

FCIA 

NFCA[®]

EXISTING BUILDING FIRE-RESISTANCE SYMPOSIUM

**20-22
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FCIA's Board of Directors is a very diverse and passionate group of Contractors. Each person has chosen to give back to the Association through serving on the Board, participating on Committee(s), and more.

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EXECUTIVE DIRECTOR

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2023 NFCA BOARD OF DIRECTORS

NFCA's Board of Directors meets face-to-face and on teleconferences and webinars covering important industry and Association issues.

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A WORD FROM THE FCIA & NFCA BOARD PRESIDENTS

Welcome to the FCIA-NFCA Existing Building Fire-Resistance Symposium Canada '23, what we hope is the first of many collaborations between our Associations.

First off, thank you for being a part of the FCIA and/or NFCA stories through membership, friendship, and support. By being a part of these organizations, not only are you showing your dedication and commitment to fire and life safety, but you are also supporting the fire-resistance-rated structural and effective compartmentation industries that truly can save lives.

We are honored to be serving you as the 2023 FCIA and NFCA Board Presidents.

Fire-resistance-rated structural and effective compartmentation is something we are passionate about, something we believe in. Despite the important role fire-resistance plays in fire and life safety, there are still many people who know very little about the discipline. It is because of this that we have dedicated our lives to learning, studying, teaching, and growing the fire-resistance industries.

We believe that the futures of the structural fire-resistance industries lie in education and awareness. We are passionate about educating as many people as we possibly can. Both groups accomplish this through the FCIA Education Program (FEP), the NFCA Handbook of Fireproofing Knowledge & Education Programs, educational events such as this one, and more. The more people that fully understand why fire-resistance-rated structural and effective compartmentation needs to be designed, installed, inspected, and maintained properly, the better chance we have at effectively protecting buildings and the lives and contents inside.

If you want to make a difference, we challenge you to become part of a FCIA or NFCA Committee or the Board of Directors. It takes the next generation to shape our industries and Associations, supporting fire-resistance-rated structural and effective compartmentation, for us to continue the vital work that we do.

We also want to thank all the trailblazers that came before us, including a special "Thank you" to all those who have served as either a FCIA or NFCA Board President and on the Board of Directors. There are so many people that have dedicated so much of their time and energy to build the industries we have today. Additionally, we want to thank Bill McHugh and his amazing team for all they do for all of us. We are truly honored to have the opportunity to work beside this fine group of people.

In closing, we are excited for what the future has in store! FCIA and NFCA both have so many exciting events on the calendar, we look forward to meeting you in-person at one of our amazing events. You don't want to miss all the great content available in 2023 and 2024!

Thank you all for the continued support. We would not be able to have such successful and impactful organizations without each one of you!!

Enjoy the event, and thank you for your commitment to fire and life safety!



Tyler Ferguson

Tyler Ferguson, 2023 FCIA Board President

M. Stephenson

Mathew Stephenson, 2023 NFCA Board President



FCIA & NFCA COMMITTEES NEED YOU...(TO JOIN AND GET INVOLVED)

FCIA & NFCA Committees are comprised of Member volunteers who work together on various pieces of Association business, from Codes and Standards development to Marketing outreach and more. This collaboration is how we gain industry consensus on issues related to the improvement of fire and life safety in buildings around the globe and how we create opportunities for the growth of our industry.

Consider volunteering your time and talents with one of the following Committees. Contact the Committee Chair(s), cathy@FCIA.org, or kriston@nfca-online.org for additional information or to inquire about joining a Committee.

FCIA COMMITTEES

ACCREDITATION COMMITTEE

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FCIA COMMITTEES *continued*

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TE TASK GROUP: FCIA FIRESTOP MANUAL OF PRACTICE (MOP)

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"This Association is your Association! Our job is to help you become more informed and to ultimately have more success in this important fire-resistance industry."



Mathew Stephenson
2023 NFCA Board President



WHAT'S ON THE AGENDA?

PRE-REGISTRATION REQUIRED

FCIA Education for the Firestop Exams Sessions help FCIA Members attain and maintain FM 4991 Approved or ULC Qualified Firestop DRI status, Firestop Inspectors to prove competence to AHJ's or International Accreditation Services IAS AC 291 Special Inspection Agency responsible individual status.

All times listed are in EDT.

