The FCIA Virtual ‘DIIM’ Symposium Canada is the premier event focused on the fire-resistance-rated and smoke-resistance-rated industry in Canada. The event features three-days of education focused on the various elements of firestopping, including the ‘DIIM’ of Firestopping - ‘D’esign, ‘I’nstallation, ‘I’nspection, and ‘M’aintenance – as specifically related to the firestop industry in Canada. Due to COVID-19, the FCIA Virtual ‘DIIM’ Symposium Canada will be delivered via electronic platform.

**REGISTRATION REQUIRED**

**Wednesday, September 30, 2020**

10:00 am – 10:30 am CDT  
**FCIA President’s Welcome & Association Comments**  
*Ben Urcavich, FCIA 2020 President | Bill McHugh, FCIA Executive Director*

10:30 am – 11:30 am CDT  
**FCIA’s ‘DIIM’: Firestop 101, An Executive Summary**  
*Bill McHugh, FCIA*

FCIA’s Proper ‘D’esign, ‘I’nstallation, ‘I’nspection and ‘M’aintenance (‘DIIM’) Program has been presented worldwide to Building Officials, Fire Marshals, Architects and Specifiers, Specialty Firestop Installation Contractors, and Consultants. In this session, hear about tested and listed systems; installation standards such as the FM 4991, Standard for the Approval of Firestop Contractors, the ULC Qualified Firestop Contractor Program, and the new UL Master Audit Certificate of Compliance Program; inspection to ASTM E 2174 and ASTM E 2393 Firestop Inspection Standards and what qualifications are required; and finally, learn about maintaining installed firestopping in existing buildings.

11:30 am – 12:15 pm CDT  
**Circuit Integrity and Fuel-like Protection AND How to Avoid This Common Firestop Deficiency**  
*Eric De Amorim, STI*

This presentation explains the code requirements and ASTM standards for circuit integrity and fuel-like protection applications. We will explore the difference between grease duct wrap vs endothermic wrap, as well as will cover the intrinsic installation methods that will guarantee a smooth and efficient installation / inspection. Finally, we will address the second most common firestop deficiency in Canada and the importance of maintaining proper joint area at the Head-of-Wall using filler mineral wool strips.

12:15 pm – 1:00 pm CDT  
**National Building Code of Canada & Firestopping – Where Are We At?**  
*Andre Laroche, NRC*

The National Building Code of Canada includes prescriptive requirements for firestopping. The requirements have slowly evolved over time since their first insertion into the Code in the late 70’s/early 80’s. Learn about how firestopping is achieved in Canada, including proposed changes considered for the next edition of the NBC, and outstanding issues still under discussion.

1:00 pm – 1:45 pm CDT  
**Firestopping: Effective Compartmentation & Code Compliance**  
*Betty Turowec, 3M*

Fire protection is a balanced design, involving detection, suppression, and containment. This session will focus on through-penetration firestop systems and their role in achieving effective compartmentation. Proper installation of firestop systems ensures fire-rated separations maintain continuity, protecting against the passage of fire, hot gases, and toxic smoke. Fulfilling these requirements is mandated by the National Building Code of Canada (NBC) to safeguard infrastructure, and more importantly, the people within.
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**REGISTRATION REQUIRED**

**Thursday, October 1, 2020**

10:00 am – 11:00 am CDT  
**NBC/NFC Fire-Resistance & Fire Separations Code Requirements**  
*Tony Crimi, Member, NRC Committee on Fire Protection, AC Consulting Solutions, Inc.*  
Fire-separations are continuous until they are penetrated by service penetrations, openings for doors, fire-dampers, windows, and other breaches in the assembly. Protection of structural building elements and assemblies are also critical to fire- and life-safety. Attend this session to learn the code requirements for fire-resistance, as well as some key proposals currently going through the NBC Code Development Process.

11:00 am – 11:45 am CDT  
**Firestops in Mass Wood Timber Buildings**  
*Matt Winston, HILTI*  
The evolution of Mass Wood Timber (MWT) buildings has driven code changes and interest in the construction industry. The result is that MWT 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 buildings: firestop. Innovation in testing programs to-date have allowed firestop systems to keep pace with the acceleration of MWT building design. Those involved in MWT projects should look to tested solutions to ensure the highest level of protection from firestop systems.

