

# Barrier Management Symposium

**Produced by**  
The Joint Commission  
American Society of Healthcare Engineers  
Underwriters Laboratories  
Firestop Contractors International Association



**Hosted By:**  
ASHE Central Arizona Chapter & Region 9



July 27, 2017  
Holiday Inn & Suites – Phoenix Airport North  
1515 N. 44<sup>th</sup> Street – Phoenix, AZ 85008

## **Barrier Management Symposium – Phoenix, AZ**

Produced by The Joint Commission, ASHE, UL & FCIA

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The Joint Commission, the American Society of Healthcare Engineers' (ASHE), ASHE Arizona Chapter & Region 9, Underwriters Laboratories (UL) and the Firestop Contractors International Association (FCIA) welcome you to a comprehensive and informative new symposium for healthcare engineering and healthcare professionals.

Fire and Smoke Barriers installed in buildings are living elements of the structure. They are there to protect healthcare building occupants and used for horizontal evacuation of areas to fire or smoke resistant zones. These barriers and their 'features' form Effective Compartmentation. Fire and Smoke Barrier Management Systems in building design and operations is critical to maximize property protection, minimize death and injury and facilitate entry and travel in structures for emergency responders.

This Barrier Management Symposium focuses on the Proper DIIM – Design, Installation, Inspection and Maintenance of Fire and Smoke Barriers that make Effective Compartmentation in Healthcare Facilities work at the time they are called upon by fire and smoke.

The program educates about testing that qualifies the products for use, code requirements, installation and inspection, then management and maintenance for ongoing reliability of the installed fire resistance rated and smoke resistant products. These products become SYSTEMS when they are properly 'DIIM'd. Video presentations and an explanation of how each design element is tested to assess compliance with standard and code requirements in addition to the technologies are all included in this Symposium.

The Symposium is designed to increase the awareness of the Healthcare Engineering Professional of the value Barrier Management Systems have while understanding the underlying keys to their long-term success.

Information gained from this symposium will allow you to:

- **Focus** - on technologies that have protected buildings for centuries.
- **Manage** – Manage the product and system evaluation, installation, inspection and maintenance of fire and smoke barrier components as a complete system. These systems are integrated to work together providing reliable building safety.
- **Improve** – the built environment for the healthcare facility that demand the best in fire and life safety through effective compartmentation.
- **Increase** - knowledge about how to purchase, evaluate and manage all effective compartmentation technologies

**Barrier Management Symposium – July 27, 2017 - Phoenix, AZ**  
**DRAFT Agenda a/o May 10, 2017 – Casual Dress**

<b>DATE</b>	<b>Topic</b>	<b>Speaker</b>
7:30 am – 8:00 am	Welcome Coffee	
8:00 am – 8:10 am	Welcome & Remarks Moderator Remarks	Nick Tedesco, CHC, (CASHE) - Central Arizona Society for Healthcare Engineering Bill McHugh, FCIA
8:10 am – 8:40 am	TJC Perspective 'Systems'	John Maurer, The Joint Commission
8:40 am - 9:30 am	Barrier Fundamentals	Lennon Peake, Koffel Associates, Representing FCIA – What are the barriers used for fire and smoke resistance? Code requirements?
9:30 am – 10:15 am	Fire Resistance Testing	Rich Walke – UL testing & certification, slides and video, of all components of fire resistance rated assemblies including the wall, ceiling and features for Fire & Smoke Barrier Continuity
10:15 am – 10:30 am	Break	
10:30 am - 11:15 am	Wallboard Fire Resistance	Nestor Sanchez, USG – Rep. Gypsum Industry. Gypsum wallboard panels, Type X, C, Regular Core Systems
11:15 am – 11:45 pm	Fire Rated Glazing	Bill McHugh, FCIA & Rich Walke, UL. Fire Rated Glazing
11:45 am – 12:30 pm	LUNCH	
12:30 pm – 1:15 pm	Fire & Smoke Dampers	Marc Sorge, Greenheck, Inc., representing the Fire Damper Industry. Fire, Smoke, Radiation, Fire/Smoke Dampers defined.
1:15 pm - 1:30 pm	Break	
1:30 pm - 2:30 pm	Firestopping Penetrations and Joints	Bill McHugh – Firestop Contractors International Association (FCIA). Firestopping is complicated, but reasonable to understand. This session provides system evaluation skills.
2:30 pm – 2:45 pm	Break	
2:45 pm- 3:45 pm	Swinging Fire Doors & Hardware	Laura Frye, Door and Hardware Institute's Foundation for Door Safety and Security. Swinging doors need to work. Pictures of good and badly maintained fire doors show building safety risk.
3:45 pm- 4:30 pm	Barrier Management Systems, Documentation	John Maurer, The Joint Commission, Bill McHugh, FCIA. Barriers need to be surveyed to keep continuous protection. Learn best practices.
4:30 pm – 4:45 pm	Barrier Management Symposium Wrap-up	Bill McHugh, FCIA John Maurer, The Joint Commission Nick Tedesco, CASHE
5:00 pm	After Event Mixer	Anyone interested, join us after for a refreshment. Cash bar. Location – "Burger Theory" – North side of Holiday Inn

