

BONNEVILLE CHAPTER

Utah Cultural
Celebration Center
1355 West 3100 South
West Valley City, Utah

24th

Annual Fall Educational Institute

Nov. 7 thru 9, 2017

Up to 8 C. E. U.
Credit Hours
awarded per day for:
Architects,
Engineers,
Fire and Building
Departments

Courses Provided by:



PREFERRED
EDUCATION
PROVIDER

*New Approved AIA
Courses, earn AIA CEUs*



AIA
Utah

Partial Funding by:



DEPARTMENT OF COMMERCE
Division of Occupational and
Professional Licensing

**ABOUT OUR FALL EDUCATIONAL INSTITUTE:
THE RIGHT TOPIC AT THE RIGHT TIME AT THE RIGHT PLACE!**

- Join us for our 24th annual conference. As always we strive to maintain our tradition of excellent and relevant education at a reasonable cost.
- The conference will be held again at the Utah Cultural Celebration Center located at 1355 West 3100 South. The Utah Cultural Celebration Center is located due east of the intersection of 3100 South and Redwood Road.
- Learn from national and local experts including three ICC seminars, a local engineering firm, and a very well-known independent national instructor.
- Numerous restaurants to choose just a 5-minute drive away. Lunch is on your own.
- Partial funding of this training program has been provided by the Division of Occupational & Professional Licensing of the State of Utah from the 1% surcharge funds from all building permits.
- **ARCHITECTS NOTE:** Once again our educational agenda provides timely classes specifically to help you fulfill all your educational requirements for your license renewal.
- **INSPECTORS NOTE:** This year's program includes 4 tracks to assist with the implementation of the 2015 International codes. There is a balanced mix of advanced topics and fundamentals. The solar PV class will help with understating this ever increasingly popular industry.

IBC ADVANCED TRACK: COURSE DESCRIPTIONS

2015 IBC – Multifamily Construction

This class will focus on the specific IBC requirements for multifamily dwellings such as apartment complexes. There will be some discussions of podium structures and exterior cladding systems in the 2015 IBC. The course will also include accessibility requirements of IBC 1107 and Chapter 10 of ICC A117.1-09 for Type A and B units. It will also cover some common problems associated with the design of multifamily buildings including fire rating, exhaust systems, shaft construction and assignment of construction types. Requirements for accessory structures such as pools and carports will also be discussed.

2015 Alternate Methods of Construction

There seems to be an influx of unusually large and complex buildings coming into Utah. This class focuses on plan review and inspection of very large and unusual buildings. Because extreme buildings often fail to fit into the prescriptive requirements of the IBC, alternative designs and performance based concepts are often needed. This course will include the review and discussion of the true intent of the code versus limiting prescriptive language found in the IBC. The instructor will encourage students to think outside the box when necessary. The ICC Performance Code will be introduced in this session as another tool at your disposal for evaluating performance based design. This class will address plan review and inspection of these unique structures. This course is applicable to building officials, fire officials, plans examiners, inspectors, and design professionals.

2015 IBC, 2009 ANSI, ADAG Accessibility

This course introduces basic concepts of disabled accessible design and construction using the International Building Code and ICC A117.1 as it relates to non-residential structures. The first portion of the class will discuss WHEN accessible features are required by the IBC. The remainder of the class will be devoted to HOW a building and its site is made accessible by the A117.1 Standard. Differences between the code and the ADA Standard for Accessible Design will be discussed.

Application of accessibility requirements for existing buildings will be discussed.

PLAN REVIEW TRACK: COURSE DESCRIPTIONS

IRC Plan Review & Inspections

This seminar will include instruction and discussion of how to perform a residential plan review and inspections, ensuring compliance with the 2015 IRC. The class will include brief overviews and common key elements of the IRC, most applicable in the field and during plan review. Topics include reasonable submittal requirements, writing concise plan review comments and the synergy between plan reviewers and inspectors. This course is tailored for new plan reviewers and inspectors or for those who are transitioning from inspector to plan reviewer.

