

FCIA's Year End Wrap Up

- Association Update
- Celebrate 20 years
- FCIA ECA & FIC Conferences
- Code Development
- Standards Development
- Advocacy
- Thanks

FCIA
FIRESTOP
INDUSTRY
CONFERENCE
&
TRADE SHOW

NOVEMBER 5-8, 2019

TRUMP NATIONAL DORAL MIAMI
MIAMI, FL

FCIA 

Firestop Contractors International Association





Thanks Sponsors & Exhibitors

- 3M Fire Protection Solutions
- Albion Engineering Co.
- Balco-Rectorseal
- Boris Software, Ltd.
- Construction Specialties, Inc.
- EMSEAL Joint Systems, a SIKA Company
- General Insulation Company
- Fireline520/An Inpro Co.
- General Insulation Company Inc.
- Hilti North America
- Inpro Co., Fireline 520
- Newborn Brothers Co., Inc.
- ROCKWOOL
- Safti-Seal, Inc.
- Specified Technologies, Inc.
- Thermafiber/Owens Corning
- UL

FCIA Education



- FCIA Firestop Education for FM & UL Firestop Exams
 - Contractor Personnel
 - Inspection Agency Personnel

FCIA Comes Alive - Chicago, 1999



Steering Committee and First Board

Aedan Gleeson - President

Ed Dougherty – Vice President

Mel Tabor - Treasurer

Don Murphy - Secretary

Blasé Reardon - Director

Breck Spain – Director

Kathy Taraba – Director

Mark Singley – Outside Counsel

Bill McHugh – Vice President, Executive Director

Charter Members

Those members who attended this first meeting and/or joined the FCIA in its' first year of existence. 40 Companies qualified of which almost half are still members and are being recognized today.

1 Source Firestop

A.F. Underhill

Barber Firestop

Brand Services

C.L. Downey Construction

F.F.I. Associates

Fire Safe of Houston

Fire Stop Technologies (TN)

Firestop Specialties

Firetek

Georgia Firestop

Gleeson Powers

Global Firestop Services

Multicon

Performance Contracting Inc.

PPMI Firestop

Pyro-Stop

SUPERL

14 of 19 Charter Members Still in Business – Still Members !

First Meeting Attendees

Representatives from the following companies joined FCIA at that first meeting in Chicago in 1999.

1 Source Fire Stop
A1 Firestoppping
Accurate Firestop
A.F. Underhill
Brand Services
C.L. Downey
Capital Insulation Services of
MD
Durango
E. B. Berger
F.F.I. Associates

Fire Safe of Houston
Fire Stop, Inc.
Firestop Contractors
Firestop Specialties
Firestop Systems
Firetek
Gleeson Powers
Global Firestop Services
Hemstrom
Masco/Mato
Metro Skyline
Multicon Fire Containment

Palladium Group
Performance Contracting Inc.
PPMI Firestop
Pyro-Stop
Seal Systems
Surety Firestop
SUPERL
Tabor Insulation
TEDCO Insulation
United Subcontractors

FCIA Comes Alive - Chicago, 1999



Thanks FCIA Board of Directors & Committees



Current Board Members

- Jay McGuire, Fire Stop Technologies, Inc. - President
- Ben Urcavich, Performance Firestop, Inc. - Vice President
- Bryant Bickmore, SealCo, Inc. - Past President
- **Mark Dietz, Superl, Inc. - Past President**
- Jerry Dugan, Firestopping Specialist Co. - Director
- Tyler Ferguson, Northeast Firestop, Inc. - Director
- **Eric Keeton, Dalton Protection, Inc. - Director**
- Scott Rankin, Superior Insulation/Tru Team – Director
- Tracy Smith, Firestop Southwest - Director

NEW 2020 Board Members

- Mark Dietz
- Alan McDurmon



Eric Keeton rolls off the Board

Association Report

- Standards Involvement Results
- Industry Relationships
- Industry Influences
- Financially Sound Association
- Membership Retention Remains Strong
- North America & International Growth
- 367 Members
- Largest FIC Conference Attendance Ever

Members

- 1998 - 7 Members
- 1999 - 40 Members
- 2000 – 71 Members
- 2001 - 104 Members
- 2005 – 121 Members
- 2008 - 215 Members
- 2017 – 340 Members
- 2018 - 355 Members
- 2019 - 367 a/o Nov. 7....
- **Growing – Barrier Management Services Section**

