

THE BADGERAIRE

AMERICAN SOCIETY OF HEATING, REFRIGERATING, AND AIR CONDITIONING ENGINEERS, INC.



Shaping Tomorrow's
Built Environment Today

March 27, 2014: Modine Facility Tour

March Program & Social Gathering

The March program for 2014 is a tour of the Modine production facility in Racine. The tour will be held on March 27th at 1500 Dekoven Ave, Racine, WI 53403.

Attendees should arrive between 4:30 and 5:00 PM. At 5 o'clock, an introduction of Modine will be given and the tour(s) will begin at 5:15. Dinner will follow - at 6:30.

This program is a joint gathering with AFE.

Modine, with fiscal 2013 revenues of \$1.4 billion, specializes in thermal management systems and components, bringing highly engineered heating and cooling technology and solutions to diversified global markets. Modine products are used in light, medium and heavy-duty vehicles, heating, ventilation and air conditioning equipment, off-highway and industrial equipment and refrigeration systems. Modine is a global company headquartered in Racine, Wisconsin (USA), with operations in North America, South America, Europe, Asia and Africa.

For nearly a century, Modine has been a trusted name for commercial, industrial and residential heating, ventilating and air-conditioning solutions. Hundreds of thousands of HVAC-related products bear the Modine badge across North America along with other popular Modine brands such as the Hot Dawg(r) and Effinty93(r) unit heaters, and the Atherion(r) packaged ventilation system.

For more information about Modine HVAC products, visit www.modinehvac.com

Time: March 27th, 5PM

Place: Modine, 1500 De Koven Ave, Racine, WI 53403

Dinner: Follows at 6:30

Please [register](#) in advance.





President's Column February 2013

Hello Wisconsin Chapter!!

I hope this column finds you all doing well. Slowly but surely, we are getting back to "normal" temperatures here in our beloved state of Wisconsin. Hopefully, summer will not bring similar extremes as we've seen this winter, as that would most likely mean "draught."

This month's meeting will be a Tour of the Modine Manufacturing Facility in Racine, WI on the evening of March 27th. You can sign-up on our webpage at <http://ashrae-wi.org/events/>. We look forward to seeing you there.

I would like to extend a special thanks to Mr. Terry Townsend for visiting us and conducting a two day training seminar on the bEQ Program. The seminar was the first of its kind and was held at J.F. Ahern in the Valley. We had 19 participants, which included the City of Milwaukee. The City allowed the group to tour the Atkinson Branch Library and conduct a Level 1 Energy Audit of the facility. Society is hoping that Milwaukee will participate in the program, making them the 1st Pilot Program in the Country.

We give another special thanks to last month's Distinguished Lecturer, Mr. Ron Jarnigan. He spoke on the topic of Advanced Energy Design Guides – Going Beyond Minimum Standards. While he was in town, Ron also gave a presentation that same day at Marquette University for the Mechanical Engineering Department. He presented on the ASHRAE Headquarters Renovation Project and it was well received by the students and faculty.

Thank you everyone who attended last month's Advanced Energy Design Guide meeting at Meyer's Restaurant. We had a good turnout for the presentation, as this was the first time we held an

event there. For those that were in attendance at the meeting, if you did not receive your CEU Certificate, please contact Jason Nenonen at jnenonen@jfahern.com. Jason will be forwarding a certificate for the bEQ Training participants too.

I want to draw your attention to the Architectural Engineering Institute Conference Call for Papers (see multi-page add in the preceding pages). I hope that some of our members will find the time to submit papers for this conference. The Institute does a very good job at bridging disciplines of the "built environment."

I continue to encourage the membership body of the Chapter to attend our monthly meetings, provide feedback to us regarding operations, topics, and how we can improve as your Chapter Officers, as well as supporting other members within the Chapter. Please don't forget, We, the Board of Governors, are here to serve you, the industry that supports Us. You can contact me directly at jleffingwell@hga.com.

Have a great month people and enjoy the warm weather!

Jason Leffingwell
President of "The" Wisconsin Chapter of ASHRAE

P.S. This is a reminder to the membership that each monthly meeting you attend, your name will be entered in our end of year raffle. The more you attend, the higher your chances are of winning, so make sure you are present at the meetings. We will have some great prizes for the Chapter.

Buildings In Balance Webcast

April Webcast
Topic: Buildings in Balance: IEQ and Energy Efficiency
Event: Free Webcast
Date: April 17th, 2014
Time: 1:00PM to 4:00PM
Website: <https://www.ashrae.org/IEQwebcast>

This webcast will feature industry experts who will identify the link between energy efficiency and Indoor Environmental Quality (IEQ) through the

integrated design process. Viewers will be able to recognize the importance of the four cornerstones of IEQ and how system selection can benefit both energy efficiency and IEQ. This FREE webcast program will broadcast live via the internet.

(3) PDH's will be awarded to viewers of the live webcast that complete the Participant Reaction Form online by May 2nd, 2014 (included at link above).

