

SEA-WI

Newsletter

April 2012

Wisconsin Energy Institute Tour, Madison, Wisconsin by David Boldt

Structural engineers and affiliated professionals in the Madison area recently had their third opportunity of the 2011-2012 SEA-WI programming year to tour a local project. Mortenson Construction opened the gates to their Wisconsin Energy Institute (WEI) project for our group on the sunny but brisk afternoon of April 10, 2012.

In the project office, a large flatscreen display monitor mounted into the underside of the plan table allowed us to take a virtual tour through the Navisworks coordination model and check the current webcam views to get an overview of the project before exploring the building in person. Our group stopped periodically not only to admire the terrific views of Lake Mendota and the UW-Madison campus, but also to discuss structural challenges that were addressed during design and construction.

We learned how concrete pan joists were determined to be the most economical system for the lab spaces on the north half of the building due to the need to minimize vibration; structural steel was determined to be a better option for the office spaces on the south half of the building. Separating the labs from office on each level are two narrow "lightwell" spaces that bring in natural light to the center of the building. We discussed how these features as well as the odd-shaped site affected A&O's design of the lateral system of reinforced concrete shear walls. We also discussed how the structural design was modified at various points during design development in response to architectural changes for the south elevation of the building, which faces a residential area.

Special thanks go to Paul Karow and Amanda McGraw of Arnold & O'Sheridan and Mike Brasser of Mortenson Construction for speaking to our group and offering their insights. A social hour was held at the Great Dane following the tour.



David Boldt, EIT



**Wisconsin
Energy
Institute**



April 2012

2012 ICC Code Adoption?

The SEA-WI Legislative committee, along with the Alliance of Regulatory Regulation (ARC), is petitioning the Wisconsin Department of Safety and Professional Services to adopt the 2012 editions of the International Building Code, the International Energy Conservation Code, the International Mechanical Code, the International Fuel Gas Code, and the International Existing Buildings Code.

Board of Directors- Nominations

Treasurer

Monitors the cash flow of the organization and makes disbursements when directed by the Board of Directors. Provides an annual report indicating how funds were spent in the prior year. Presents a proposed budget to the BOD that can be discussed and voted on. Works with the Membership Chairperson to determine the renewal status for all existing members and initial payment of new members. Pays national dues by August 31st. Participates in monthly Board of Director meetings, either in person, or via conference call.

Regional Director

Lives and/or works in the region of which they are representing. Works with the Continuing Education/Programming Chair to coordinate events in the region. Works with the Membership Chair to increase membership in the region. (The quantity of events and membership gains shall be based on the goals set by the board of directors in July of each year.) Participates in monthly Board of Director meetings, either in person, or via conference call.

President Elect

Shall participate in monthly Board of Director meetings, either in person, or via conference call, in a learning role. Serve on one supporting committee as requested by the Board of Directors. This position is held for one year, followed by President for one year, and concluded by Past-President for another year..

Nominations for the offices of Treasurer, South-East Regional Director, South-West Regional Director, and President Elect will be accepted during the month of May. Please email Bob Steckel at mail@seawi.org to nominate someone or yourself for one or more of these positions.

For your information...

On May 1st, we are having a joint **construction tour** of the **Moderne** Building in Downtown Milwaukee with **AIA** - Milwaukee. **Chris Bielefeld** from **GRAEF** will be leading a tour group and he will be discussing the structural system and the construction of this high-rise building.



The Moderne



AIA Milwaukee

SEA-WI

www.sea-wi.org