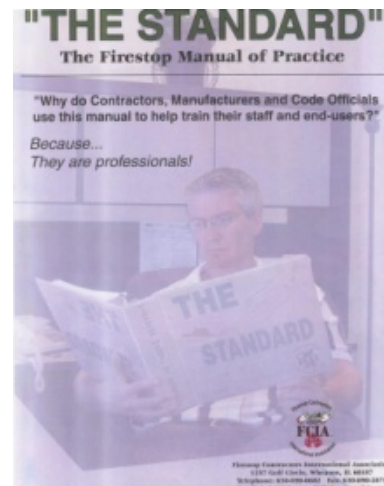
Driving FCIA's DIIM

- Advocate
- Exposure for Members
- Networking Everywhere
- Education for Members
- Education, Outside World –
 - **How to Evaluate Firestop Contractors, Barrier Management Services; FCIA, FM/UL**
 - **Listings, Manufacturers Instructions, Quality**

Education Committee Action

- **NEW FCIA “Firestop & Barrier Management Academy”**
- **1.5 Day Class, Hands On**
 - **Quiz**
- **FCIA Firestop MOP**
 - **2020 Updates**
- **FCIA Firestop Containment Worker Education**

\$500 DVD – Video, Quiz Books, More..



Code Committee Action

- **2021 - ICC Fire/Bldg. Code Development**
 - Install to Manufacturers Instructions & Listing
 - FM & UL Contractors – Next time...
 - Labeling/ID Systems – Next time...
 - **Inspection – R >250 FCIA Success**
- **2018 Inventory - Documentation**
- **NFPA 5000/101/1**
 - Added ASTM E 2174/2393
 - Added...Maintain Fire Resistance

FCIA Accreditation Committee Action

- FM Approvals Partnership
 - Jill Norcott (Jeff Gould)
 - USA, Dubai, Doha
- UL Partnership
 - Ruben Sandoval, USA, CAN, Dubai, Doha
 - **25+ UL MAC Certificates**
- **FM & UL/ULC Firestop Exams**
 - Contractor Personnel
 - **Inspection Agency Personnel**

Ruben
Sandoval
UL



Jill
Norcott

FM
Approvals



Partner Updates

- IAS AC 291 –
 - Voluntary Program, NO CODE MANDATE
 - AHJ can ‘Approve Agency’
 - MasterSpec & SpecLink – 2 years...
 - IAS Management System Audit
 - FM or UL Firestop Exam for Individuals
 - AND/OR IFC Firestop Exam



FCIA Standards Committee Action

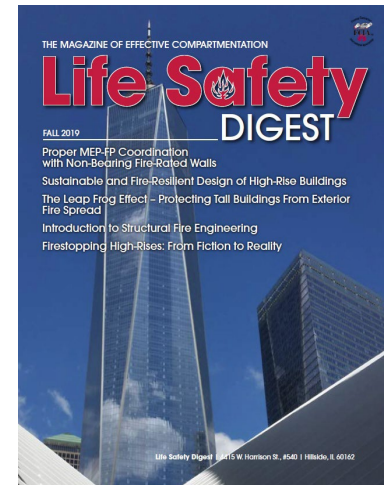
- **ASTM Standards Discussions**
 - Inspection - Type of Firestop
 - Installation Guide –
 - NOT RECOMMENDED
 - NEW Identification Systems TG
 - Archaic Assembly Discussions
 - Initiative to Reduce EJ's
- **UL STP Meetings**
 - UL 1479 Review in 2020...

Marketing Committee Action

- **Insurance Industry Breakthrough**
 - Big News Coming...
- **Research Project – Specs**
 - Dodge Data Analytics Stats
 - FM 4991
 - UL QFCP
 - Inspection
 - Labeling
- **Section 179 Tax Reform**
 - “Fire Protection” - <\$500k, Expensed...

