



# SFPE21

## Annual Conference & Expo

Baltimore, Maryland




Conference: Oct 17-19 | Seminars: Oct 20-22

### Pre-Conference Activities



Saturday, October 16, 2021	
9:00 – 5:30	Board of Directors Meeting (invitation only)
6:30 – 9:00	Board of Directors Dinner with Staff (invitation only)
Sunday, October 17, 2021	
8:00 – 11:00	Board of Directors Meeting (invitation only)
9:00 – 11:00	<b>Standing Committee Meetings</b> <ul style="list-style-type: none"> <li>Membership &amp; Chapter Engagement (CMC)</li> <li>Professional Qualifications (CPQ)</li> <li>Professional Development (CPD)</li> </ul>
10:00 – 5:00	Registration
12:00 – 5:00	Expo Setup
12:30-2:30	<b>Chapter Leadership Forum</b> <ul style="list-style-type: none"> <li>Welcome &amp; Introductions – Will Clay</li> <li>Chapter Resources &amp; Support – Eva Przygodzki</li> <li>Foundation Report – Peter Senez</li> <li>Using Chapter Evaluation Form as a Tool for Strategic Planning for Chapters – Ray Bizal</li> <li>Advancing Chapter Membership through Connection &amp; DEI Together presented by invited speaker Mariama Boney</li> <li>SWOT Break Out Session</li> </ul>
2:30-3:00	Ice Cream Social
3:00-5:00	<b>Annual Business Meeting (all invited)</b> <ul style="list-style-type: none"> <li>President's Report, Jack Poole</li> <li>CEO Report, Nicole Boston</li> <li>Treasurer's Report, Amanda Kimball</li> <li>Foundation's Report, Peter Senez</li> <li>RTM Report, Gregory Baker</li> <li>CPQ Report, Douglas Fisher</li> <li>CPD Report, Mark Fessenden</li> <li>CMC Report, William Koffel <ul style="list-style-type: none"> <li>Presentation of the Hats Off Awards <ul style="list-style-type: none"> <li>Sheila C. DeMand</li> <li>Joshua Greene</li> <li>David Grossman</li> <li>Francisco J. Joglar</li> <li>Jimmy A. Landmesser</li> <li>Brian Lukus</li> <li>James R. Quiter</li> </ul> </li> </ul> </li> </ul>

	○ Presentation of the Award for Chapter Excellence (ACE)
5:00 – 7:00	<b>President's Welcome Reception in Expo (all invited)</b>
8:30 – 10:00	Emerging Professionals Networking Event – Trivia & Ice Breaker Bingo


## Conference Day 1



Monday, October 18, 2021			
7:00 – 7:50	Continental Breakfast in Expo Sponsored by 		
8:00 – 8:15	<b>Opening &amp; Welcome Remarks</b> , Nicole Boston, SFPE CEO, Jack Poole, 2021 SFPE President		
8:15 – 9:00	<b>Finding a Voice for Fire Safety Progress</b> Stephen Kerber, Fire Safety Research Institute, U.L.		
9:00 – 9:45	<b>NIST World Trade Center Investigation Recommendations and Changes to Building Codes, Standards, and Practices</b> Jason Averill, Materials and Structural Systems Division, NIST		
9:45 – 10:30	Coffee Break in Expo Sponsored by 		
Breakout Tracks			
10:30 – 12:00	<b>Track A</b> <b>Fire Protection Systems</b> Location: Harborside C	<b>Track B</b> <b>Engineering for the Fire Service</b> Location: Laurel	<b>Track C</b> <b>Sponsored</b> Location: Kent
<i>Moderator</i>	<i>Scott Futrell</i>	<i>Gary Dominguez</i>	
10:30 – 11:00	<b>Risk Analysis for MNS – Requirements, Challenges, and a Case Study</b> Bill Koffel	<b>Performance-Based Structural Fire Engineering for Firefighter Safety</b> Ali Ashrafi	<b>Self-Regulating Variable Speed Fire Pump Unit. Better, Simpler and More Cost Effective</b> Jesse Baker 
11:00 – 11:30	<b>The Loss of the Density/Area Curves: What Have We Lost, What Have We Gained?</b> Ken Isman	<b>NFPA 13E: Recommended Practice for Fire Department Operations in Properties Protected by Sprinklers and Standpipe Systems</b> Frank Ellis	<b>Advanced Fire Alarm Connectivity</b> Brad Kappeler 

