

Bi-Regional CSI Conference

May 4 and 5, 2018

Course Title:	Regions and Diversity in Alaska
Presenter:	Loren Anderson; Alaska Native Heritage Center
Course Date and Time:	May 4, 2018; 9:00 am to 10:30 am
Course Number:	CI1854A1
Course Description:	The Alaska Native Heritage Center (ANHC) provides workshops on Alaska Native cultural awareness training with the primary goal of recognizing cross cultural communication styles. It's important to create a dialogue of understanding before misguided language cues negatively affect inter-personal relationships, primarily between a management and staff, and agencies and customers. This session will cover Culture: What is it? What are its invisible aspects? How do we become aware of our own cultural lenses? and Interethnic communication. In face-to-face communication differences in language, communication style, or ways of speaking can be challenging and may even result in misunderstanding or misconceptions. This part of the workshop is not necessarily intended to change the way the participants communicate, but to help participants recognize and appreciate the different styles of communication among cultures.
Learning Units:	
1.	Participants will recognize and describe what the components of Alaskan culture is. Knowing one's culture will help individuals see and appreciate the differences in various cultures resulting in meaningful and honest interactions with people different from themselves. This will address who they are and how they lived
2.	Understand the different climatic regions throughout Alaska
3.	Understand the different regions in Alaska and what resources are available in each region.
4.	Understand how indigenous Alaskan's built in relation to their resources
Biography:	Loren is currently employed by the Alaska Native Heritage Center where he has worked the last 16 years in many capacities. Loren is Vice President of Cultural and Educational Programs. Some of his duties at the Heritage Center include organizing Alaska Native Cultural Awareness Workshops and managing cultural events and celebrations. Loren has served on the Native Village of Afognak Tribal Council for 10 years. He also helped form the traditional Sugpiat dance group, Imamsuat. Loren composes Native songs; creates art, and fills the role of tradition bearer when called upon. He continually strives to promote his culture and instill pride in the youth.



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Course Title:	Sustainable Design Limitations and Opportunities in Alaska
Presenter:	Michelle Gallagher, AIA; RIM Architects
Course Date and Time:	May 4, 2018; 11:00 am to 12:00 pm
Course Number:	CI1854A2
Course Description:	Join us for a discussion on sustainable practices in the North. This program will give you an overview of the history of the LEED rating system and other sustainable projects in Alaska. You will understand the baseline criteria for sustainability that exists in Northern design versus criteria for sustainable program requirements. The course will outline sustainability programs outside of the LEED rating system within the Alaska and provide you with an overview of the successes and challenges to achieve sustainability.
Learning Units:	
1.	Understand the history of LEED and other sustainable projects in Alaska
2.	Understand the baseline design criteria in place due to Northern climate conditions
3.	Other sustainability programs in Alaska
4.	Understand the successes and challenges to achieve sustainability in Alaska
Biography:	<p>Michelle joined RIM in 2008 and become an Associate in 2016. Her talents and enthusiasm have been leveraged across a range of project types, giving her broad experience. As an Associate, Michelle has assessed and reviewed facilities and documented findings, coordinated with building systems, provided graphics and construction documents, assisted with designs, and coordinated with consultants on multi-discipline teams. She has served in key architectural roles on several sustainable projects within Alaska including the Fireweed Business Center, which incorporated innovative solutions to Alaska-specific climate challenges and technology to increase employee productivity. Regardless of whether a project is pursuing LEED or awards,</p> <p>Michelle focuses on providing value and promoting energy efficiency and sustainability. As a standard, she employs energy efficiency as well as energy recovery, where possible, to reduce utility costs. Michelle is currently Vice President for the Society of American Military Engineers Alaska Chapter, and a Board Member of the Anchorage Downtown Partnership. She holds a Bachelor of Architecture from the University of Oregon and is LEED Accredited Professional by the U.S. green Building Council.</p>