WEDNESDAY, SEPTEMBER 20, 2023

NETWORK (2ND FLOOR)

- 7:30 am - 12:00 pm Firestop Exam Registration Open
- 7:30 am - 8:00 am Continental Breakfast for Quality Management System and Firestop Exam Education Session Attendees
- 8:00 am - 10:00 am FCIA Education for the FM & ULC Firestop Exams
Bill McHugh, FCIA | Rich Walke, CTI
- 10:00 am - 10:15 am Break
- 10:15 am - 11:15 am FCIA Education for the FM & ULC Firestop Exams, continued
- 11:15 am - 12:30 pm Quality Management System Manual Development Education
Brian Bray, UL Solutions | Bill McHugh, FCIA | Rich Walke, CTI
- 12:30 pm - 1:00 pm Luncheon
- 1:00 pm - 4:00 pm FM & ULC Firestop Exam for DRI Candidates & Inspection Personnel

Note: The ULC Firestop Exam is an OPEN BOOK exam. ULC Exam Participants MUST provide their own copy of the FCIA Manual of Practice. The ULC Addendum covers questions specific to Canada. The FM Firestop Exam DOES NOT allow use of the MOP during the exam.

"I believe that the future of the firestopping industry lies in education and awareness. I am passionate about educating as many people as we possibly can. The more people that fully understand why firestopping needs to be installed properly, the better chance we have at continuing to push this profession in a positive direction."

Tyler Ferguson
Tyler Ferguson
2023 FCIA Board President



PRE-REGISTRATION REQUIRED

CANADA '23 brings together industry experts and firestop professionals for instructive education and insights on fire and life safety to drive the progress of the fire-resistance-rated and smoke-resistant industries. Here, we'll tie together progressive ideas with actionable strategies to ensure safer buildings throughout Canada.

All times listed are in EDT.

THURSDAY, SEPTEMBER 21, 2023

CELTIC BALLROOM (LOWER LEVEL)

- | | |
|---------------------|---|
| 7:30 am – 4:00 pm | Symposium Registration Open |
| 7:30 am – 8:00 am | Continental Breakfast |
| 8:00 am – 8:30 am | FCIA & NFCA: The Visions, The Missions, The Associations
<i>Bill McHugh, FCIA & NFCA</i> |
| 8:30 am - 9:30 am | Structural Fire-Resistance, Fire-Separations, Firestopping, & Code Requirements
<i>John Dalton, P.E., GCP Bill McHugh, FCIA & NFCA Rich Walke, CTI</i> |
| 9:30 am - 9:45 am | Break |
| 9:45 am – 10:30 am | NRC and Structural Fire-Resistance
<i>André Laroche, NRC</i> |
| 10:30 am – 10:45 am | Break |
| 10:45 am - 11:45 am | Fire-Resistance Installation & Inspection
<i>Brian Bray, UL Solutions Bill McHugh, FCIA & NFCA</i> |
| 11:45 am - 12:30 pm | Luncheon
<i>Sponsored by Aries Contracting, Inc.</i> |
| 12:30 pm - 1:30 pm | Perimeter Fire Containment
<i>Kevin Hyland, UL Solutions Rich Walke, CTI</i> |
| 1:30 pm - 2:30 pm | MWT/CLT & Fire-Resistance: Can This Work?
<i>Kevin Hyland, UL Solutions Julio Lopes, STI Matthew Winston, HILTI</i> |
| 2:30 pm - 2:45 pm | Break |
| 2:45 pm - 3:45 pm | Firestopping Basics for Combustible Pipes
<i>Julio Lopes, STI Scott Milburn, Aquatherm Matthew Winston, HILTI Kevin Yong-Ping, P.Eng., IPEX Inc.</i> |

By entering and your presence here, you consent to be photographed, filmed, and/or otherwise recorded. Your entry constitutes your consent to such photography, filming, and/or recording and allows Firestop Contractors International Association (FCIA) and/or National Fireproofing Contractors Association (NFCA), their licensees, assigns, successors in interest, and legal representation the irrevocable right to any use, in any and all media throughout the universe in perpetuity, or your appearance, voice, and name for any purpose whatsoever in connection with the production of the FCIA-NFCA Existing Building Fire-Resistance Symposium Canada, CANADA '23.



WHAT'S ON THE AGENDA?