April Program

The chapter program scheduled for Thursday **April 17, 2014** will include a presentation by Lewis Harriman, a Fellow of ASHRAE. Lewis Harriman is the Director of Research at Mason-Grant Consulting in Portsmouth, NH. He has an extensive background in energy, humidity and moisture in buildings and industrial processes.

Registration and Social are from 5:30 to 6:00 PM. The presentation will run from 6:00 to 7:00 PM.

The program will be held at Bucca Di Beppo located at 1233 N Van Buren St, Milwaukee.

Presentation Topic: Real World Integrated Design Solutions

Presentation Description:

Speaker Lewis Harriman of Mason-Grant Consulting joins us to discuss integrated design. The presentation will focus on methods for energy savings, improved occupant comfort and cost savings relating to the integrated design process. Real-world examples will provide a look at the interaction between architects and engineers on both productive and problematic project related instances. This presentation will be of interest to architects, building managers, energy auditors, mechanical engineers and students.



(Pictured Above: Lewis Harriman)

CALL FOR PAPERS & PRESENTATIONS



Architectural Engineering Institute Professional Conference

Milwaukee, Wisconsin | March 24 – 27, 2015



Birth and Life of the Integrated Building



www.asce.org/aeiconference2015

About the Conference

The Architectural Engineering Institute (AEI), in partnership with the Milwaukee School of Engineering (MSOE), is pleased to announce the 6th Biennial Professional Conference for 2015. The theme of the conference is the **“Birth and Life of the Integrated Building.”**

The conference offers an opportunity for members of the building construction industry, including structural, mechanical, and electrical engineers, construction management professionals and architects, to learn about and discuss advanced strategies and state-of-the-art practices of building technology. The conference will feature presentations on building integration, as well as the latest technology in the many areas of the building design, construction, and maintenance. The conference offers a balance between academics and practice and will offer presentations, panel discussions, workshops, technical paper sessions, invited and keynote presentations, and local tours of technical interest.

Industry professionals will benefit from presentations by experts in the fields of structural, mechanical, and electrical design and construction management as they relate to integrated building systems. Members of academia will benefit from presentations on current research initiatives and opportunities to network with practitioners. Students will benefit from interacting with industry professionals and peers from universities other than their own.

DETAiLS ABOUT YOUR SUBMiSSION

You are invited to submit a proposal for an individual paper or presentation for consideration. Please note that attendance and registration are required for all presenters. The American Society of Civil Engineers (ASCE) does not reimburse or pay the presenter's costs to attend the conference nor reimburse for preparing and presenting papers and presentations.

Abstracts/proposals, a maximum of 300 words, should be submitted for consideration by **April 2, 2014**. Papers and Presentations should consider focusing on suggested topics published in this announcement. Please note that items listed in ***bold italics*** are ***focused topics*** of particular interest.

All submissions should be sufficient to judge the quality and appropriateness of the work for consideration in the conference. Papers and presentations will be selected from the open call, as well as by special invitation. Submissions will be reviewed by the AEI Technical Proceedings Sub-committee (TP) for decisions on acceptance. Criteria used to review and evaluate the abstracts/sessions include, but are not limited to technical content, quality of presentation and the goals of the AEI Conference Committees.

Abstracts/proposals should be clearly marked with the names, titles, credentials and affiliations of authors and co-authors, presenters and co-presenters. The name, organization, address, phone number and email address of the primary author/presenter should be included. Authors/Presenters should indicate whether they elect to organize a partial session or a full 90-minute session.

All sessions will be offering professional development hours (PDHs) to conference attendees.

Please note that it is the author's/presenter's responsibility to obtain any necessary permissions and/or approvals from employers, project owners, clients, photographers, or other parties prior to final submission. Material included in your submission from previously published sources, including the Internet, may require permission from the copyright holder of that publication or website. It is the author's responsibility to obtain the permission for reuse of this material and include the appropriate credit information in the paper or presentation.

To submit a paper or presentation for consideration at the 2015 AEI Professional Conference, please visit the Call/Submission page at www.asce.org/aeiconference2015.

Should you have additional questions about the submission process, please contact Carol Kurlancheek at ckurlancheek@asce.org or 703-295-6228.

Call for Papers

Authors of accepted abstracts, who wish to be **published** and present at the conference, are required to submit a 10-12 page final paper for inclusion in the proceedings. The proceedings will be copyrighted and published electronically by ASCE (on a CD or other media). Authors may submit individually or as part of group (3-5 abstracts) to form a full session proposal.

A selection of papers will be reviewed for possible publication in two special issues of the **ASCE Journal of Architectural Engineering**. Please note that power point presentations will not be published by ASCE, but will be distributed separately.

Call for Presentations

AE practitioners, proposing a presentation only, are encouraged to focus subjects on the most current industry practices in a vendor neutral format. They may be developed by single or multiple presenters, or may be a panel discussion. Please note that power point presentations will not be published by ASCE, but will be distributed separately.