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Course Title:	Visual and Technical Advances in Architectural Woodwork
Presenter:	Margaret Fisher
Course Date and Time:	May 4, 2018; 11:00 am to 12:00 pm
Course Number:	CI185412
Course Description:	Every architectural woodwork project is like a painting in a museum. Each work of arts' story can be told in 3 questions: What happened before? What's happening now? and, What's going to happen next? In one hour, 63 remarkable and often breathtaking images will illustrate emerging advances in woodwork design and function due to new technological developments that enhance the built environment in color, sound, line, form, mimicry, extreme detail, concealment, texture, preparation and anticipation. In this presentation, specification writers will also learn about some conditions that affect and relate to other materials and trades that come in contact with the woodwork and trends that are on the way out and why.
Learning Units:	
1.	Discover how computer aided technology is advancing large scale 3-dimensional design concepts in wood.
2.	Learn how woodwork can aid in the acoustics of a space
3.	Find new ways in which woodwork design imitates nature
4.	Raise your awareness of current and passing trends and why they are passing.
Biography:	<p>Honorary Lifetime Member of the Architectural Woodwork Institute, Margaret Fisher has been involved in the custom woodwork industry for over three decades. Recognized as an industry leader, she has served as President and Vice President of the Wisconsin Chapter and served on the AWI National Board of Directors.</p> <p>As AWI's most prolific speaker, thousands of design professionals and contractors all over North America have attended her educational programs on Quality Standards, Cores, Veneering, Moldings, Finishes, Using Wood in a LEED® project and how to overcome your fear of speaking which she has been authoring and instructing since 1997.</p> <p>Margaret Fisher is the Standards Co-Editor and Communications Strategist of the Architectural Woodwork Institute and contributes frequent articles in AWI's quarterly publications, Design Solutions.</p>



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Course Title:	Composite Rebar Leads to Advancements in Concrete Reinforcement
Presenter:	Paul Kane; Aloha Marketing Manufacturers Representatives, LLC
Course Date and Time:	May 4, 2018; 11:00 am to 12:00 pm
Course Number:	CI185422
Course Description:	Steel reinforcing was the standard of care in designing concrete for decades. Over time, steel can be compromised by various chemicals and conditions. This course will investigate options to steel reinforcement in concrete that offers greater protection against corrosion.
Learning Units:	
1.	Understand how rebar corrosion occurs and deteriorates concrete.
2.	Understand the liability associated with deteriorating rebar in different conditions
3.	Understand what options to steel rebar are available to designers
4.	Understand how to present the return on investment to clients that are watching the initial budget
Biography:	<p>Paul has been in chemical and construction materials sales and marketing for over 30 years. Having started with institutional and industrial chemical sales in the mid 80's and for the last 25+ years has been a sales representative and product manager selling a wide range of construction materials and has developed a number of products specifically designed for use in the Hawaii market for local and mainland manufacturers. Paul is the manager/owner of Aloha Marketing Manufacturers Representatives, LLC. Formed in 1998, Aloha Marketing represents a wide range of products for the West Coast, the Hawaiian Islands and Guam.</p> <p>Paul is the current West Region President of the Construction Specification Institute overseeing 11 chapters in the West.</p> <p>Paul has 2 children and when not working enjoys SUP, Fishing, both inshore and offshore. Paul is also a founding member of Hoakalei Country Club in his neighborhood in Ewa Beach, Hawaii.</p>