Marketing Committee Action

- **Trade Shows, Life Safety Digest & Speaking**
 - IFMA Facility Fusion
 - SFPE Annual Convention
 - ASHE Annual Conference
 - ICC Expo
 - CONSTRUCT/CSI & CSC
 - NFPA Expo
- **Barrier Management Symposiums**
 - 15 Symposiums, 3 years, 1,500+ attendees
 - ASHE/FCIA/UL/TJC - Video Symposium
- **15 Webinars**
- **Life Safety Digest**
 - Circulation Growing
 - CONSTRUCT, IFMA, NFPA, More...



FCIA
Canada
Committee
Action

- **National Building Code of Canada – 2020**
 - **Fire Stop to Firestop**
 - FM 4991 & UL/ULC QFCP
 - ASTM E 2174/2393 Inspection
 - Maintenance – Inventory
- TIAC Annual Conference
- Construction Specifications Canada
- CHES Convention
- **NEW Specs Coming**
 - **Commercial & Government Published,**
 - **FCIA's DIIM – 07-84-00**
- **Apprentice**– Nova Scotia Discussions

Program Committee Action

- Biggest Conference Ever
- Biggest FCIA Golf Tourney for Scholarships
- Biggest Dinner
- Big Surprises After Dinner, Awards

FCIA Industry View

- **Firestop Industry Continues to Grow**
- **Strong NEW Construction Economy**
- **Existing Buildings Expanding**
 - Barrier Management Services Diversification
 - OTHER Existing Building Occupancies
 - Building Owners “Fire-Resistance Budgets”
- **FM 4991, UL QFCP**
 - Specs Growing, Holding
 - Both Programs Growing
- **Inspection Growing**
 - Inspector Education
 - IAS AC 291 Program will grow
- **FCIA’s DIIM....**


FCIA's DIIM

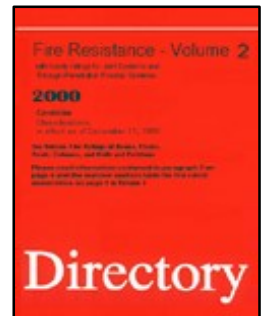
- DIIM Builds **Reliable Firestopping**
 - D-Design - Systems & Specs
 - I-Installation
 - FCIA Member, FM 4991 & UL QFCP
 - I-Inspection, ASTM E 2174/2393, Individual Education/Exams, AC 291
 - M-Maintenance – Inventory, Barrier Management
- ***If not reliable, why bother???***

FCIA & UL Some History

- Rich Walke & Luke Woods

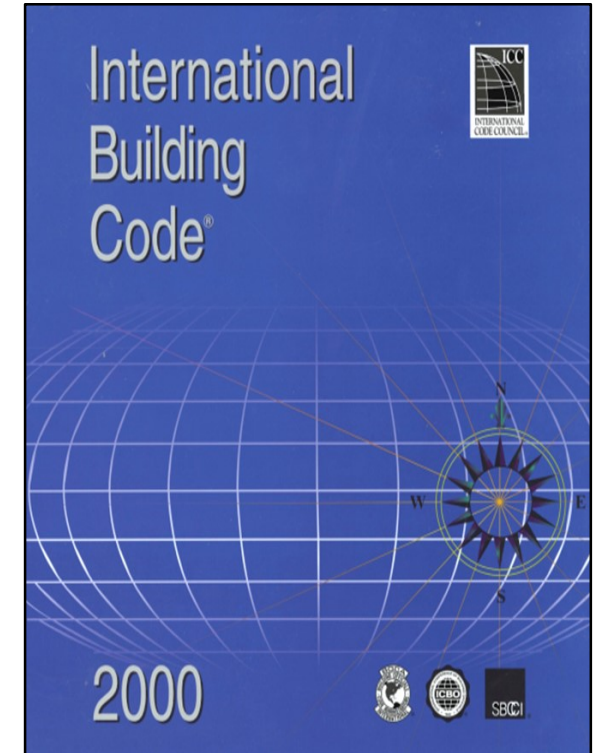
Past – The Early Years

- 1st Testing – 1976 – Nelson MCT's...
- UL 1479 – 1982
- The product category “Wall and Floor Opening Protective, Multiple-Cable Systems” (ZCOR) was renamed “Through-Penetration Firestop Systems” (XHEZ) in 1982.
- UL began testing firestop devices and system to UL 1479 in 1982.
- UL 2079 - 1992
- These early listings were published in the UL Building Materials Directory.
- Listings transferred over to the Fire Resistance Directory in 1992.
- L Ratings – 1993
- W Ratings – 2004, Class 1 (3'), 2 (20'), 3 (58')
- ASTM E 2307 – 2004
-  ASTM E 2837 - 2006



