

Programs for the Dallas Meeting (January, 2013):

Seminar 11 (Intermediate)

Sunday, January 27, 2013, 11:00 AM-12:30 PM

Moisture Control in Commissioning of New and Existing Buildings

Sponsor: 7.9 Building Commissioning, 4.4 Building Material and Building Envelope Performance

Track: Facility Management; Operations, Technology and Energy Improvements

Room: Lone Star A1

Chair: Mike Eardley, P.E., Member, Cannon Design, Boston, MA

Moisture control in the commissioning process is based on project requirements for moisture problem avoidance, building assessment, field testing, and building science. This seminar focuses on the interaction of building systems that affect moisture in buildings and demonstrates important lessons learned by use of case studies.

Learning Objectives:

1. Understand gaps that may exist for moisture control in HVAC and building envelope commissioning within current commissioning guidelines, commissioning standards, and other standards that address moisture control.
2. Analyze why moisture control in HVAC and building envelope commissioning of new and existing buildings is a hybrid process.
3. Apply building assessment and testing procedures to the moisture control commissioning processes.
4. Learn about the building enclosure commissioning process and objectives, throughout the pre-design, design, construction and occupancy phases.
5. Describe the current building enclosure commissioning industry guidelines and standards.
6. Understand the design review process of commissioning and the application of design principles, to avoid moisture related problems in the building envelope details and interaction between building systems.

1. Providing Moisture Control Solutions in Building Commissioning

Donald Snell, Member and George Dubose, Member, Liberty Building Forensics Group, Zellwood, FL

The value of building commissioning is a well documented and recognized process. The development and execution of building systems commissioning with a comprehensive owner's project requirements summary may separately yield good results, however the operating interaction of these systems can result in building moisture problems. This presentation will describe how moisture control in building commissioning is a hybrid process and seek to explain the elements of this process. We will also describe the

interaction of the heating, ventilating and air conditioning system, the building envelope system, and the driving forces between them.

2. The Art and Science of Building Enclosure Commissioning

Fiona Aldous, Wiss, Janney, Elstner Associates, Inc., Irving, TX

Building enclosure commissioning (BECx) is a process to enhance the quality and delivery of the design, construction and operation of the enclosure. Primary to the success of a building enclosure is the control of moisture in its various forms; specific to climate, building function, and the design of the building assembly. We will examine the enclosure commissioning process via two case studies, one in a hot-humid climate and the other in a cold climate. We will emphasize the role of the design review in the control of moisture, and the role of construction observation and field testing.

Seminar 64 (Basic)

Wednesday, January 30, 2013, 9:45 AM-10:45 AM

Healthcare Commissioning and the Authority Having Jurisdiction

Sponsor: 7.9 Building Commissioning

Track: Facility Management; Operations, Technology and Energy Improvements

Room: Lone Star A1

Chair: Rocky Alazazi, Member, Executive Director, City of Taylor, Taylor, MI, Taylor, MI

The University of Michigan Health System just opened a new 1.1 million square foot children's and women's hospital. The University utilized extensive commissioning from the design phase through completion. This session demonstrates how the commissioning authority played a very large role in preparing for the final inspections and achieving the certificate of occupancy.

Learning Objectives:

1. Explain how commissioning can help ensure smooth certification from Authority Having Jurisdiction.
2. Describe the commissioning authority's role in the building walk-through.
3. Determine how to specify appropriate levels of effort for the commissioning authority to meet expectations.
4. Demonstrate how commissioning is essential to functional and energy efficient operation.
5. Identify the various building systems that should be included in the commissioning scope.
6. Review the critical elements of healthcare facilities that require special attention.

1. Opening a New Hospital: A Case Study

Matthew Tunnard, Member, Horizon Engineering Associates, Detroit, MI

This presentation will discuss the testing, certification and interaction between the commissioning authority and AHJ. The presentation will feature the perspective from both the owner and commissioning provider.