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Course Title:	1964 Earthquake
Presenter:	Dr. John Aho
Course Date and Time:	May 4, 2018; 12:30 pm to 1:30 pm
Course Number:	CI1854A3
Course Description:	The course will examine the seismicity of Alaska, review the damage from the 1964 Great Alaska Earthquake, examine why this earthquake is important today, and discuss current scientific activities.
Learning Units:	
1.	Understand what happen in the Alaska 1964 Earthquake regarding transportation and communication infrastructure and how it paralyzed Alaska
2.	Understand what lessons we learned and adjustments made in building design based on Alaska's 1964 earthquake
3.	Alaska buildings are still being monitored. Understand what we are still learning in preparation for the next large earthquake
4.	Understand how Alaska is better prepared to the next earthquake
Biography:	<p>Dr. Aho retired from CH2M HILL after 31 years as a vice president and principal project manager. He holds a Ph.D. in aerospace engineering from Cornell University with an emphasis in structural engineering. In 2004 his was awarded the Alaska Commendation Medal and a national USGS recognition for his work in seismic risk analysis. He received an Honorary Doctor of Sciences degree from UAA in 2006 for his work in earthquake engineering research. The Western States Seismic Policy Council Lifetime Achievement Award for Earthquake Risk Mitigation was presented to him at the National Earthquake Engineering Conference in Memphis, Tennessee on April 11, 2012.</p> <p>He has been involved as a project manager and/ or designer in over 300 projects located throughout the State of Alaska. Prior to returning to Anchorage, his city of birth, he was a structural engineering professor at an Indiana university. Dr. Aho has been a Federal Emergency Management Agency (FEMA) trainer in earthquake hazard mitigation of utility lifelines systems, and an instructor for State of Alaska post-earthquake damage assessment training. He has past experience on damage assessment teams in several places around the world.</p>



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Course Title:	Earthquakes, Geology and Geotechnical Engineering in Alaska
Presenter:	Adrian Bender and Buzz Scher
Course Date and Time:	May 4, 2018; 2:00 PM to 3:30 pm
Course Number:	CI1854A4
Course Description:	In Alaska, the Pacific plate is subsiding under the Alaska plate creating a different kind of earth movement than experienced along the west coast. This presentation will address geology in Alaska, specifically plate tectonics, mountains, the Aleutian Chain.
Learning Units:	
1.	Review Alaska's plate tectonics framework and the key hazards the continental faults pose
2.	Discuss earthquake moment magnitude and its relationship to fault size
3.	Understand ground movements during a seismic event
4.	Understand the effects of earthquakes on construction and what science is still learning
Biography:	Adrian drove to Anchorage shortly after finishing high school in southern Oregon, expecting one season of construction work and mountain adventures. That one season became eight years, part of which he spent earning his B.S. in Geology at the University of Alaska, Anchorage. Adrian earned his M.S. in Geology at Western Washington University soon after, then returned to Anchorage where he now works for the U.S. Geological Survey using remote, field, and laboratory techniques to facilitate research that improves the understanding of earthquakes and related hazards in Alaska.



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Course Title:	Selecting the "Right" System: Storefront, Window Wall, or Curtain Wall
Presenter:	Brad Glauser; Wassau Windows
Course Date and Time:	May 4, 2018; 2:00 pm to 3:30 pm
Course Number:	CI185414
Course Description:	need
Learning Units:	
1.	Understand the definitional differences between AW rated fenestration types. Developing the right budget expectations: balancing aesthetic, code & performance.
2.	Understand span, load, substrate interfaces, movement, and system types
3.	Understand the incorporation of ADA accessible operable windows and Terrace doors
4.	Ensure performance; envelope integration, weather-ability, energy efficiency and structural integrity
Biography: photo	need

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Course Title:	Building with Bamboo – Is it a Better Material?
Presenter:	Zack Zimmerman
Course Date and Time:	May 4, 2018; 2:00 pm to 3:30 pm
Course Number:	CI185424
Course Description:	Wood versus gypsum board versus wall materials, is there a product line that is better in today's market that will help you design a stronger and greener product than alternative stud based systems while lowering labor costs?
Learning Units:	
1.	Understand various types of wood used in construction, including bamboo. Attendees will discuss the reduction of a buildings ecological footprint as the results of specifying bamboo.
2.	Understand why products like bamboo can be an alternative, sustainable product and help to protect wood resources with a product that is easily grown and harvested.
3.	Understand the LEED credits that are available by incorporating bamboo as the core structural element.
4.	Understand the superior strength and environmental qualities of bamboo as a building material.
Biography:	 <p>Zack Zimmerman is passionate about environmental progress and sustainability. Growing up in the construction business, his background lends itself well to a company dedicated to sustainable building materials. A marketing degree with honors from Sonoma State University prepared him for the business world and mentoring from a father with 50 years of construction experience prepared him for the unique challenges that working for a company like BamCore would present. His ability to understand views of all parties involved in a building process through knowledge and understanding of the BamCore system and standard construction methods has been crucial to the success of BamCore. Now, as the Director of Business Development/CMO he is poised to help BamCore expand its brand, sales channels, and deliver its promise of sustainability to the markets</p>