COURSE DESCRIPTIONS CONTINUED

2015 IRC/IBC – Simplified Structural Plan Review (1-Day)

This seminar provides a step-by-step approach for performing a structural plan review to ensure that projects conform to the structural requirements of both the IRC and IBC. As most projects in Utah do not meet the conventional construction requirements, the majority of the items will focus on engineered design complying with the IBC. The seminar does not teach how to perform structural calculations, but rather explains how to verify the project's design assumptions and overall compliance with the building code. A good portion of the seminar will be spent discussing specific construction and framing errors identified common with residential construction.

2015 IRC Plan Review, MEP, Fuel Gas, Energy

This course will focus on mechanical, electrical and plumbing system requirements for residential construction as it pertains to plan review.

The class will address issues often missed in plan review including:

-ventilation, natural and mechanical as may be required by blower door testing, new bath fan requirements, range hood make-up air, ACCA J,D & S
gas pipe sizing, regulations and the Dominion Gas app, Combustion air, direct vent appliances and furnace room insulation and sealing for open combustion appliances, Chapter 11 Energy, State amendments, compliance options, testing requirements, Water line sizing, DWV, backwater valves and water heaters and more...several handouts and guides will be provided

Class will be an open discussion, with questions and comments welcome.

FUNDAMENTALS TRACK: COURSE DESCRIPTIONS

2015 Solar Plan Review and Inspections

Solar photovoltaic (PV) system installations continue to increase throughout the country. Thorough plan reviews and inspections are essential for their safe installation. This full day course will give many examples of different types of solar PV systems and will walk the class step by step through the plan review process for each one. This course will also explain the key items to look for during inspections. Topics to be covered throughout the presentation include: wire/breaker sizing, wire derating, cold temperature voltage, rapid shutdown of systems, disconnect locations, interconnection requirements, roof fire access clearances, equipment/wiring installation, and signage. This course will be very beneficial for plan reviewers and inspectors, but will also be helpful for solar contractors and designers to better understand what information is required on solar PV plans and what is expected during inspections. This course is based on the 2014 NEC and 2015 IBC/IRC.

2015 IBC Mixed Use and Occupancies (1/2 day)

Description: Based on the provisions of IBC Section 508, this seminar addresses those special requirements applicable to buildings containing two or more occupancy classifications. The three mixed-occupancy options are presented along with examples and

COURSE DESCRIPTIONS CONTINUED

exercises that illustrate the proper application of the provisions. Specific topics include: Occupancy classification, Mixed occupancy conditions, Accessory occupancies, Non-separated occupancies, Separated occupancies, Multi-story conditions

2015 IBC Allowable Heights & Areas (1/2 day)

Description: Based on the provisions of IBC Chapter 5, this seminar focuses on how a building's occupancy classification and type of construction relate to the maximum building size permitted by the IBC. The approach to determining a building's maximum allowable height and area is explained, including use of Table 503 and all related permitted increases due to sprinkler protection and frontage open space.

Detailed provisions related to mezzanines and unlimited area buildings are also addressed. Specific topics include:

Concept of limiting a building's height and area due to occupancy and construction type, General limitations based on Table 503, Allowable height increases due to sprinkler protection, Height limits of roof structures, Mezzanine definition, benefits, area limitations and permissible openness, etc.

2014 NEC Hazardous Locations & Health Care Provisions

The hazardous locations articles are some of the most intimidating in the entire National Electrical Code, filled with strange concepts and words that are hard to pronounce. Join Ryan Jackson as he explains Articles 500 through 516 of the NEC in a way that is easy to understand and fun to learn.

Understanding what makes an area a classified one will be described in great detail, as will the differences between Classes and Divisions. The installation requirements, including explosionproof equipment and other protection techniques, sealing and drainage, and other special equipment will also be discussed, as will the specific rules for gas stations, repair garages, and similar locations.

FIRE SERVICE TRACK: COURSE DESCRIPTIONS

2015 IFC Hazardous Materials & Classification

The 2015 IFC® and IBC® Hazardous Materials Provisions seminar addresses requirements for buildings utilizing hazardous materials and requiring coordination between the fire and building codes. It reviews the requirements found in Chapters 50 through 67 of the International Fire Code® (IFC®), as well as Chapter 3, and Sections 414 and 415 of the International Building Code® (IBC®). The goal of the seminar is for participants to examine the application of code requirements in the 2015 IFC and the 2015 IBC to determine compliance for the storage use, handling and dispensing of hazardous materials.