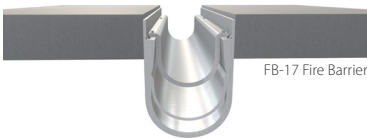
- 3:45 pm - 4:00 pm Break
- 4:00 pm - 5:00 pm **Maintaining Protection: Best Practices for Facility Directors**
Bill McHugh, FCIA & NFCA
- 5:00 pm Closing Remarks

FRIDAY, SEPTEMBER 22, 2023

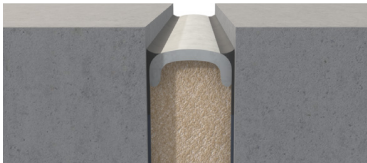
HOTEL LOBBY

- 8:45 am - 9:00 am Meet in Hotel Lobby, Board Buses
- 9:15 am Depart Hotel for NRC Fire Test Lab Facility Tour
- 10:00 am - 12:00 pm **NRC Fire Test Laboratory Facility Tour**
1200 Montreal Road, Ottawa, ON
- 12:00 pm - 12:30 pm Boxed Lunch
- 12:30 pm - 1:30 pm Board Buses and Return to Brookstreet Hotel

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WEDNESDAY, SEPTEMBER 20, 2023

8:00 am - 11:15 am

FCIA Education for the FM & UL Firestop Exams

Bill McHugh, FCIA | Rich Walke, CTI

The FM & ULC Firestop Exams are based on FCIA's Firestop Manual of Practice (MOP), the FM & UL program guides, the Canadian supplement, and systems selection and analysis. These exams are used for contractor personnel to become FM 4991 Approved Contractor and ULC Qualified Contractor Program DRIs. For Special Inspectors, passing the exam proves firestopping competency to the Authority Having Jurisdiction (AHJ), required by the IBC's Chapter 17. Passing an exam is also a requirement in IAS AC 291 for the Inspector to become a Responsible Person.

The FCIA Education for the FM & UL Firestop Exam education sessions help prepare individuals and support individual

preparation for these rigorous exams, further strengthening and developing firestopping knowledge.

*This program IS NO SUBSTITUTE for reading FCIA's Firestop Manual of Practice and studying the FM & UL program guides and systems selection and analysis before the exams.

11:15 am - 12:30 pm

Quality Management System Manual Development Education

Brian Bray, UL Solutions | Bill McHugh, FCIA | Rich Walke, CTI

This session takes an in-depth look at the Quality Management System Manual requirements for the FM 4991 Approved, ULC Qualified Firestop Contractor, and IAS AC 291 Accreditation programs. The session also provides tips and a framework for structuring and writing a comprehensive QMS Manual.

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THURSDAY, SEPTEMBER 21, 2023

8:00 am - 8:30 am

FCIA & NFCA: The Visions, The Missions, The Associations

Bill McHugh, FCIA & NFCA

You've heard of FCIA and NFCA, maybe you're even a new member, but what exactly do the Firestop Contractors International Association (FCIA) and National Fireproofing Contractors Association (NFCA) do?

In this session, you'll learn about the origins of the organizations, what the missions and guiding principles are, and how both groups advocate and work to further the fire and life safety industries.

8:30 am - 9:30 am

Structural Fire-Resistance, Fire-Separations, Firestopping, & Code Requirements

John Dalton, GCP | Bill McHugh, FCIA & NFCA | Rich Walke, CTI

Fire-Resistance, both structural and compartmentation, is an important part of an effective fire safety plan. Fire testing in accordance with ULC-S101 and installation per the manufacturer's installation instructions determines fire-resistance ratings - a key to fire protection.

This session takes an in-depth look at why structural fire-resistance and effective compartmentation is critical protection in buildings.

9:45 am - 10:30 am

NRC & Structural Fire-Resistance

André Laroche, NRC

The National Research Council (NRC) of Canada is a world-renown organization in egress, fire-resistance, roofing, and many other construction disciplines.

This session focuses on the changes that were introduced with the 2020 edition of the National Model Codes and those proposals

currently under review for the 2025 edition. It will provide a brief description of the problem and rationale why the changes were developed.

The presentation will also include a brief overview of the revised code development system under which the National Model Codes will be developed in the future, as well as any potential outstanding items related to fire-resistance that may lead to further revisions.

10:45 am - 11:45 am

Fire-Resistance Installation & Inspection

Brian Bray, UL Solutions | Bill McHugh, FCIA & NFCA

This session looks at the UL-ULC Qualified Firestop and Fireproofing Contractor Programs and key management system requirements.

The session also takes a high-level look at firestopping and fireproofing inspection and why it makes sense that the NBCC should require inspection.

12:30 pm - 1:30 pm

Perimeter Fire Containment

Kevin Hyland, UL Solutions | Rich Walke, CTI

This program focuses on perimeter fire-containment systems, including the fire test standards developments over the years, code requirements, advantages, and disadvantages of configurations. We'll take a particularly close look at the incorporation of ASTM E2307 into CAN/ULC-S115, *Standard Method of Fire Tests of Firestop Systems*.

1:30 pm - 2:30 pm

MWT/CLT & Fire-Resistance: Can This Work?

