



Mid-Columbia Chapter

American Society of Heating, Refrigerating and Air Conditioning Engineers

Building Commissioning Workshop

WEDNESDAY
APRIL 25, 2007

WSU-Tri Cities Campus
Consolidated Information
Center (CIC) Classroom 120
(<http://www.tricity.wsu.edu/kiosk/MainMap.htm>)

8:00 AM registration/breakfast
8:30 AM to 12:00 PM workshop

Who Should Attend?

- Building and Design Professionals
- Owners
- Commissioning Authorities
- Project Managers
- Facility Managers
- Contractors
- Building Planners

REGISTRATION

COST: \$180 each

Team Discount: \$160 each

For three or more registered attendees
from the same employer

RSVP: Email or call Wei Jiang

Wei.jiang@pnl.gov

509-372-6256

Pay at the door with registration on
April 25. Cash or check only.

Need to Know More?

Bing.Liu@pnl.gov or 509-375-3710

This half-day workshop will provide a clear understanding of the building commissioning process (CxP) and what the process typically involves. Created for design engineers and architects, building owners, facility managers and commissioning authorities, this workshop presents case studies of specific projects to reinforce the process, and describes how they can implement the program into their organization to make new building projects and existing building operations more successful.

Workshop Outline

8:00 Registration, Breakfast

8:30 Welcome/Introduction/Workshop Overview

8:40 Why Commission Anything

- Review typical problems encountered in new buildings
- Case study of commissioned and non-commissioned project

9:10 What is Commissioning

- Commissioning process and Cx Plans
- How Cx integrates into the project timeline
- Re-Commissioning and Continuous Commissioning processes
- Commissioning required for LEED projects

10:10 Break

10:20 Case Studies

- Case study of three actual commissioned projects

11:20 Break

11:30 Getting started with Cx

- How to prepare a Request for Qualification or Request for Proposal for Cx services
- When to initiate the process
- Planning for the cost of Cx in the project planning and budgeting phase
- Cost of Cx and Payback

12:00 Adjournment

About the Instructor

Mr. Don Davenport has 29 years experience in HVAC energy analysis, commissioning, retro-commissioning, troubleshooting, system design, and construction management. As the Executive Vice President of EMC Engineers, Inc in Denver, CO., Don has been in responsible charge of projects in excess of \$100 million in construction. His engineering projects include new and renovation/retrofit for K-12 schools, universities, institutional, healthcare, and industrial clients. These projects have included many high performance systems for buildings, including LEED certified projects.



Mr. Davenport has conducted workshops for commissioning, retro-commissioning, and diagnosing HVAC system performance national wide. In addition, Don has presented on topics from commissioning and retro-commissioning to high performance system design and baselining system operations. Don is a registered professional engineer and ASHRAE member.