11:45 am – 12:30 pm CDT  
**Fire Codes & Fire-Separation Management – Existing Buildings**  
*Bill McHugh, FCIA | Rich Walke, FCIA*  
The fire-resistance provided by fire-separations is continuously in-service protecting people and property all year long. Learn what’s required by fire codes, and how providing routine visual inspections can maintain protection for the life cycle of the building.

12:30 pm – 1:15 pm CDT  
**Expansion Joint Fire Barriers: Principles, Practices, and Problems**  
*Ben Stys, Inpro | Susanne Fouda, Inpro*  
This presentation provides an overview of fire barriers as related to expansion joints, standard industry expansion joint fire barrier types, the test standards these systems need to pass in order to be classified as an expansion joint fire barrier system, and keys for proper installation of expansion joint fire barrier systems.

1:15 pm – 2:00 pm CDT  
**Perimeter Fire Containment Systems: ASTM E2307 in CAN/ULC S115**  
*Rick Roos, Rockwool*  
There has been confusion for many years relating to the interpretation of building code requirements and the application of CAN/ULC S115 when it comes to perimeter fire containment systems. This presentation explains recent changes made to CAN/ULC S-115 and the requirements for fire resistance continuity of rated floor systems to unrated exterior walls.
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REGISTRATION REQUIRED

Friday, October 2, 2020

10:00 am – 11:00 am CDT  
UL’s NEW MACC Program & the ULC QFCP  
*Ruben Sandoval, UL*  
Attend this session to hear about UL’s new program, the Master Certificate of Compliance (MACC). Part of the ULC Qualified Firestop Contractor Program (QFCP), the MACC is annually renewable and helps building owners and managers comply with fire code requirements that state the fire-resistance must be able to continuously provide protection – all year long. The program also covers key benefits associated with the ULC QFCP.

11:00 am – 11:45 am CDT  
Pre-Cured Firestop Applications  
*Steve Cooper, Balco/Rectorseal*  
This session covers the protection of breaches in fire-resistance-rated and smoke-resistant assemblies with firestop solutions that can be applied without wet sealants or spray materials. The session will focus on solutions for existing buildings and will answer the question of how to treat joints in existing buildings to repair them properly.

11:45 am – 12:30 pm CDT  
Perimeter Fire-Containment: Common Misconceptions  
*Angie Ogino, Thermafiber, Inc.*  
Detailing a building’s perimeter fire containment system can be complicated. Typically, aesthetics, thermal performance, and moisture management design take precedence over properly detailing a perimeter fire containment system. Therefore, most often, a tested and listed system has to be incorporated once all the other building performance criteria has been set into the drawings. This can be challenging for the Specialty Firestop Installation Contractor to make sure that all the details required to keep fire from spreading through the interior perimeter joint are properly installed. This presentation will highlight the 5 common misconceptions when it comes to designing and installing a perimeter fire containment system.

12:30 pm – 12:45 pm CDT  
Closing Remarks  
*Bill McHugh, FCIA Executive Director | Ben Urcavich, FCIA 2020 President*

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*Plan to attend FIC ‘20, FCIA’s Firestop Industry Conference & Trade Show, at the Hyatt Regency Hill Country in San Antonio, TX this October 27-30, 2020!*

“There are many opportunities for you to jump into our story; a story that is being written about the growth and development of the firestopping & fire- and life-safety industry.”

Ben Urcavich, 2020 FCIA Board President
Steve Cooper is vice president of Business Development – for Building Safety Products with CSW Industrials, headquartered in Dallas, TX. He has extensive experience in Manufacturing Operations, Sales, Product Design, as well as Technical and Executive level management. He works with architects and engineers to develop proper specifications and designs using Life Safety and fire rated products on large commercial and institutional projects. Steve has several years of previous experience as an independent third-party inspector for Intertek and Omega Point laboratories. Mr. Cooper is a graduate of the Oklahoma State University School of Engineering Technology and Tabor College School of Business.