COURSE DESCRIPTIONS *CONTINUED*

2015 IFC and IBC Fire Protection Systems

This seminar is designed to guide participants through the 2015 IFC requirements related to fire protection systems (Chapter 9). These requirements include suppression systems, standpipe systems, automatic fire alarm systems, automatic detection systems and additional fire protection assemblies.

This seminar provides code officials and design professionals with:

- An understanding of the Chapter 9 fire protection system requirements in the 2015 IFC and 2015 IBC.
- The design and operation of various fire-extinguishing and fire detection and signaling systems.
- A review of the applicable National Fire Protection Association (NFPA) standards for fire protection systems.
- The requirements for the inspection and maintenance of fire protection systems.

2015 IBC Use of Fire and Smoke Separations (1/2 day)

This seminar identifies the many and varied conditions identified in the IBC where fire and/or smoke separations are required. The discussion will focus on those required locations where fire-resistance-rated wall and horizontal assemblies, as well as smoke-resistive wall and horizontal assemblies are either required by the IBC or utilized by design professionals as alternative approaches to code compliance. Such locations include the selective or mandated use of fire walls, fire barriers, fire partitions, smoke barriers, horizontal assemblies and other separation elements. Specific topics include:

- Separated occupancies
- Control areas
- Incidental use areas
- Institutional and residential occupancies
- Exit ways
- Smoke compartments
- Fire areas
- Separate buildings
- Shaft enclosures

2015 IBC Exit Systems (1/2 day)

This seminar focuses on IBC Chapter 10 means of egress components that are defined and regulated as "exits." These components, defined in Chapter 2, are considered as high-level elements that provide a considerable degree of occupant protection within the means of egress system. The exit discharge provisions will also be discussed. Specific topics include:

• Exterior exit doors at the level of exit discharge	• Horizontal exits
• Interior exit stairways and ramps	• Exterior exit stairways and
• Exit passageways	

COURSE INSTRUCTORS:

Todd Snider, PE, SE

Todd Snider serves as the Plan Review Supervisor for WC3's Utah Operations. He has more than 9 years of experience as a plans examiner and structural design professional. He is a licensed structural engineer and has a Master's degree in Structural Engineering. Todd is certified by ICC as a commercial building, energy, and accessibility plans examiner as well as a commercial building inspector. He has taught courses to many local ICC chapters as well as design professional organizations.

Stephen L. Thomas, CBO

Mr. Thomas has thirty years of experience in working with building codes including plan reviews, inspections and administration. His firm provides building code consulting services for governmental agencies and architectural firms, as well as educational seminars on building codes. Starting a building code-consulting firm in 1999, he has served as the contract Building Official for local jurisdictions in Colorado. Mr. Thomas has served on several ICBO committees and recently served as the Chairman of the ICC Means of Egress Code Development Committee. He is also the author of the book, Building Code Basics, Based on the 2009 & 2012 IBC and Building Code Essentials based on the 2015 IBC, both available from ICC. He has presented building code classes for the last 30 years and provides an interesting and engaging look at building codes.

George Williams, MCP, CBO

George has worked in the building safety industry for more than 10 years. He is an ICC Master Code Professional, Certified Building Official, Certified Housing Code Official, Combination Inspector and holds many other ICC certifications. George has been instrumental in the start-up of two building departments including the adoption of codes, implementation of permitting processes, development of policies and procedures, as well as hiring and training of staff.

Mike Molyneux, PE

Mike has more than 10 years of experience in the plan review, structural design, and construction industries. He has designed various residential, commercial, and telecommunications structures all over the United States as well as Canada, Mexico, Puerto Rico, and Haiti. He is a Registered Professional Engineer and has a Master's degree in Civil Engineering with an emphasis in structural engineering. Mike holds multiple ICC plan review and inspection certifications and is licensed by the State of Utah as a "Limited Inspector".

