith</b></p> <p><b>Dr. Aydogan Ozcan</b>  UCLA</p>
<b>2:45 PM</b>	<b>Break</b>	
	<i>This afternoon's break is brought to you by FireHUD.</i>	
<b>3:00 PM</b>	<b>Working Groups: during the working group sessions, participants will discuss section presentation from three perspectives:</b>	
	<ul style="list-style-type: none"> <li>• <b>What are the promises for these technologies?</b></li> <li>• <b>What are the biggest challenges for these Technologies in the fire service?</b></li> <li>• <b>How do we connect people, projects, and resources?</b></li> </ul>	
<b>4:30 PM</b>	<b>Conclusion of day for attendees</b>	
<b>4:40 PM</b>	<b>Facilitation team debriefing with planning team</b>	
	<i>Dinner tonight is on your own.</i>	

# Friday March 30, 2018

General sessions and meals will be in the Capitol Room on the lobby level.

Your Working Group assignment room will be identified in a separate document, in your registration packet.

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|------------------------|---|
| <b>7:00 – 8:00 AM</b>  | <b>Breakfast</b>  |
| <b>8:00 AM</b>         | <b>Review of completed work</b>   |
| <b>8:45 AM</b>         | <b>Working Groups (final assignments determined; integrate technology to support the fire service)</b>  |
| <b>10:00 AM</b>        | <b>Break</b>  |
| <b>10:15 AM</b>        | <b>Moving forward:</b> <ul style="list-style-type: none"><li>• <b>How do we advance health and safety technology in the fire service?</b></li><li>• <b>Identify strategies for technology development and for promoting technology adoption.</b></li><li>• <b>White paper format – what would be the most strategic presentation model?</b></li></ul> |
| <b>12:00 PM</b>        | <b>Summit concludes</b>   |
| <b>12:30 – 2:30 PM</b> | <b>FPRF Technical Panel workshop and luncheon (Thornton Room, 11<sup>th</sup> Floor)</b><br><i>Invitation only – sponsored by the Fire Protection Research Foundation</i>   |

*Funding for this program has been provided through FEMA's Grant Program Directorate for Assistance to Firefighters Grant Program – Fire Prevention and Safety Grants*



*And many thanks to the following companies for providing additional financial support for this event:*