Kevin Hyland, UL Solutions | Julio Lopes, STI | Matthew Winston, HILTI

The evolution of Mass Wood Timber (MWT) and Cross-Laminated Timber (CLT) buildings has driven code changes and interest in the construction industry. The result is that MWT/CLT buildings are growing in number,



accompanied by the ability to go higher than ever before. In Canada, there is anticipation for formal adoption of Encapsulated Mass Timber Construction (EMTC) within the National Building Code of Canada.

This presentation looks at the efforts made to address one aspect of fire protection in MWT/CLT buildings: fire-resistance.

2:45 pm - 3:45 pm

Firestopping Basics for Combustible Pipes

Julio Lopes, STI | Scott Milburn, Aquatherm | Matthew Winston, HILTI | Kevin Yong-Ping, P.Eng., IPEX, Inc.

Combustible pipes are being used with increasing regularity in the construction industry. But there are obvious limitations to properly firestopping these penetrations. Hear from this manufacturer panel as they discuss proper firestop installation practices, problem situations, solutions, and more.

4:00 pm - 5:00 pm

Maintaining Protection: Best Practices for Facility Directors

Bill McHugh, FCIA & NFCA

The National Fire Code of Canada, the International Fire Code, the NFPA 1 Fire Code, the NFPA 101 Life Safety Code, and other Fire Codes have requirements for maintaining fire-resistance protection in existing buildings. To build a program that maintains structural fire-resistance protection, documentation of the built systems is needed as the building is handed over to the building owner and manager. This means Division 1 of Specifications must communicate what's needed.

This session covers the Code requirements for maintaining protection of structural fire-resistance in existing buildings, including an Inventory of Fire-Resistance-Rated new and archaic assemblies. The session also addresses Building Owner and Manager requirements and responsibilities for maintaining protection of these installed barriers as required by worldwide fire codes.



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Brian Bray, Lead Field Specialist



Brian Bray is currently working for UL Solutions as a Lead Field Specialist conducting Factory and Quality System Audits. Involved in Firestop review and certification for the ULC Firestop program, he has international experience in third party assessment and pre-contract reviews, as well as experience in conducting, implementing, and executing sampling plans for the destructive and reliability testing for the high frequency telecom market.

Brian has been working in the Quality and ISO certification field for the past 33 years as both an internal/external lead auditor in North America/Europe. Senior member of ASQ (American Standard of Quality).

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John Dalton, P.E., Technical Service Manager for Fire Protection Products



John Dalton, P.E. has almost 20 years' experience in the fire protection field, dealing primarily with the protection of structural steel, concrete, and thermal barriers for foamed plastic.

John is a principal committee member of the NFPA 502 Standard for Road Tunnels, Bridges, and Other Limited Access Highways Committee that details the fire protection and fire life safety requirements for limited access highways, road tunnels, bridges, elevated highways, depressed highways, and roadways that are located beneath air-right structures. He is Task Group Chair of the ASTM E6.21 Committee that oversees Standards related to the testing of in-place fireproofing.

John is a licensed Fire Protection Engineer, a Member of the Institute of Fire Protection Engineers, an NFPA Certified Fire Protection Specialist, and an ICC Certified Special Inspector of spray-applied materials. John has a B.S in Chemistry and Mathematics and a Graduate Diploma in Industrial Chemistry. He is the Technical Service Manager for Fire Protection Products at GCP Applied Technologies (formerly W. R. Grace) and he resides in Massachusetts.

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Kevin Hyland, Principal Engineer (PDE) - Fire-Resistance & Containment



Kevin Hyland is UL Solutions' Principal Engineer for Fire-Resistance and Containment within the Built Environment. This role includes responsibilities for fire-rated floor-ceiling and fire-rated walls (UL263 / ASTM E119 / ISO 834), through-penetration firestops (UL1479), joint systems (UL 2079), and fire-resistive materials (SFRM / IFRM). He also represents UL Solutions on many Standards Committees, including UL-ULC, ASTM, and ISO, along with key memberships within industry Associations.

Kevin has been with UL Solutions for 25 years, with 21 of those years dedicated to managing some of UL Solutions' more complex large-scale fire certification projects.

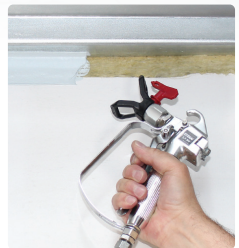
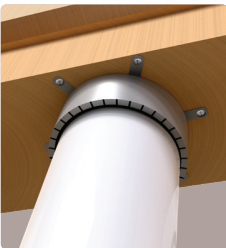
He holds a Bachelor of Science in General Engineering from University of Illinois Urbana-Champaign. He is based out of UL Solutions' Northbrook, IL USA office.

