

Programs for the Atlanta Meeting (January, 2019):

Workshop 2 (Advanced)

Sunday, January 13, 2019, 11:00 AM-12:30 PM

Turning to Old Buildings: Optimizing and Upgrading Our Existing Building Stock

Sponsor: 7.9 Building Commissioning, YEA Committee

Room: Building A, A302

Track: Construction, Operation, and Maintenance of High Performance Systems

Chair: Cindy Moreno, Member, T & M Mechanical Sales Co., Mesa, AZ

Throughout the United States, construction costs are increasing while open land for new construction use is diminishing. How do we assist owners, developers and school districts in making the most of existing buildings? This session explores the financial aspect of upgrading existing buildings, explore energy reduction ideas, equipment replacement projects and the financial calculations and incentives which assist owners in penciling out the subsequent budgets. Engineers learn how to motivate and educate owners on how to invest in their existing portfolio stock while reducing overall building energy use.

1. Exploring the Financials: Motivating Building Owners to Upgrade Energy Systems

Alyse Falconer, P.E., Member, Point Energy Innovations, San Francisco, CA

2. Barriers to Successful Building Owner Energy Savings Initiatives

Richard Danks, P.E., Member, Cleveland, OH

3. Leveraging Utility Rebates in Offices and Multi-Family Residential Buildings

James Falconer, Member, Affiliated Engineers, San Francisco, CA

4. All the Design Elements We Cannot See: A Case Study of Barrington School District 220

Shona O'Dea, Member, DLR Group, Chicago, IL

Seminar 44 (Intermediate)

Tuesday, January 15, 2019, 8:00 AM-9:30 AM

How was that Supposed to Work Again? The Importance of Documented and Understandable Sequences of Operation throughout the Life Cycle of a High Performance Building

Sponsor: 7.3 Operation and Maintenance Management, 7.9 Building Commissioning

Room: Building A, A404

Track: *Construction, Operation, and Maintenance of High Performance Systems*
Chair: *Mina Agarabi, P.E., Member, Agarabi Engineering PLLC, New York, NY*

Facilities personnel come and go. Training to understand the HVAC system in their building is always a challenge. A properly constructed narrative and graphical style Sequences of Operation is potentially the best training tool available as subsequent generations of building personnel are trained. This seminar discusses how a narrative sequence can serve the purposes of both immediate construction and long term operations.

1. Different Writers, Different Readers, Different Styles

James Coogan, P.E., Associate Member, Siemens Building Technologies, Chicago, IL

2. Case Study: Comparing Effective and Ineffective SOO

Bill Gnerre, Member, Interval Data Systems, Waltham, MA

3. The SOO as a Tool for Construction and Operations

Michael Gallagher, P.E., Member, Western Allied Corporation, Santa Fe Springs, CA