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Course Title:	Building in Ice
Presenter:	Ed Yarmak
Course Date and Time:	May 4, 2018; 4:00 pm to 5:00 pm
Course Number:	CI1854A5
Course Description:	Building on permafrost is a challenge. This program will explore what permafrost is, why it exists, and how we can use it as a base for stable building foundations. Passive freezing systems have been commercially available since 1960, providing solutions to foundation problems that were once thought insurmountable. Examples of buildings on permafrost with modern passive refrigeration systems are presented. Additionally, retrofit to buildings that have experienced settlements due to thawing permafrost are also discussed.
Learning Units:	
1.	Understand the importance of keeping permafrost frozen and the consequences of thawing permafrost
2.	Understand how passive freezing systems work
3.	Understand the state of practice for design of foundations for structures using passive refrigeration on permafrost
4.	To learn about retrofitting passive refrigeration to existing structures on permafrost
Biography:	Ed Yarmak is the President of Arctic Foundations, Inc., a Past President of the United Stated Permafrost Association, Chair of the ASCE 32 Standards Committee on Frost Protected Shallow Foundations, and a member of the executive committee of ASCE's Cold Regions Engineering Division. Ed has been designing and building passive freezing systems for over 37 years. During that period, he has worked on freezing systems for foundations and earth structures throughout the permafrost zone in Alaska; and in Canada, Russia, Greenland, Sweden and Kyrgyzstan. Additionally, he's built permafrost in eastern Tennessee. Types of projects include public and private buildings, oilfield facilities, mining portals, embankments, towers, and waste (or hazardous material) containment. He has authored or co-authored 20 professional papers with primary topics being thermosyphons, permafrost foundations and frozen soil barriers.



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Course Title:	Roofs to Roads with Geofoam
Presenter:	Steve Francis and Stu Laidlaw; Insulfoam
Course Date and Time:	May 4, 2018; 4:00 pm to 5:00 pm
Course Number:	CI185415
Course Description:	Best Kept Secret From Roofs To Roads. EPS, a versatile light weight construction material that is hidden throughout Alaska, sometimes forgotten yet always working. Manufactured in Anchorage Alaska, expanded polystyrene is used as an industrial construction material, people and product protection, building insulation and structural load bearing material. Ideal for cold climates EPS has provided forty years of predictable performance throughout Alaska on commercial roofs, walls, roads, and runways. Sustaining and saving energy for the majority of commercial buildings a growing trend is toward unique solutions in lightweight structural fill applications. Let's visit numerous Alaska projects including Auke Bay, Juneau Alaska where Glacier Highway improvements avoided delays, protected salmon and made safer roads while using EPS Geofoam.
Learning Units:	
1.	Understand how EPS insulation is manufactured, its limitations, and its capabilities.
2.	Understand how to use EPS Insulation in above grade applications for vertical construction
3.	Why is it used? Understand how to differentiate proper use of EPS as insulation or light weight structural building material for below grade (roadway) construction
4.	How is EPS sustainable? Understand how EPS benefits the environment providing solutions today and for decades to come
Biography:	<div style="display: flex; justify-content: space-between;"> <div style="width: 30%;">  </div> <div style="width: 60%;"> <p>Both Steve and Stu visited Alaska and fell in love with its beauty and grander. With Steve's more than 30 years and Stu's more than 15 years of experience representing Insulfoam, the nation's largest manufacturer of expanded polystyrene (EPS) in the U.S. Steve Francis along with Stu Laidlaw will present details expanding your vision and understanding about Insulfoam EPS products in the Alaska construction industry "from roads to roofs."</p> </div> <div style="width: 30%;">  </div> </div>