Brent Ursenbach

Brent Ursenbach is the Salt Lake County Energy/Mechanical Code Specialist, ICC Combination Inspector and a LEED Accredited Professional. He retired from HVAC contracting in 2005, after 33 years working in the field, now working as a code official for

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FALL EDUCATION

BONNEVILLE C

CULTURAL CENTER -

NOVEMBER 07 - N

COURSE PATH	NOVEMBER 07 TH TUESDAY	
IBC ADVANCED	2015 IBC, Multi Family Construction Todd Snider WC-3	2015 Meth Steve Color
Plan Review	2015 IRC Plan Review and Inspections George Williams WC-3	2015 Struct Mike WC-3
Fundamentals	Solar PV Plan Reviews & Inspections Doug Smith WC-3	2015 & All Doug ICC
Fire Service	2015 IFC Hazardous Materials & Classifications Scott Adams ICC	2015 Syste Scott ICC

C.E.U. CERTIFICATE

Persons requiring assistance due to disabilities, please contact Jerry Thompson (801)963

Registration: 7:30 am; AM Classes: 8:00-Noon - lunch on

ANNUAL
ONAL INSTITUTE
CHAPTER – ICC
— WEST VALLEY CITY
NOVEMBER 09, 2017

NOVEMBER 08 TH WEDNESDAY	NOVEMBER 09 TH THURSDAY
IBC Alternate Methods of Construction Steve Thomas Colorado Code Consultants	2015 IBC, 2009 ANSI, ADAG Accessibility Steve Thomas Colorado Code Consultants
IRC/IBC Plan Review, Structural Provisions John Molyneux 3	2015 IRC Plan Review, MEP, Fuel Gas & Energy Brent Ursenbach
2015 IBC Mixed Use and Walkable Heights Doug Thornburg	2014 NEC Hazardous Locations & Health Care Facilities Ryan Jackson Sunrise Engineering
IBC/IFC Fire Protection Systems Matt Adams	Use of Fire/Smoke Separation 2015 IBC/IFC Exiting Doug Thornburg ICC

AWARDED FOR ALL CLASSES

RS-3276 by October 01, 2017 so proper accommodations may be provided. Daily schedule -
on your own - PM Classes: 1:00-5:00; Breaks 10 am & 3 pm

COURSE INSTRUCTORS: CONTINUED

the past 12 years. He currently serves on the ICC PMG Code Action Committee, ICC Mechanical Code Development Committee, ACCA Educational Institute-Standards Task Team and the Utah Chapter ICC Code Development Committee. He is Past President on the RMGA (Rocky Mountain Gas Association) Board of Directors and is the Chairman, Utah UBCC Mechanical Advisory Committee. He is actively involved in the legislative process, working on issues such as education/licensure of HVAC technicians, zoning, building codes and adoption of current energy conservation codes. Brent has presented numerous seminars and classes on energy, mechanical and fuel gas code, as well as HVAC design principles. He received a B.S. in Sustainability Studies from U-Mass Amherst UWW, and is an adjunct instructor at SLCC, teaching classes in the energy management program.

Doug Smith

Mr. Smith has been an inspector for over 12 years and has been in the construction industry for over 18 years. He began his career with Kaysville City, Utah as a Building Inspector starting in early 2005 and worked for Kaysville City for almost 9 years. He then joined West Coast Code Consultants (WC3) in October of 2013. During his career he's obtained 19 ICC certifications including Certified Building Official and Certified Master Code Professional. In fact, he is one of only 21 Certified Master Code Professionals in Utah. As for his understanding of the building codes, you could say he's "well rounded," but particularly he specializes in electrical code requirements and is especially knowledgeable on the topic of solar photovoltaics. Doug has taught many electrical and solar photovoltaic classes over the years for various organizations in Utah. He's also taught classes in California, Nevada, and Oregon. With WC3 he primarily does electrical and solar PV plan reviews, however he is able to do many other types of reviews. As far as solar reviews are concerned, last year alone he performed over 2,000 reviews for many jurisdictions in Utah and California. The largest solar PV system plan review that he's performed was a 240 mega-watt California Energy solar PV project which included over a million solar panels.