Past – International Building Code

- The three legacy code writers merged in the late 90s into one organization, the International Code Council (ICC). Original intent was NFPA was to be part of ICC. NFPA ultimately decided to maintain their independence.
- The legacy building codes were merged into one model building code, the International Building Code (IBC).
- First edition of the IBC was published in 2000.
- Requirements for the protection of penetrants mirrored the last editions of the three legacy codes.
- Requirements for the protection of joints changed significantly:
 - UL 263 / ASTM E119 was replaced with UL 2079, thereby allowing small-scale testing on the narrower width joints
- Requirements for the protection of perimeter voids mirrored the 1997 edition of the UBC.



Past – Evolutionary Changes to IBC

- A number of evolutionary changes to the IBC occurred from the 2000 edition to the 2018 edition thanks to the efforts of FCIA and IFC.
- Significant changes were as follows:
 - 2003 IBC – Methods of protecting membrane penetrations by outlet boxes continued to expand.
 - 2006 IBC – Methods of protecting membrane penetrations by outlet boxes continued to expand.
 - 2006 IBC – Requirements were added that penetrations and joints through or in smoke barriers are required to have an L Rating when tested in accordance with UL 1479 and UL 2079, respectively.
 - 2006 IBC – ASTM E2307 was referenced as an optional test method for evaluating the perimeter void.
 - 2009 IBC – Provisions relating to the protection of duct penetrations using firestop systems was clarified.
 - 2009 IBC – Methods of protecting membrane penetrations by outlet boxes continued to expand.
 - 2012 IBC – Requirement added that interior fire-resistance-rated wall assemblies shall be identified as being fire rated through specific marking at specific locations.