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Course Title:	Technology Driven Manufactured Construction
Presenter:	DIRTT; Lynn Barrett
Course Date and Time:	May 4, 2018; 4:00 pm to 5:00 pm
Course Number:	CI185425
Course Description:	<p>Technology-driven manufactured construction is customized prefab construction for the building interior. The key is technology—real-time, interactive 3D software—that integrates with CAD, Revit and manufacturing software, bridging the gap between the client-design team and the manufacturer. The result is high-performance interiors that keep their value over time. This type of construction is especially suited to projects where speed is of the essence and when clients require certainty of price and quality.</p> <p>Manufactured construction promotes safety at the project site and can be specified to contribute to better indoor air quality. The ability to integrate technology hardware in the physical space, environmental sustainability and design control are other benefits.</p>
Learning Units:	
1.	Compare conventional construction and modular manufacturing with the differences realized by technology driven manufactured construction.
2.	Understand the control the design/client team has over the production facilities.
3.	Explore best practices for getting best outcomes (price, quality, speed) for this method of construction.
4.	Measure environmental sustainability as well as the health/safety/welfare for construction trades and occupants.
Biography:	<p>Lynn Barrett is the Alaska Representative for DIRTT (Doing It Right This Time) Environmental Solutions. DIRTT is the largest manufacturer of pre-fab interior construction in North America. In 2005, Lynn joined the DIRTT Team, founded Paragon Interior Construction and began to modernize the Alaskan construction industry. DIRTT’s pre-fab solutions offer a sustainable, clean and rapid approach to building out interiors.</p> <p>Lynn works with clients, architects, designers and general contractors around the State of Alaska and Washington educating them on DIRTT’s 21st Century Pre-Fab Construction Solution.</p>



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Course Title:	Building in Rural Alaska
Presenter:	Brennan Walsh; STG, Inc.
Course Date and Time:	May 5, 2018; 9:00 am to 10:00 am
Course Number:	CI1855A1
Course Description:	Many of Alaska's Communities are not accessible by the road system. This course will review the logistics of building off the road system.
Learning Units:	
1.	Understand the logistics required to move materials to remote job sites
2.	Understand the cost of materials in remote villages
3.	Understand labor ability/cost of specialized labor in remote villages
4.	Understand the need of partnering with the community in construction projects
Biography: photo	need

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Course Title:	2018 Global Color and Design Award Trends
Presenter:	Susan A. Williams; PPG
Course Date and Time:	May 5, 2018; 9:00 am to 10:00 am
Course Number:	CI185511
Course Description:	<p>This presentation focuses on the Global Color & Design Trends of 2018, as researched and identified by PPG’s international team of color experts and specialists in North America, Europe, and Asia, in the areas of architecture, automotive, consumer products and aerospace. Throughout the creation of this work, our teams are constantly reviewing the information for evidence of a word or topic that conveys an idea that can be linked to each new trend. This year, that theme is CORE-RELATION. An obvious play on the word Correlation, it indicates that there is a root relationship between all aspects of the whole: Connection, Optimization, Naturalism and Rebellion. The word CORE is highlighted separately to emphasize how deeply we, as consumers, feel connected to the underlying social and cultural ties of each theme. We feel them at our core or heart, and they compel us forward down new paths.</p>
Learning Units:	
1.	Gain color confidence knowing that the trends presented are based on cross disciplined global input.
2.	Identify the overarching societal trends driving your client’s desire for change.
3.	Recognize color combinations that will be at the leading edge of trends providing lasting style.
4.	Uncover aspects of the color trends that will resonate with your client’s natural inclinations.
Biography:	<p>Susan Williams is the Color & Design Specialist and Architectural Specifications Representative serving the Puget Sound area for PPG Paints. She has been in the paint and coatings industry for over 20 years and brings a wealth of experience and expertise in color, fabrics, furniture, and design. Susan brings a unique combination of sales, customer management, and color planning to the design industry. She has provided design solutions to a variety of commercial and residential customers throughout her career. Susan earned her bachelor's degree in business from Immaculata University. She also has her Design Certificate from Moore College of Art in Philadelphia.</p>