Douglas W. Thornburg, AIA, CBO

Doug is currently Vice-President and Technical Director of Products and Services for the International Code Council (ICC) where he provides administrative and technical leadership for the ICC product development activities. Prior to employment with ICC in 2004, he was in private practice as a code consultant and educator on building codes for 9 years. Doug also spent 10 years with the International Conference of Building Officials (ICBO) where he served as Vice- President/Education. In his current role, Doug also continues to create and present building code seminars nationally and has developed numerous educational texts and resource materials. He was presented with ICC's inaugural Educator of the Year Award in 2008, recognizing his outstanding contributions in education and training.

A graduate of Kansas State University and a registered architect, Doug has over 35 years of experience in building code training and administration. He has authored a variety of

COURSE INSTRUCTORS: CONTINUED

code-related support publications, including the IBC Illustrated Handbook and the Significant Changes to the International Building Code.

Ryan Jackson

Ryan Jackson is a combination inspector in the Salt Lake City, Utah, area. He began his career as a carpenter while in high school, and began doing electrical work at the age of 18. At the age of 23 Ryan landed his first job as an electrical inspector, and subsequently became certified in building, plumbing, and mechanical inspection (commercial and residential), as well as building and electrical plan review. Two years after becoming an inspector, he was approached by a friend in the area asking him to fill in at an electrical seminar for him. After his first class he was hooked, and is now a highly sought after seminar instructor. Ryan has taught in several states, and loves helping people increase their understanding of the Code.

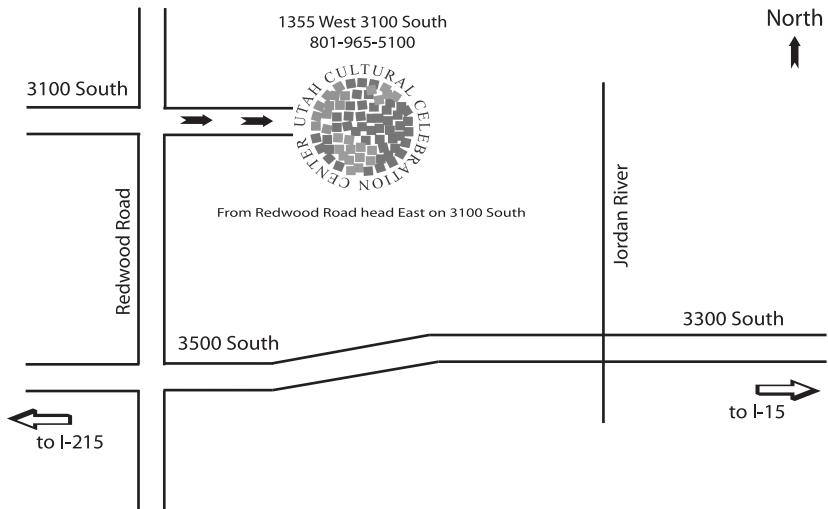
In 2005, Ryan met Mike Holt in Salt Lake City, and they became friends immediately. He helped Mike with his Understanding the NEC, Volume 2 videos and began editing his books as well. Ryan believes that there are only a small handful of opportunities that change a person's life and career, and meeting Mike was one of them. When Ryan isn't working, he can often be found in his garage turning wood on his lathe, and in the autumn you'll find him at as many University of Utah football games as he can attend, which is typically all of them. Ryan married his high school sweetheart, Sharie, and they have two beautiful children together: Kaitlynn and Aaron.

SCOTT W. ADAMS - ASSISTANT FIRE CHIEF - DISTRICT FIRE MARSHAL

Chief Adams graduated from the University Of Maryland with a Bachelor of Science degree in Fire Protection Engineering. Chief Adams is currently employed with the Park City Fire Service District as the Assistant Fire Chief. Chief Adams is responsible for the fire prevention bureau and serves as the District Fire Marshal. Chief Adams is currently serving on the ICC Governing Committee for the Fire Service Membership Council and has served as President for the International Fire Marshal's Association, Chairman of the Utah Fire Prevention Board, and committee member on the International Fire Code Performance Committee.

Chief Adams is certified as a Fire Code Inspector II in the International Fire Code and certified as a Building Code Plans Examiner in the International Building Code. Chief Adams served as Chairman for the 2002 Winter Olympics Fire Marshals Work Group, and was instrumental in developing the fire and life safety guidelines that were used in both permanent and temporary Olympic facilities and the planning and implementation of fire prevention and exiting programs for the games.