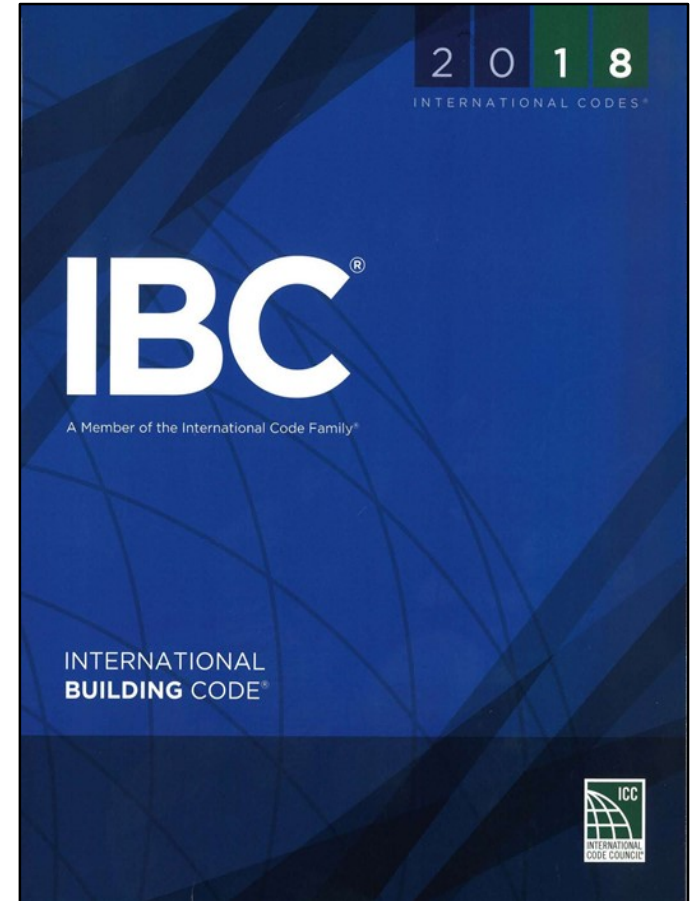
Past – Evolutionary Changes to IBC

- 2012 IBC – Methods of protecting membrane penetrations by outlet boxes continued to expand.
- 2012 IBC – ASTM E2307 became the base requirement for testing perimeter voids. An additional provision was added that stated floor to ceiling glass systems need only meet the traditional UL 263 / ASTM E119 time-temperature fire conditions, essentially as required by the 2000 IBC.
- 2012 IBC – Requirements added for special inspections for firestop systems and fire-resistant joint systems in high-rise buildings (occupied floor > 75 ft above FPD access) and Category III and IV buildings, based on the inspections standards ASTM E2174 and E2393, respectively.
- 2015 IBC – Requirement added that void between fire barrier and nonrated roof be filled with an approved material.
- 2015 IBC – Requirement added that void between curtain wall and vertical fire barrier be filled with an approved material.
- 2015 IBC – Methods of protecting membrane penetrations by outlet boxes continued to expand.



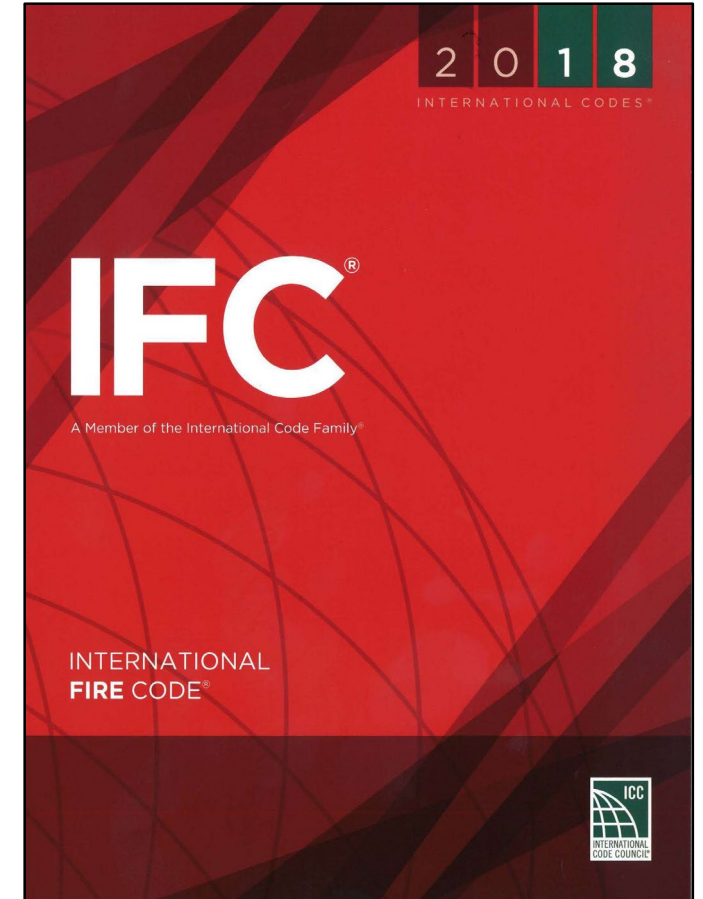
Past – Evolutionary Changes to IBC

- 2018 IBC – Provision added that firestop systems and fire-resistant joint systems shall be installed in accordance with the manufacturer’s instructions and the listing criteria.
- 2021 IBC – Rewrote Section 715 covering Fire-Resistant Joint Systems of clarify existing requirements. Changes were primarily editorial.
- 2021 IBC – Requirements for special inspections of firestop systems and joint systems expanded to include R occupancies (Residential) with occupant load greater than 250.



Past – Evolutionary Changes to IFC

- 2019 International Fire Code (IFC) – Rewrote Chapter 7 covering inspection and maintenance of Fire and Smoke Protection Features, including fire-resistance-rated construction and the methods of protecting breaches through that construction.



