Programs for the San Antonio Meeting (June, 2012):

Seminar 31 (Intermediate)
Monday, June 25, 2012, 11:00 AM-12:00 NOON

Commissioning the Building Envelope
Sponsor: *7.9 Building Commissioning*
Track: *HVAC&R Fundamentals and Applications*
Room: *CC 001B*
Chair: *Mike Eardley, P.E., Member, Cannon Design, Boston, MA*

This seminar focuses on the complexities of building envelope commissioning, specifically examining the differences and interactions between typical mechanical and building envelope commissioning from pre-design through post occupancy. Various commissioning techniques and testing procedures utilized by the presenters are discussed.

Learning Objectives:

1. Understand the interaction between building envelope and mechanical systems.
2. Identify the differences between MEP commissioning and building envelope commissioning, using industry Guidelines as a reference.
3. Understand the overall phases of building envelope commissioning with emphasis on pre-design and design phases of building envelope commissioning.
4. Review typical building envelope test procedures.
5. Offer strategies for tracking and resolving identified issues.
6. Discuss the project considerations for various testing schemes such as laboratory, field-mockup, or whole building verification.

1. Leading the Commissioning Process for the Building Envelope
David Cantrill, Commissioning & Green Build Solutions Inc., Duluth, GA

2. Design and Field Testing Considerations for the Building Envelope
Fiona Aldous, Wiss, Janney, Elstner Associates, Inc., Irving, TX

Seminar 35 (Intermediate)
Monday, June 25, 2012, 2:15 PM-3:15 PM

Integrating Design, Commissioning and BMS Controls to Deliver Mission Critical Success
Sponsor: *7.9 Building Commissioning*
Track: *Integrated Building Controls*
Room: *CC 007D*
Chair: *Gerald J. Kettler, P.E., Life Member, AIR Engineering and Testing, Carrollton, TX*

Mission critical facilities require a unique holistic approach to design, controls and commissioning to ensure maximum system reliability. Going beyond the traditional approach and establishing a more unified automation project team provides the best opportunity to meet the client owner's project requirements (OPR) while minimizing total cost of ownership (TCO). Integration of these critical project team members throughout all project phases from planning through operations is critical to optimizing a facility that is reliable and easy to own and operate. Best practices at various stages are explored including ways to setup projects for success. Case studies are presented providing lessons learned that have helped develop and improve this non-traditional approach.

Learning Objectives:

1. Gain insight into benefits and strategies for successfully integrating controls and commissioning throughout the project lifecycle.
2. Identify critical "things to consider" when developing specifications and selecting contractors
3. Review best practices for controls and commissioning scope and roles in mission critical facilities
4. Understand the special requirements of operations staff in mission critical facilities and how this approach can assist that role in ensuring system reliability.
5. Demonstrate communication strategies to prevent silos of information.
6. Discuss why commissioning is a necessary element of mission critical facilities.

1. Mechanical System Commissioning of Mission Critical Facilities
Justin Seter, Member, DLB Associates, Atlanta, GA

Best practices at various stages are explored including ways to setup projects for success. Case studies are presented providing lessons learned that have helped develop and improve this non-traditional approach.

2. Controls and Automation for the Commissioning Process
Sean Graham, P.E., Member, DLB Associates, Atlanta, GA

Integration of these critical project team members throughout all project phases from planning through operations is critical to optimizing a facility that is reliable and easy to own and operate. This presentation will review the intent of sequences of operations, and why they are a necessary element for a high performing mission critical facility.

Seminar 51 (Basic)
Tuesday, June 26, 2012, 11:00 AM-12:30 PM

Existing Building Commissioning Process: Best Practices
Sponsor: *7.9 Building Commissioning*
Track: *HVAC&R Fundamentals and Applications*

Room: *CC 103B*
Chair: *Mark "Dusty" Wheeler Jr., Member, Honeywell, Washington, DC*

This session outlines the activities involved in performing the Existing Building Commissioning Process (EBCxP) by presenting best practices according to ASHRAE Guidelines as well as case studies.

Learning Objectives:

1. Understand the tasks involved in Existing Building Commissioning
2. Understand the basics of best practices for Existing Building Commissioning based on the soon to be published ASHRAE guideline GPC 0.2
3. Understand how the best practices of the ASHRAE Guidelines were applied to actual facilities.
4. Discuss how the Existing Building Commissioning process can produce energy savings with less than a two year payback.
5. Demonstrate what types of improvements are found and are possible through the Existing Building Commissioning process.
6. Describe the energy penalty when Ongoing Commissioning is not pursued.

1. Existing Building Commissioning Process (EBCxP): Best Practices
Bill Dean, National Research Council of Canada, Saskatoon, SK, Canada

2. Existing Building Commissioning (EBCx): Case Studies
Holly Townes, P.E., Member, Puget Sound Energy, Bellevue, WA

3. On-Going Commissioning for Existing Buildings: Case Studies
David E. Claridge, Ph.D., P.E., Fellow ASHRAE, Texas A & M University, College Station, TX