## **Barrier Management Symposium**

### ***Symposium Presenter Bios & Contacts – In Speaking Order***

#### **John Maurer**

John Maurer is currently an Engineer in the Department of Engineering at The Joint Commission. In this role, he provides support for the Environment of Care, Emergency Management, and Life Safety standards including interpretation of the standards, review of survey reports, Intracycle Monitoring conference calls, faculty for educational programs, and survey activity. He is also a member of the emergency management team providing relevant information to the healthcare community, and works closely with the Joint Commission's Office of Quality and Patient Safety.

Mr. Maurer came to The Joint Commission in 2007. He has over 20 years experience in facilities management across three hospitals in the Chicago area ranging from 87 to 250 beds (most recently while serving as a Life Safety Code Surveyor). In addition to normal facilities functions, Mr. Maurer was responsible for several construction projects, energy reduction and efficiency initiatives, property management, and safety programs.

Mr. Maurer is a Certified Healthcare Facilities Manager (CHFM), a Certified Healthcare Safety Professional (CHSP), and a member of the National Fire Protection Association (NFPA), serving on three technical committees for NFPA 99. He was vice chair of the emergency management committee for the 2018 Facilities Guidelines Institute's (FGI) Guidelines for Design and Construction of Hospitals. In addition, he is a member of the American Society for Healthcare Engineering (ASHE) with Senior (SASHE) status serving on the ASHE Board of Directors for the 2016-17 term. He is also a member of the Healthcare Engineers Society of Northern Illinois (HESNI) serving on its Board of Directors from 2008 – 2015, as President for 2010 and 2011, providing education, development, and support for facility professionals.

Mr. Maurer received his Bachelor's degree in Business Management from Olivet Nazarene University in Bourbonnais, IL.

*John Maurer, SASHE, CHFM, CHSP  
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#### **Lennon Peake, Koffel Associates, Inc.**

Lennon Peake is a manager of Koffel Associates, a fire protection engineering and code consulting firm headquartered in Columbia, Maryland. He has extensive experience in health care occupancy code requirements and CMS and Joint Commission licensure and accreditation surveys. He serves as and ASHE Code Advocacy Liaison, subject matter expert for Just Ask ASHE and represents ASHE on the NFPA 10 *Standard for Portable Fire Extinguishers* technical committee.

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### **Rich Walke, Regulatory Services, UL LLC**

Richard N. Walke is a Senior Regulatory Engineer with the Regulatory Services Department of UL, LLC (UL) in Northbrook, IL. He has been actively engaged in engineering and research for 35+ years. Prior to assuming responsibility in the Regulatory Services Department, he was responsible for fire protection services provided to the architectural and contracting communities. This included responding to day to day inquiries, providing engineering judgments, providing educational seminars, developing internet based training programs, and improving the format of information contained in the UL Directories and website.

Prior to assuming responsibility for the architectural services area, Mr. Walke provided the supervisory and review activities of engineering investigations conducted on fire resistive construction, through-penetration firestop systems, joint systems, fire resistive electrical outlet boxes, electrical circuit protections systems, fire resistive grease and air ducts systems, interior finish building materials, air duct materials and solid fuel heating appliances.

Prior to undertaking supervisory positions, Mr. Walke was actively involved in the conduct of engineering investigations on interior finish building materials, electrical cable, air duct materials and solid fuel appliances.

Mr. Walke received a Bachelor of Science Degree in Civil Engineering from Valparaiso University in 1976. He is currently a Certified Quality Engineering with the American Society for Quality Control and a UL LLC 'Distinguished Member of Technical Staff'.