LODGING:



What you need to know about the Utah Cultural Celebration Center

culturalcelebrationcenter.org

Located at 1355 West 3100 South

Access from the corner of 3100 South & Redwood Road.
Drive as far east as you can on 3100 South.

The road ends at the *Utah Cultural Celebration Center*.

140 available *free* open parking spaces in dedicated parking
lot on site.

15 minute drive from Salt Lake City Airport.

LODGING:

Hotels within 5 minutes from conference site north and south of the Maverick Center.

Holiday Inn Express 866-925-1043
Baymont Hotel 866-767-0285
Sleep Inn 866-538-0270
Extended Stay America 866-925-7879
Crystal Inn 866-925-1480
Country inn & Suites 866-925-2907
Embassy Suites WVC 801-963-4760

Restaurants near conference site:

MAVERIK CENTER AREA

3100 South & Decker Lake Drive
5 minute drive from conference site

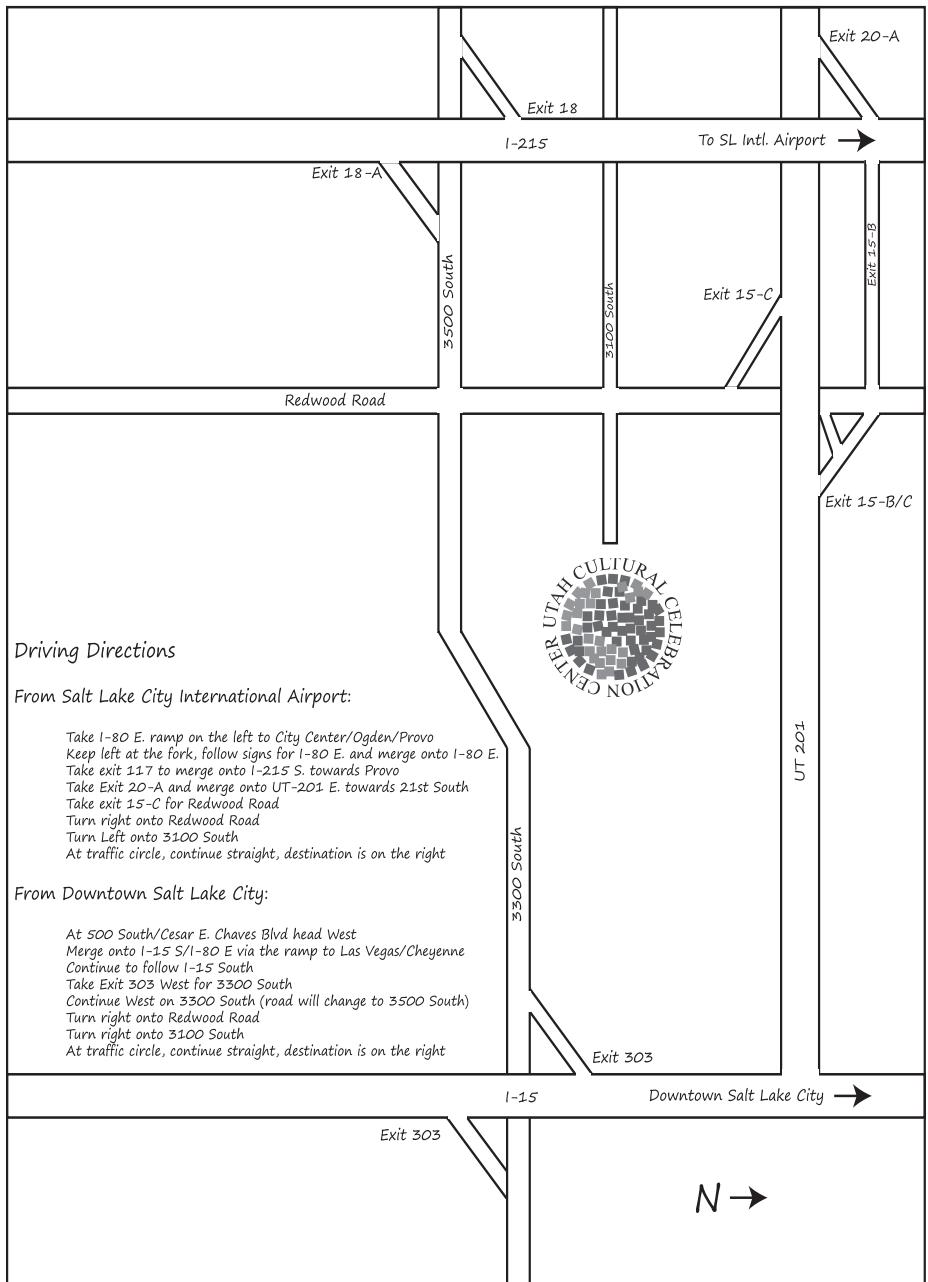
Costa Vida
Chili's
AppleBee's
IHOP
Cracker Barrel
Bout Time Pub & Grub
Greek Souvlaki (corner of Decker Lake & 3500 S)