11:30 – 12:00	<b>Fire Pumps: Changes and Proposed Solutions for 2022 and Beyond</b> John Denhardt & Kevin Hall	<b>The Unsolved Mystery of the Coconut Grove Fire</b> Casey Grant	<b>Installation Flexibility within Storage Occupancies</b> Mark Fessenden 
12:00 – 1:30	Networking Style Lunch in Expo		
1:30 – 1:45	<b>Award Presentation</b> <ul style="list-style-type: none"><li>▪ <b>The Harold E. Nelson Service Award</b> - Mark E. Fessenden</li><li>▪ <b>The D. Peter Lund Award</b> - Kevin J. LaMalva</li><li>▪ <b>The Rolf H. Jensen Award for Outstanding Committee Award</b> - John A. Frank</li><li>▪ <b>The John J. Ahern President’s Award</b> - Douglas Fisher</li></ul>		
1:45 – 2:45	<b>Panel: Advancing the Use of Engineering Principles to Address the Challenges of Fire</b> <i>Moderator:</i> Chris Jelenewicz  <a href="#">A Proposed Probabilistic Methodology to Estimate Local Fire Exposures in a Structural Analysis</a> Brian Lattimer – Virginia Tech and Jonathan Hodges – JENSEN HUGHES  <a href="#">New SFPE Standard on Fire Scenarios for a Performance-Based Design</a> Charley Fleischmann – University of Canterbury  <a href="#">Development of a New SFPE Guide on Assessment of Fire Safety for Existing Building</a> Warren Bonisch – WJE Fire Protection/Life Safety		
<b>Breakout Tracks</b>			
2:45 – 4:15	<b>Track A</b> <b>Performance-Based Design in Action</b> Location: Harborside C	<b>Track B</b> <b>The Application of Fire Safety Codes and Standards</b> Location: Laurel	<b>Track C</b> <b>Sponsored</b> Location: Kent
<i>Moderator</i>	<i>Warren Bonisch</i>	<i>Steve Sheldon</i>	
2:45 – 3:15	<b>Occupant Tenability Assessment Approaches in Performance-Based Design</b> Jamie McAllister	<b>Code Requirements for Elevator Fire Protection: Fire Service Access Elevators Included</b> Ray Grill	<b>Technology and Code Updates Impacting Designs and Specifications</b> Jeff Merwin 
3:15 – 3:45	<b>Peer Review: The Gold Standard of Performance-Based Design</b> Brian Thompson	<b>The Impact of the Codes and Standards Seen through Data</b> Birgitte Messerschmidt	<b>Low Flow Attic Protection Scheme</b> Philip Gunning 
3:45 – 4:15	<b>Use-Neutral Tower – Adaptable Design for Evolving Real Estate</b> Robert Gerard & Kyle Johnson	<b>Balancing Fire Safety and Environment Priorities in Building and Fire Codes</b> Beth Tubbs	<b>Video Flame Detection Delivers Excellent Fire Protection without Compromise</b> Holland Smith 

4:15 – 4:45	Afternoon Break in Expo  Sponsored by 
4:45 – 5:30	<b>Fire Protection for the Developing World – Opportunities and Challenges for the Other 80%</b> Richard Walls, Stellenbosch University
5:30 – 6:30	<b>Fellows Presentation</b> <ul style="list-style-type: none"> <li>• Dennis J. Bessant</li> <li>• Raymond B. Bizal</li> <li>• Virginia R. Charter</li> <li>• Mark Hopkins</li> <li>• Jimmy Jönsson</li> <li>• Susan Lamont</li> <li>• John A. LeBlanc</li> <li>• Deborah L. Scott</li> <li>• Colleen A. Wade</li> </ul>
6:30 – 8:30	<b>Fellows Reception (Open to all attendees who RSVP in advance)</b>  Sponsored by 

## Conference Day 2

Tuesday, October 19, 2021	
6:30 – 8:00	Past President's Breakfast (invitation only)
7:00 – 7:50	Continental Breakfast in Expo  Sponsored by 
8:00 – 8:15	<b>Welcome &amp; SFPE Foundation Awards, Peter Senez, SFPE Foundation Chair</b> <ul style="list-style-type: none"> <li>▪ <b>The SFPE Foundation Jack Bono Award</b>- Roeland Bisschop, Peiyi Sun, Huichang Niu, Xinyan Huang</li> <li>▪ <b>The SFPE Foundation Student Scholar Award</b>- Xingyu Ren</li> <li>▪ <b>The Proulx Award</b>- Hossein Tavanarezaei</li> <li>▪ <b>Frederick W. Mowrer Global Scholar Award</b> - Anene Oguaka</li> <li>▪ <b>Arthur B. Guise Medal</b> - Pravinray D. Gandhi</li> </ul>
8:15 – 9:00	<b>The Arthur B. Guise Award Presentation</b> <b>Fire Protection: Road Travelled and More Opportunities</b> Pravinray D. Gandhi
9:00 – 9:30	<b>Your SFPE Foundation: Tackling Grand Challenges</b> Peter Senez, <i>SFPE Foundation Chair</i> Albert Simeoni, Worcester Polytechnic Institute