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André Laroche, Eng., Manager Regulatory Solutions, Codes Canada

André Laroche is the Manager of Regulatory Solutions, supporting the review of the National Model Codes (i.e. National Building Code, National Fire Code, National Plumbing Code, National Energy Code for Buildings, and National Farm Building Code) with Codes Canada at the National Research Council, Construction Research Centre. He leads technical support to the Canadian Board for Harmonized Construction Codes since 2006.

After graduating as a Mechanical Engineer in 1988, he became a Principal Engineer for the design and manufacturing of refrigeration equipment for delivery trucks and warehouses. He then supervised the construction of two manufacturing plants of value-added lumber products (finger-jointed and upholstery frame lumber) and worked as a Project Engineer for a sprinkler contractor. Before joining NRC, Mr. Laroche acted as a Fire Engineer Consultant for FM Global, where he specialized in dust hazards, hydro-electric power plants, aluminum smelters, textiles, and the plastic industry.

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Julio Lopes, CFPS, Director of Engineering Services

Julio Lopes is a 2001 graduate from Rutgers University College of Engineering with a degree in Industrial and Systems Engineering. Mr. Lopes is a Certified Fire Protection Specialist (CFPS), a certification provided by the NFPA Certification Department in the U.S.A.

During his 21-year career he has served in various technical roles for Specified Technologies Inc. Mr. Lopes has spent considerable time providing technical support, on product development, and on fire testing and certification to support projects on land, marine, and off-shore industries across the globe.

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Bill McHugh, Executive Director



Bill McHugh is the Executive Director of the Firestop Contractors International Association (FCIA) and National Fireproofing Contractors Association (NFCA). He has been in the construction industry for 40+ years specializing in fire-resistance, roofing, and waterproofing.

Bill participates in the Code and Standards Development processes at NFPA, ICC, ASTM, and others. He has served on the ICC's 'Fire Safety' Code Development Committee, serves on the Fire Protection Features Committee at NFPA, and is a past member of the IAS Board of Directors. He is the organizer and moderator for the ASHE/TJC/FCIA/UL Barrier Management Symposiums and is a past Institute Director, Chapter, and Region President at the Construction Specifications Institute.

Bill is the principal author of the FCIA Firestop Manual of Practice and publisher of *Life Safety Digest*, *the Magazine of Effective Compartmentation*. He also speaks at various conferences, webinars, and symposiums around the world.

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Scott Milburn, Applications Engineer



Scott Milburn received his BS in Mechanical Engineering from Brigham Young University.

He currently works for Aquatherm, a manufacturer of polypropylene piping systems used in plumbing, hydronic, RO/DI and chemical process systems. He has worked at Aquatherm for a total of 9 years, with the past 5 holding the position of Applications Engineer.

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MEET THE FACULTY



Rich Walke, Technical Director

Rich Walke is the Technical Director of Creative Technology Inc., providing consulting and training services for the fire protection and code enforcement communities, including The McHugh Company and the Firestop Contractors International Association.

Previously, Rich had been employed by UL for 43 years, focusing on fire-resistance-rated construction and the protection of breaches in those assemblies. During that time, Rich was involved in testing, standards development, code development, and providing technical assistance and training to architects, engineers, contractors and code officials.

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Matthew Winston, Testing and Approvals Engineer

Matt Winston is actively engaged in the field of fire protection engineering, currently holds the certified fire protection specialist (CFPS) designation and has passed the P.E. exam in Fire Protection Engineering. He has completed an M.S. in Fire Protection Engineering at California Polytechnic State University, San Luis Obispo, and a B.S. in Engineering Sciences from California State University Bakersfield.

Matthew began a career in fire protection by volunteering as a fire fighter in California. He went on to work for Jorgensen Company where he gained experience with fire suppression systems, fire alarm systems, and fire extinguishers.

Matthew has been with Hilti North America for six years and currently works as the Testing and Approvals Engineer for firestops.

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Kevin Yong-Ping, P.Eng., Regional Engineer

Kevin Yong-Ping is the IPEX Regional Engineer for Ontario. His primary role is supporting the technical sale of thermoplastic piping by educating engineers, contractors, and code officials on piping topics relevant to their field.

He has presented at various OPIA chapters, local municipalities across Canada, the OBOA, the Plumbing Advisory Council and the CIPH IPVF sessions.

Prior to IPEX, he worked in the firestop industry for 10 years for a firestop manufacturer and for an engineering design firm for 5 years.

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