*Rich Walke, Sr. Regulatory Engineer - UL Regulatory Services - UL LLC  
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### **Nestor Sanchez, USG Corporation Fire Rated Walls, Ceilings, Floor/Ceiling Assemblies**

Nestor has been with USG Corp. since 1994. His area of expertise at USG includes the evaluation of products and systems regarding their performance under fire conditions. This includes evaluation of USG Products and systems through testing and analysis in accordance with ASTM E84, E119, E136, and E814, UL 2079 and International Standards. Specific evaluations include the surface burning characteristics and combustibility of interior finishes, and the fire resistance of walls, floor and roof-ceiling assemblies, beams, columns, through penetration fire stop systems, construction joint and curtain wall systems.

Recently, Nestor has been a regular attendee at the International Code Council Building and Fire Code Development Hearings. He is also very active at ICC's Evaluation Services. Over the past several years, he has been relied upon by contractors, architects and building officials in matters related to fire and sound with USG Products. Prior to USG, he served in various roles at Underwriters Laboratories, Inc. since 1978, attaining Engineering Group Leader positions. He has a BS in Civil Engineering from Universidad de los Andes, Bogota, Columbia and an MBA from Lake Forest School of Management.

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## **Marc Sorge, Damper Products - Greenheck Fan Corporation**

Marc Sorge is the product manager for the Dampers business unit at Greenheck. Marc is a member of ASHRAE, AHRI, NFPA, and AMCA. Marc has over 14 years of experience in sales, marketing, and application at Greenheck.

He began his career working with Energy Recovery, Make Up Air and Industrial Space Heating Industries focusing on energy efficient products and systems. Currently Marc's responsibilities include managing the life safety damper product line along with supporting Greenheck's mechanical representative distribution network.

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## **Bill McHugh, Executive Director Firestop Contractors International Association (FCIA)**

Bill has served as Executive Director of the FCIA since it's inception in 1998. FCIA promotes the proper design, installation, inspection and maintenance of firestopping and effective compartmentation through UL's Qualified Firestop Contractor Program & FM 4991 Approval of Firestop Contractors, ASTM E 2174 / ASTM E 2393 Standards for the Inspection of Firestop Penetration and Joint Systems, IAS AC 291 Accredited Firestop Special Inspection Agencies, Maintenance to International Fire Code and NFPA 101 and FCIA's Firestop Manual of Practice.

Bill has spoken about firestopping and effective compartmentation in North America and the Middle East to ASHE Chapters, Construction Specifications Institute, Construction Specifications Canada, International Code Council, NFPA, building/fire code officials and many other groups. He has written numerous articles for and is publisher of FCIA's Life Safety Digest Magazine. His work has also been published in The Construction Specifier, Construction Specifications Canada, the Association of Licensed Architects, Maintenance Solutions, and other leading journals. He is publisher of Life Safety Digest, the magazine of Effective Compartmentation. Bill is a past Institute Director to the Board of Directors of the Construction Specifications Institute (CSI), participates at ASTM as a task group chair, serves on the International Accreditation Services Board of Directors and is active at the International Code Council Code Development Process and at NFPA on the Fire Protection Features Committee.

*Bill McHugh, FCIA Executive Director  
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## **Laura Frye, Door Security and Safety Foundation**

Laura Frye, AHC, CSI, CSS, FDAI is the Director of Certification for the Door & Hardware Institute (DHI), a Technical Director for the Door Security and Safety Foundation (DSSF), a Fire & Egress Door Assembly Inspector, and a self-proclaimed "Hardware Nerd".

She has nearly 30 years' experience in the Door, Frame and Hardware Industry. Laura spent the first 18 years in door distribution where she ran the Engineering Department for a large multi-branch distributor. She was involved for the last 11 years in manufacturing where she headed up the Specification Team for Stanley Security, leading a team of 50 door specification writers in the US and Canada.

Laura is an instructor for DHI on both the National and Local levels teaching Fire Door and Egress Assembly Inspection as well as other advance curricula. She presents and advocates on behalf of the Foundation promoting secure and safe openings that enhance life safety through awareness and education to the building design, code authority, and facility management communities.

*Laura Frye, DHI/DSSF  
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**~ BARRIER MANAGEMENT SYMPOSIUM NOTES ~**