Balco, RectorSeal, LLC
2601 Spenwick Drive
Houston, TX 77055 | USA
T: 713.263.8001
M: 470-409-3112
E: steve.cooper@rectorseal.com
E: steve.cooper@balcousa.com
E: steve.cooper@grecorailings.com

Mr. Crimi is a Registered Professional Engineer, and founder of A.C. Consulting Solutions Inc., which specialize in Building and Fire related Codes, Standards, and product development activities in the US, Canada and Europe.

Prior to founding ACCS in 2001, he spent over 15 years in the area of Codes, Standards, Testing, and Conformity Assessment with Underwriters’ Laboratories of Canada, where he concurrently held the positions of Vice President & Chief Engineer.

Mr. Crimi participates in a wide range of Codes and Standards development activities in Canada, the US, and Europe. He is a member and immediate past-Chair of the National Building Code of Canada Standing Committee on Fire Protection, and an active participant and member of the International Code Council, NFPA, ASTM, numerous UL Standards Technical Panels and UL Canada Standards development Committees, & ISO Codes and Standards development organizations.

A.C. Consulting Services
10660 Yonge St. | PO Box 30613
Richmond Hill, ON L4C 4H0
T: 905.508.7256
E: tcrimi@sympatico.ca
Eric De Amorim is consistently recognized throughout the design community and construction industry for his firestop expertise. He works closely with inspectors, contractors, and consultants as a trusted advisor during the design and construction stages. Prior to his role as Canadian National Sales Manager, Eric was the STI Firestop Territory Manager, covering Eastern Canada.

André Laroche is the Manager of a team of Technical Advisors supporting the work of nine Standing Committees responsible to technically and editorially review the National Model Codes at the National Research Council, Construction. He is also a Senior Technical Advisor—Fire Safety and provides technical and administrative support to the Canadian Commission on Building and Fire Codes responsible for the content 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). In this role, he supports the Fire Safety Group responsible of Part 3 of Division B of the NBC and the National Fire Code on issues related to fire protection and people’s safety.

After graduating as a Mechanical Engineer at the Université Laval in Québec in 1988, he was the 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 the NRC, Mr. Laroche acted as a Fire Engineer Consultant for FM Global where he specialized in dust hazards, hydro-electric power plants, aluminum smelters, textile and plastic industry.

National Research Council Canada
230 Bassett Blvd.
Whitby, ON L1R 1G3
T: 613.933.9586
E: Andre.Laroche@nrc-cnrc.gc.ca
Angie is Therafiber/Owens Corning’s Technical Services Leader. Angie has over 20 years experience in the mineral wool and firestopping industry, providing engineering judgments and technical assistance on mineral wool product performance for architects, building officials and contractors in the fire containment area.

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

Bill participates in the Code Development processes at the National Fire Protection Association (NFPA), International Code Council (ICC), State of Illinois, and City of Chicago. 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 International Accreditation Services (IAS) Board of Directors. At the American Society for Healthcare Engineering (ASHE), he serves as organizer and moderator for the ASHE/TJC/FCIA/UL Barrier Management Symposiums.

He is also a past Institute Director, Chapter and Region President at the Construction Specifications Institute (CSI).

Angie is the developer and coordinator of all perimeter fire containment testing for Therafiber at Underwriters Laboratories, Southwest Research and Intertek/Omega Point Laboratories. Angie is responsible for managing Therafiber’s UL and Intertek/OPL Follow-Up Service Quality Programs.

She is also the developer of Therafiber’s educational programs on perimeter fire containment and has presented perimeter fire containment programs at the AIA National Conventions, as well as the CSI (Construction Specifiers Institute), PCI (Precast Prestressed Concrete Institute) and major architectural and curtain wall manufacturing firms throughout North America.