VALLEY FAIR MALL AREA

3500 South Constitution Blvd. (2700 West)
10 minute drive from conference site

Olive Garden* (#1 in all USA Olive Gardens!)
TGI Fridays
Zupas
Wingers
Monster Sushi
In N Out Burger
Red Robin
Jimmy John's
Rumbi's
VF Mall Food Court
Pizza Rev
Cafe Rio
Smashburger

Salt Lake City Airport to Utah Cultural Celebration Center



Registration Form

Name: _____
Title: _____ Representing: _____
Address: _____
City: _____ State: _____ Zip: _____
E-mail: _____
Telephone: _____ Fax: _____

Fees: \$70 Per Person Per Day. **Late Registration \$80.00 per day after 10/18/17.** We regret that we can no longer accept split or shared registrations. Everyone must submit a registration form with a check. No invoices please. Everyone must pay the minimum registration fee of \$70.00. There is free open lot parking on site. Lunch is on your own.

Make Checks payable To:	Total Enclosed
BONNEVILLE CHAPTER ICC	
P.O. Box 672	
Farmington, Utah 84025	\$

Please check the boxes for the classes you will be attending.
Pre-registration will insure you a workbook!!

24th Annual Fall Educational Institute

Bonneville Chapter – ICC
Utah Cultural Celebration Center – West Valley City, Utah

November 7-9, 2017

All classes listed are full day classes

COURSE PATH	NOVEMBER 07 TH TUESDAY	NOVEMBER 08 TH WEDNESDAY	NOVEMBER 09 TH THURSDAY
IBC ADVANCED	2015 IBC, Multi Family Construction Todd Snider WC-3	2015 IBC Alternate Methods of Construction Steve Thomas Colorado Code Cons.	2015 IBC, 2009 ANSI, ADAG Accessibility Steve Thomas Colorado Code Consultants
Plan Review	2015 IRC Plan Review and Inspections George Williams WC-3	2015 IRC/IBC Plan Review, Structural Provisions Mike Molyneux WC-3	2015 IRC Plan Review, MEP, Fuel Gas & Energy Brent Ursenbach
Fundamentals	Solar PV Plan Reviews & Inspections Doug Smith WC-3	2015 IBC Mixed Use and & Allowable Heights Doug Thornburg ICC	2014 NEC Hazardous Locations & Health Care Facilities Ryan Jackson Sunrise Engineering
Fire Service	2015 IFC Hazardous Materials & Classifications Scott Adams ICC	2015 IBC/IFC Fire Protection Systems Scott Adams ICC	Use of Fire/Smoke Separation 2015 IBC/IFC Exiting Doug Thornburg ICC

REGISTRATION: 7:30 All classes are 8-hour sessions with lunch on your own.

Breaks will be held at 10:00 a.m. and 3:00 p.m. to coincide with prize drawings.

Refund Policy: \$10.00 processing fee until November 1, 2017. Thereafter, maximum 80% for exceptional reasons. REQUESTS MUST BE IN WRITING.

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STANDARD
U.S. POSTAGE PAID
BOUNTIFUL, UT
PERMIT NO. 1

Bonneville Chapter ICC
c/o Mike Bosch, Treasurer
P. O. Box 672
Farmington, UT 84025-0672

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Catch our web!
on www.iccbonn.org
[http://](http://www.iccbonn.org)

**Visit the ICC
Vendor Booth**