9:30 – 10:00	Coffee Break in Expo Sponsored by <div>MICROPACK FIRE &amp; GAS <small>A Consultium Group Company</small></div>		
Breakout Tracks			
10:00 – 11:30	<b>Track A</b> <b>Foundation Research</b> Location: Harborside C	<b>Track B</b> <b>Fire Behavior/Dynamics</b> Location: Laurel	<b>Track C</b> <b>Sponsored</b> Location: Kent
Moderator	Noah Ryder	Christina Francis	
10:00 –10:30	<b>The Jack Bono Award Presentation</b> <b>A Review of Battery Fires in Electric Vehicles</b> Roeland Bisschop	<b>Fire Investigation Lessons Learned from Examination of Seventeen Laboratory Controlled Compartment Fires</b> Andrew Cox	<b>Fire protection for Lithium-ion Battery Energy Storage Systems (BESS)</b> Wayne Aho, Jr. <div>SIEMENS</div>
10:30 – 11:00	<b>The Student Scholar Award Presentation</b> <b>Downstream Heating and Flow Dynamics of Inclined Fires</b> Xingyu Ren	<b>Outlining the Limitations of Flashover Correlations in Engineering Application</b> David Morrisset	<b>FSRI Research Update</b> Stephen Kerber <div></div>
11:00 – 11:30	<b>The Frederick W. Mowrer Award Presentation</b> <b>Fire Behaviour of Selected African Food Grains and Seeds in Bagged and Bulk Storages</b> Anene Oguaka	<b>Integrate BIM and FDS to Simulate and Assess the Fundamental Fire Behavior of CLT</b> Erica Fischer	<b>Multiple Threats, One Solution: Bridging the Gap between Fire and ENS</b> Ben Cooper <div></div>
11:30 – 12:30	Networking Style Lunch in Expo (Expo closes at the end of lunch)		
12:30 – 12:45	<b>Awards Presentations</b> <ul style="list-style-type: none"><li>▪ <b>The David A. Lucht Award</b> - Jose Torero</li><li>▪ <b>The John L. Bryan Mentoring Award</b> - Grunde Jomaas</li><li>▪ <b>The Margaret Law Award</b> - Colin S. Todd</li><li>▪ <b>Fire Person of the Year</b> - Jennifer Evans</li></ul>		
12:45 – 1:30	<b>Ensure Qualified People in the Fire Protection Engineering Community</b> Douglas Fisher, Fisher Engineering		
Breakout Tracks			
1:30 – 3:00	<b>Track A</b> <b>Energy Storage System &amp; Hazards</b> Location: Harborside C	<b>Track B</b> <b>Emerging Professional</b> Location: Kent	
Moderator	Bill Koffel	Dan Gorham	

1:30 – 2:00	<b>UL 9540 Tests of a Walk-In Lithium-Ion ESS Container Mock-Up: Considerations for Fire Protection Design and Emergency Response</b> Adam Barowy & Jack Regan	<b>Diversity, Equity, and Inclusion in Fire Protection</b> Lee Mullin	
2:00 – 2:30	<b>Lithium-Ion Battery ESS Failure</b> Mark McKinnon	<b>Getting involved in the Code and Standards Development Process</b> Brian O'Connor	
2:30– 3:00	<b>Modern Vehicle Fire Hazards in Parking Garages and Vehicle Carriers</b> Michael Klassen & Stephen Olenick	<b>Navigating the Career Lattice in Fire Protection Engineering</b> Aric Aumond	
3:00 – 3:30	Afternoon Break in Foyer Sponsored by 		
3:30 – 4:30	<b>Trends in Energy Storage System: Panel Discussion</b> Adam Barowy, Christina Francis, Moriel Kaplan		
4:30 – 5:00	<b>IGNITE® Session – 5 Under 35</b> <ul style="list-style-type: none"> <li>• Steven E. Dannaway</li> <li>• Gary Dominguez</li> <li>• Richard Emberley</li> <li>• Kevin R. Hall</li> <li>• Xinyan Huang</li> </ul>		
5:00 – 5:10	<b>Closing Remarks &amp; Invitation to 2022 Annual Conference and the WiFPE Event</b> Jack Poole & Beth Tubbs		
5:15– 7:00	<b>Celebrating Women in Fire Protection Engineering - Closing Reception (Open to all attendees who RSVP in advance)</b> Sponsored by 		

### Post-Conference Seminars & Activity

Room	Wednesday October 20	Thursday October 21	Friday October 22
Offsite – Beltsville, MD	<b>ATF Tour</b> (Limited Capacity)		
TBD	<b>Principles of Fire Protection Engineering</b> Instructor: TBA		
TBD	<b>Application of Fire Risk Assessment</b> Instructor: Bill Koffel		
TBD	<b>Sprinkler Design for the Engineer</b> Instructor: Scott Futrell & Kevin Hall		