

Programs for the Denver Meeting (June, 2005):

Forum 6

Sunday, June 26, 10:15-11:05 AM

The Commissioning Handbook Chapter: Last Chance for Input

Sponsor: TC 07.09 Building Commissioning

Moderator: Charles Culp, P.E., Member, Texas A&M University, College Station, TX

This forum seeks input before revising the commissioning chapter in the ASHRAE Handbook.

Symposium DE-05-08

Monday, June 27, 10:15 AM - 12:15PM

High-Tech Facility Commissioning

Sponsor: TC 07.09 Building Commissioning; TC 09.09 Mission Critical Facilities, Technology Spaces and Electronic Equipment

Chair: Richard M. Rose, Member, Mechanical Technology Inc., Billings, MT

Commissioning has become an important contribution for the success of buildings. This symposium shows its importance in complicated high-tech buildings that may have special needs and severe consequences if those needs are not met. Four scenarios showing the importance and processes used in commissioning high-tech buildings are shared.

1. CX of Bio-Containment Facilities

Charles D. Kieffer, P.E., Member, University of Texas System, Austin, TX

2. Electronic Test Room Commissioning

William McCartney, Member, Isotherm Engineering Ltd, Mississauga, ON, CanadaY

3. An Owner's Perspective on the CX of Mission Critical Facilities

Terry L. Rodgers, Member, Fannie Mae, Washington, D.C.

4. CX Combined with CFD for Datacom Performance, Adaptability and Reliability

Donald L. Beaty, P.E., Member, DLB Associates Consulting Engineers. P.C., Ocean, NJ

Seminar 32

Tuesday, June 28, 8:00-10:00 AM

ASHRAE 62.1-2004: The Building Component Feature

Sponsor: SSPC 62.1; TC 05.12 Ventilation Requirements and Infiltration; TC 07.09 Building Commissioning

Chair: Hoy Bohanon, P.E., Member, Bohanon Engineering PLLC, Clemmons, NC

ASHRAE Standard 62.1-2004 will contain a new methodology for calculating ventilation rates. The procedure has two components: one based on the number of occupants in the space and the other based on the size of the space. This session focuses on the second of these: the building component. The session explores the history of this development, the underlying science and practical implications to HVAC designers.

1. Standard 62's New Ventilation Rate Procedure and Ventilation Requirement Based on Floor Area

Andrew K. Persily, Ph.D., Fellow, National Institute of Standards and Technology, Gaithersburg, MD

2. Summary of Data for Building Related Pollution Load and Addition of Sensory Pollution Loads for the Calculation of Required Ventilation Rates

Pawel Wargocki, Ph.D., Technical University of Denmark, Lyngby, Denmark

3. How to Apply New 62.1 Default Ventilation Requirements for Low-Emitting Buildings to Typical Buildings

Elia M. Sterling, Member, Theodor Sterling Associates Ltd., Vancouver, BC, Canada

4. The Role of Chemicals Used in Commercial and High-Rise Residential Buildings

John DiFazio, Member, Consumer Specialty Products Association, Washington, D.C.

5. Required Ventilation Rates and Emission from Building Materials

Bjarne W. Olesen, Ph.D., Fellow, Technical University of Denmark, Lyngby, Denmark

Seminar 46

Wednesday, June 29, 8:00-10:00 AM

Factors in Commissioning DDC Control Systems

Sponsor: TC 07.09 Building Commissioning

Chair: Rodney H. Lewis, P.E., Fellow, Rodney H. Lewis Associates, Inc., Houston, TX

Verification of the performance of DDC systems is vital to the performance of HVAC systems. Attendees will gain insight into their problem projects from the experience of presenters.

1. Functional Testing of Control Components

Gerald J. Kettler, P.E., Member, Air Engineering & Testing, Inc., Dallas, TX

2. Tuning DDC Systems

Robert L Towell, P.E., Member, CXE Group LLC Engineers and Architects, St. Louis, MO

3. DDC Commissioning from the Consulting Engineer's Perspective

Kenneth C. Peet, P.E., Member, LSE Engineering, Inc., Louisville, KY

4. Importance of More Prescriptive Sequences

Jay Santos, P.E., Member, Facility Dynamics Engineering, Columbia, MD

5. Reviewing Program Code Prior to Testing

Karl Stum, P.E., Member, CH2M Hill, Portland, OR