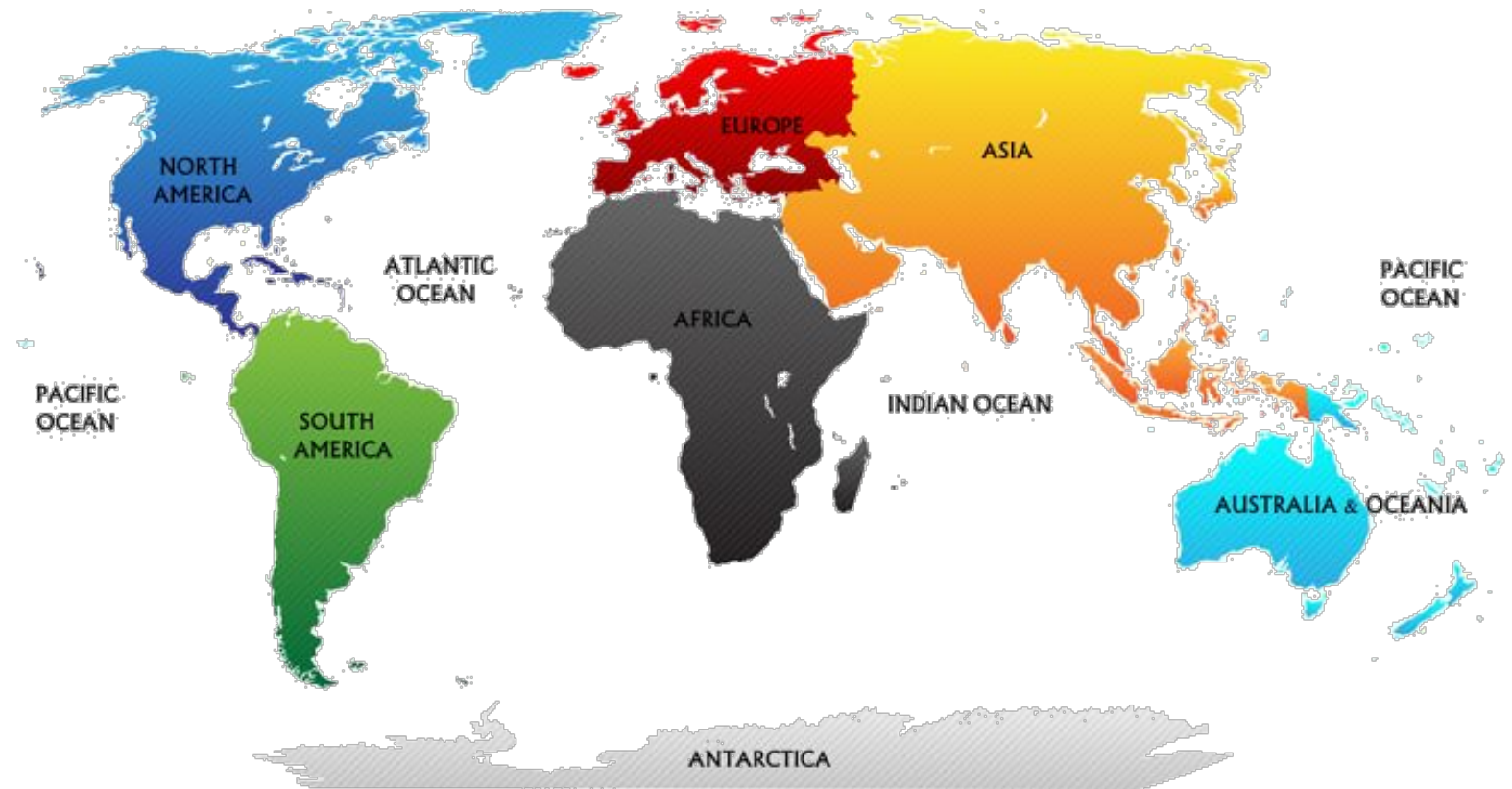
Future – UL Standards Technical Panel (STP)

- How will FCIA members educate the STP?
- Will there be research presented on contractor related matters?
 - Field conditions and install.
 - Field preparations.
 - Install sequencing.
- Will a day in the life of an FCIA member be brought to the STP and captured in a standard?
- Get involved.



Future – New Regions

- Where should we focus firestopping resources?
- Middle East?
- South America?
- Asia?
- Mars?



Future – Cross Laminated Timber

- How do we accommodate CLT?
 - Codes?
 - Standards?
 - Designs?
 - Follow Up Services?



Future – Archaic Construction



FCIA & Standards Discussions



- Archaic Assemblies & EJ's?
- EJ's
- Exposures
- Movement
- **Identification Systems/Labelling**
- Barrier Management Systems



FCIA ECA Conference
Intercontinental Hotel @ Plaza - Kansas City
May 12-14, 2020



FCIA FIC 2020 Conference
Rancho Bernardo Inn - San Diego, CA
November 10-13, 2020