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May 4 and 5, 2018

Course Title:	Inappropriate Use of Tools
Presenter:	Beth Stroshane, CCS, LEED, AP; Applied Building Information, LLC
Course Date and Time:	May 5, 2018; 9:00 am to 10:00 am
Course Number:	CI185521
Course Description:	<p>Specifications are a tool to communicate non-graphical project information. This tool was designed to solve a specific set of problems and has remained largely unchanged for decades. But the industry is evolving daily, and specifications are no longer serving the industry as well as they once did. We need a better tool.</p> <p>In this presentation, we'll look at the features designed into today's specifications and the problems those features were designed to solve. We'll also look at new problems and see how today's specifications are failing to address the needs of multiple delivery methods currently in use.</p> <p>We need to solve these new problems and make specifications a better tool. Improving specifications would impact specification writers, architects, product representatives, and teachers. Come help design the new tool.</p>
Learning Units:	
1.	List the key features in writing today's specifications
2.	Explain the writing problems those features were designed to solve
3.	Understand new problems that specifications do not address
4.	Inspire new solutions that will make tomorrow's specifications a better tool
Biography:	 <p>Beth Stroshane is Managing Partner of Applied Building Information LLC, an independent specifications consulting firm based near Seattle, Washington. Prior to starting the practice in 2013, she wrote specifications for large architecture firms in the Seattle area. Beth works on a wide range of projects: she produces specifications for new buildings and renovations of existing facilities, serves public and private clients, and participates in design/bid/build, design/build, and negotiated contracts. Currently Beth is writing specifications for a Living Building Pilot project in Fremont. She is also active in CSI (Construction Specifications Institute) and speaks nationally at industry events.</p>

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Course Title:	Rural Utilities – off the Beaten Path
Presenter:	Martin Miller; Coffman Engineers
Course Date and Time:	May 5, 2018; 1:30 pm to 3:00 pm
Course Number:	CI1855A2
Course Description:	Let’s face it, utilities are boring. Architects don’t want to see or hear – or smell – them. Owners don’t want to pay for them, but we all rely on them daily. In rural Alaska, residents are acutely aware of their utility infrastructure, due to both visibility and an understanding of its direct impact to their well-being. This course outlines standard practices for design of utility infrastructure in rural Alaska’s isolated communities. It also highlights lessons learned, trends and technological disruptions impacting the industry.
Learning Units:	
1.	Raise awareness of how utility infrastructure impacts the built environment
2.	Raise awareness of electric utility challenges and best practices in rural Alaska
3.	Raise awareness of water/sewer challenges and best practices in rural Alaska
4.	Raise awareness of fuel system challenges and best practices in rural Alaska
Biography:	 <p>Martin has 15 years of design and project management experience in Alaska and abroad. He began his career working on commercial HVAC design, based in Anchorage, a job that allowed him to travel to all corners of the state. More recently, he worked for an electric utility company, primarily focused on implementing renewable energy projects in rural Alaskan communities. In his current role, Martin is responsible for project management and design for utility, commercial, and industrial clients throughout Alaska, from the North Slope oilfields to isolated fishing communities, with projects including power generation, energy storage, district heating, energy efficiency and integrating renewable energy generation – including solar, wind, and biomass - into isolated electrical grids throughout Alaska.</p> <p>Martin’s experience in all phases of project planning, design, commissioning, and O&M provides a perspective on construction practices and pitfalls in rural Alaska, and those specific to rural utilities.</p>