Angie is also a member of the Insulation Contractors Association of America where she Co-Chaired the Commercial Construction Committee for 5 years. She is also a member of the International Firestop Council and Firestop Contractors International Association. Angie is also participates in code development for IBC, Chapter 7 (Fire and Smoke Protection Features). Angie is also a LEED Accredited Professional.
Incorporating expertise in fire safety, hygrothermal building performance and acoustic control, Rick brings a holistic approach to codes and standards development. As the Senior Manager, Codes, Standards and Fire Safety at Rockwool, Rick works within the Codes development process through Codes Canada and the International Code Council, as well as, Recording Secretary for ASTM E05.22 Surface Flammability, as Member of CANULC S100A Committee on Fire Tests, Convenor for ISO 9229 Thermal Insulation Vocabulary and as Associate Member of CAN/ULC S700 Thermal Performance and Energy Use in the Built Environment.

Rick lives in Toronto with his wife and 3 year-old son.

ROCKWOOL
8024 Esquesing Line
Milton, Ontario  L9T 6W3
M 905.864.5837
E: richard.roos@rockwool.com

Ruben Sandoval Jr. is the Business Manager in UL’s Field Engineering Group. He is based in Buckeye Arizona. The Field Engineering Group focuses on assisting clients to navigate increasingly complex supply chains and manufacture safe, high-performing products. The group conducts more than 600,000 inspections, audits, field evaluations, and product traceability services for clients in more than 120 countries. The Field Engineering group is leading the effort to both modernize how UL partners with clients through technology and the use of data and analytics to drive enhanced field-related decisions.

Ruben joined UL as a Field Engineer in 2000. Ruben has over 19 years of experience in safety engineering and 5 years of experience in the fire and life safety arena. Under Ruben’s leadership the fire and life safety arena has seen the development of UL’s Master Audit Certificate of Compliance (MACC), UL Fire Door Inspection program, and the launch of UL’s Onsite Firestop Inspection program.

Ruben received his Bachelor’s degree in Telecommunications Engineering in 1999.

UL LLC
333 Pfingsten Road
Northbrook, IL  60062-2096 | USA
T: 480.290.6987
E: ruben.sandovaljr@ul.com
Ben Stys is the Product Manager for Inpro’s Expansion Joint Systems division. He has over 15 years of experience in engineering and manufacturing expansion joint cover systems and fire barriers.

For the first nine years of his career at Inpro, Ben worked in the Estimating Department performing takeoffs for expansion joint systems, which allowed him to gain technical proficiency in expansion control, as well as plan and detail reading. For the last six years, he has worked in product management and enjoys the challenges that are unique to expansion joints.

Ben holds a Bachelor of Science degree in Engineering from the University of Wisconsin-Platteville.

Inpro Corporation
S80 W 18766 Apollo Dr.
Muskego, WI  53150 | USA
T: 262.679.9127
E: bstys@inprocorp.com

Bethany Turowec, MESc, P Eng.
Application Engineer

Betty is an Application Engineer for 3M’s Fire Protection Portfolio. She collaborates with key stakeholders – contractors, building inspectors, engineers, architects and code consultants – to ensure applications maintain compliance with the National Building Code of Canada (NBC). Through these interactions, Betty analyzes market trends to hone and conduct product testing and development.

She is focused on many areas of passive fire protection, including firestop through-penetrations and construction joints, and duct, structural and electrical circuitry protection. Betty provides comprehensive training on these topics, relating them to appropriate standards and sections within the NBC. She also participates on the CAN/ULC-S115 Fire Tests of Firestop Systems Task Group to aid development of future editions.

When applications are more complex, Betty makes site visits to provide installation assistance or collect relevant information for engineering judgment (EJ) procurement. She also enjoys providing detailed hands-on training at 3M’s fire test centre.

Betty has a Bachelor of Engineering Science in Chemical Engineering and a Master of Engineering Science in Biomedical Engineering, both from The University of Western Ontario. She also received her Professional Engineering Designation from the APEGA in 2017 and the PEO in 2018.

3M Canada
1840 Oxford St.
London, ON  N5V 3RG
T: 403.616.5488
E: bturowec@mmm.com
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, engineer, contractors and code officials.

Creative Technology, Inc.
T: 847.274.0283
E: richwalke61@gmail.com

Matthew 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 five years and currently works as the Testing and Approvals Engineer for firestops.

Hilti North America
3701 W. Royal Lane
Irving, TX 75063 | USA
T: 214.803.5721
E: Matthew.winston@hilti.com