

BEC Houston

Presentation

MECHANICAL SYSTEM DESIGN AND THE BUILDING ENCLOSURE

Tuesday, November 18, 2008

5:00 to 6:30 PM

AIA Houston Architecture Center

315 Capitol, Houston, TX 77002

(See the attached map)

RSVP to Mat at: Mat@aiahouston.org or 713.520.0155

PROGRAM DESCRIPTION: MECHANICAL SYSTEM DESIGN AND THE BUILDING ENVELOPE

The program addresses the interaction between HVAC systems and building enclosures.

Topics will include:

- The impact of building pressurization on the envelop performance
- Learn about the stack effect and its impact on the building envelop infiltration
- Understanding wall R values and Perm ratings
- Understand the difference between the calculated vs effective “R value” of an exterior wall or roof.
- The impact of inherent thermal transfer and construction issues on mechanical system design.
- Understand the impact of air infiltration and how it is accounted for in the mechanical load calculations.
- Discussion of the glass type and the radiant heat values on comfort in near glass areas

PRESENTER: STEVE REDDING, P.E. LEED AP

Mr. Redding is a President of Redding Linden Burr, a mechanical /electrical/plumbing consulting engineering firm in Houston. Mr. Redding has over 35 years experience in design of heating, ventilating and air conditioning systems for new construction, renovations, energy studies and building assessments. He received his Master of Science in Mechanical Engineering from Rice University in 1971 and is a Registered Professional Engineer in over 25 states. He is a LEED Accredited Professional and his firm has worked on more than 20 LEED projects. Steve is active in ASHRAE (recently serving as Houston Chapter president), the Rice Design Alliance and AIA (as an Associate Member).

FUTURE PROGRAMS

Dates: The BEC Houston programs are targeted to be on the third Tuesday of each month.
Location: Unless otherwise advertised all future BEC Houston programs will be at the new AIA Houston Architecture Center at 315 Capitol.
Parking: Parking is available in the Hobby Parking Garage located close by. See the attached map.
Questions: For questions related to confirmation of the topic, timing and location call Jill Sales at 713.520.0155

Future Topics: December 16 Façade Access and Exterior Maintenance for Sustainable Buildings

January 20 Designing for the Gulf Coast – A Galveston Architect's Perspective