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Course Title:	High Rise Buildings with Special Attention to NFPA 285
Presenter:	Ron Geren
Course Date and Time:	May 5, 2018; 1:30 pm to 3:00 pm
Course Number:	CI185512
Course Description:	High-rise buildings pose additional hazards that are not common to buildings of lower height. High-rise buildings place occupants at heights that cannot be reached by the most sophisticated fire-fighting equipment, requiring first responders to use a building's means of vertical transportation to reach the location of an emergency event. As experienced during the terrorist attacks on September 11, 2001, high-rise buildings can also suffer from forces not previously thought to be of a great concern. More recently, the Grenfell Tower fire in London has raised concerns about exterior wall cladding systems used on high-rise buildings. This presentation will address the IBC requirements applicable to high-rise buildings that have either responded to tragic events or prevented tragic events from occurring.
Learning Units:	
1.	Know the definition of a high-rise building per the <i>International Building Code</i> .
2.	Understand the fire-protection and means-of-egress features required for high-rise buildings.
3.	Understand the special construction requirements for high-rise buildings.
4.	Understand the requirements for exterior wall assemblies, including compliance with NFPA 285, applicable to high-rise buildings.
Biography:	Ronald L. Geren is the owner of RLGA Technical Services, a specifications and building code consulting firm in Scottsdale, Arizona. He has over 30 years' experience in the construction industry, which includes projects covering many building types such as residence halls, classroom and office buildings, libraries, multifamily residential, commercial office and retail, religious, theaters, and military. Ron is a professor of architecture at the School of Architecture at Taliesin where he teaches construction documents, building codes, practice management, and building construction technology. He is also a member of the AIA Codes and Standards Committee. Ron is the author of "Applying the Building Code: Step-by-Step Guidance for Design and Building Professionals." Ron is a certified construction specifier, a certified construction contract administrator, and a certified building plans examiner, and is currently the Institute Board Chair.



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Course Title:	The Future of Design using Augmented/Mixed Reality with Revit
Presenter:	Wes Peper; Coffman Engineers
Course Date and Time:	May 5, 2018; 1:30 pm to 3:00 pm
Course Number:	CI185522
Course Description:	How we collaborate on our projects is changing rapidly. We are at the forefront of a new transition into the future of design using augmented/mixed reality. During this session you will see a live demonstration of how the Microsoft HoloLens can be used to view your Revit projects in a way like you have never seen before. Complete Revit models can be imported directly into your environment to do a full walk-thru, do takeoffs, and see if what was designed fits in the reality of the project site. At Coffman Engineers we are just beginning to harness the collaborative power of this incredible tool. At the end of this session you will learn about the apps associated with design in an augmented/mixed reality environment and learn tricks on working within it.
Learning Units:	
1.	Understand how to use OneDrive to view construction documents in a mixed reality environment.
2.	Understand how to use virtual walkthrough as a design/communication tool.
3.	Understand the benefit of clash identification to coordinate construction documents to changes and problems in the field.
4.	Understand how you can do markups to REVIT in a mixed reality environment working with the designer to get edits done in a fast and efficient manner.
Biography:	Over the past 22 years Wes Peper has been the Corporate IT Manager for Coffman Engineers leading a team to support 14 offices and 450 employees for all of their computer needs. Coffman Engineers is a company that provides creative and practical multidiscipline engineering solutions that helps clients succeed. They are proud to be ranked #198 in Engineering News-Record's 2017 Top 500 Design Firms list. Their IT team prides itself on delivering top-level support and providing innovative solutions to help the company succeed in everything they do. Wes also speaks at seminars and professional conferences delivering messages on technology and following your dreams.
	

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Course Title:	Structural Design at the South Pole
Presenter:	Scott Gruhn; BBFM
Course Date and Time:	May 5, 2018; 3:30 pm to 5:00 pm
Course Number:	CI1855A3
Course Description:	<p>The United States recently constructed a new science facility at the South Pole. This course recounts design decisions made to overcome almost otherworldly challenges, as well as a site visit to the South Pole Station to oversee construction and occupancy.</p> <p>Mixed in for good measure is a discussion about one of the largest and most expensive scientific experiments of all time.</p>
Learning Units:	
1.	Recognize challenges with ultra-remote construction
2.	Identify design practices that are crucial in cold weather regions
3.	Explore the complexities of building a structure on snow, which creeps over time
4.	Understand the importance of human-centered design in one of the coldest, darkest places in the world
Biography:	<p>Mr. Gruhn is a principle at BBFM Engineers and has worked in the field of structural engineering for 27 years. A lifelong Alaskan, Mr. Gruhn attended the University of Kansas, where he earned a Bachelor of Science in Architectural Engineering with a focus in structures. Outside of work, Mr. Gruhn spends time with cross-country skiing, kayaking, climate science, church, and his family of four.</p>
	

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Course Title:	Avoiding Paint Specifications Pitfalls
Presenter:	Mike Murphy; MASCO Coatings Group
Course Date and Time:	May 5, 2018; 3:30 pm to 5:00 pm
Course Number:	CI185513
Course Description:	This course will focus on the most common specifying methods with emphasis on Master Painters Institute (MPI) history and how to use their systems effectively. We will discuss how MPI specs are structured and what common errors to avoid. We will also talk about how to make sure that the intended levels of quality can be achieved using MPI-based specifications. We will examine some of the attributes that affect quality and performance of paints and coatings and where to find the relevant information you need.
Learning Units:	
1.	Understand what are the common paint specifying methods?
2.	Understand how are specifying systems structured?
3.	Understand how to avoid common paint specifying pitfalls
4.	Understand four things to look for when comparing submittals
Biography:	Mike Murphy is West Coast Architectural Manager for Behr Paint. Mike was previously Specifications Manager, Miller Paint Co. in Oregon/Washington Prior to his tenure with Miller Paint, Mike was Architectural Sales Manager for Comex/Parker Paint for over 18 years. Mike holds the CSI CCPR Advanced Certification and is a Level 1 NACE Inspector. He is a Past President of the CSI Mt. Rainier Chapter and is currently Vice President of the San Francisco Chapter and President-Elect for the Northwest Region.



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May 4 and 5, 2018

Course Title:	Permeation & Crack Isolation - What Every Architect, Specifier, and Contractor Should Know.
Presenter:	Dean Moilanen; Noble Company
Course Date and Time:	May 5, 2018; 3:30 pm to 4:30 pm
Course Number:	CI185523
Course Description:	Is your approach to waterproofing up to date? With the advent of so many new and different products for waterproofing and crack isolation, you need to address permeation and isolation before making any final product decisions. This presentation reviews the evolution of waterproofing and crack isolation as well as current best practices. Permeation and crack isolation are two critical performance criteria that often escape scrutiny when evaluating best practices with regard to waterproofing and crack isolation. This presentation focuses on these key performance metrics. Attendees will leave armed with the know on how to objectively evaluate products and systems for future projects.
Learning Units:	
1.	Review the history of crack isolation and permeation and the important role they play in successful tile installations.
2.	Review current ANSI and ASTM standards with regard to crack isolation and waterproofing.
3.	Explore the interconnected relationship between waterproofing, crack isolation, and permeation with regard to a successful waterproofing installation.
4.	Outline the critical path to ensure that your projects successfully address these critical areas of performance.
Biography:	Dean Moilanen is a Division 9 waterproofing, crack isolation, and permeation specialist who advises on some of the most demanding and prestigious projects in the USA. As a 30-year veteran of the tile industry, Dean's relationships with architects, builders, and owners allow him access to some of the most challenging and compelling design issues in the industry. Dean's extensive career on job sites gives him a real-world perspective as he has seen first-hand success and failure relating to product selection, installation issues, and sequencing challenges.
	