Please Note:

- The login name and password used for the abstract upload to the paper management system will be the same for the final paper upload. This cannot be changed to a different login name and password.
- Allowable file types are Word 2003 (.doc)/2007 (.docx), or rich text format (.rtf). No columns or PDFs.
- Please make sure you can accept e-mails from mirasmart.com



DEStinAtiOn

Conference Hotel

The Pfister Hotel
424 East Wisconsin Avenue
Milwaukee, WI 53202 USA
1-800-558-8222
www.thepfisterhotel.com

Milwaukee: "A City to Unwind in"

Milwaukee is located on the shores of Lake Michigan in southeastern Wisconsin, about 90 miles north of Chicago. Milwaukee is the home to major corporations including Miller Brewing Company, Harley-Davidson Motor Company, Northwestern Mutual Life, and Johnson Controls.

Milwaukee's architectural achievements include the Milwaukee Art Museum, designed by Santiago Calatrava; Miller Park, home of the Milwaukee Brewers Baseball Club; the largest four sided clock in the world at Rockwell Automation; and the Milwaukee City hall, once the tallest habitable building in the United States! (Well, it was some time ago...) Not far from the city of Milwaukee is Frank Lloyd Wright designed Johnson Wax Company (Racine, WI) and the home and studio of Frank Lloyd Wright (Spring Green, WI).

While you are in Milwaukee, don't miss these attractions:

- Milwaukee Art Museum (walking distance from the conference venue) or the Harley-Davidson Museum (a short taxi ride from the conference venue)
- Tour Miller Brewery or one of Milwaukee's other microbreweries
- Take the family to Discovery World (walking distance from the conference venue)
- Enjoy a Friday fish fry at one of the local restaurants – a Milwaukee tradition!

On EXHiBiting

Showcase your company at an exhibit table during the AEI CONFERENCE where attendee networking events and food and beverage breaks take place several times a day. Please contact **Drew Caracciolo**, ASCE Sales, at dcaracciolo@asce.org or at 703.295.6087. Please visit the conference website at www.asce.org/aeiconference2015 for more information.

On SPOnSORing

This biennial event attracts attendees from practice, academia, government, industry, and allied fields. Highlight your company by sponsoring and having your company's name added to our list of 2015 AEI CONFERENCE sponsors. To learn more about sponsorship opportunities and associated benefits, please contact **Drew Caracciolo**, ASCE Sales, at dcaracciolo@asce.org or at 703.295.6087. Please visit the conference website at www.asce.org/aeiconference2015 for more information.

KEY DATES

Session Proposals and/or Abstracts Due	April 2, 2014
Notification to Authors of Acceptance	May 14, 2014
Draft Papers Due	July 23, 2014
Final Papers Due (No extensions)	November 19, 2014
Power Point Presentations Due	March 4, 2015

All submissions must be uploaded to the MIRA Paper Management System for consideration.

LOCAL PLAnninG COMMITTEE

Conference Chair

Christopher Raebel, Ph.D., P.E., S.E.

Milwaukee School of Engineering, Milwaukee, WI

Scott Campbell, Ph.D., P.E., M.ASCE

Structural Analysis Consulting Group, Milwaukee, WI

Dawn Rossmiller, P.E., M.ASCE

Jacobs Engineering, De Pere, WI

Blake Wentz, Ph.D., CPC, LEED AP, A.M.ASCE

Milwaukee School of Engineering, Milwaukee, WI

Chris Ulm, P.E.

Ring & DuChateau Consulting Engineers, Milwaukee, WI

Jason Leffingwell, E.I.T., LEED AP

HGA Architects & Engineers, Milwaukee, WI

Josh Szmergalski, SM.AEI (National Student President)

Milwaukee School of Engineering, Milwaukee, WI

nAtiOnAL ConFERenCE STEERinG COMMITTEE

Chair, Conference Steering Committee

Ali Memari, Ph.D., P.E., F.ASCE

The Pennsylvania State University, University Park, PA

Chimay Anumba, Ph.D., P.E., F.ASCE

The Pennsylvania State University, University Park, PA

Kenna Chapin, P.E., F.AEI

Wallace Engineering, Tulsa, OK

Mohammed Ettouney, Ph.D., P.E., D.M.ASCE

Weidlinger Associates Inc., New York, NY

Adam Hapij, P.E., M.ASCE

Weidlinger Associates Inc., New York, NY

Mark McAfee, P.E., F.AEI

Dudley Williams and Associates, P.A., Wichita, KS

Mark Sarkisian, P.E., S.E., LEED AP, M.ASCE

Skidmore, Owings & Merrill LLP, San Francisco, CA

Carol Kurlancheek, P.E., LEED AP, M.ASCE

ASCE Architectural Engineering Institute, Reston, VA

SUGGESTED CONFERENCE TOPICS

Topics listed in ***bold italics*** are **focused topics** and the committee encourages proposals for these special sessions.

BUILDING ENVELOPE

- Curtain wall design and retrofit
- ***Dynamic façade systems***
- Innovative products for curtain walls
- ***Policy and incentives for high performance design***
- Service life and construction criteria
- ***Solar design***
- Structural sealant glazing systems
- Thermal behavior and design
- ***Transparency, photovoltaics, “smart glass”***
- Wind-borne debris resistant curtain walls

BUILDING MATERIALS

- Building sustainability
- Composite and innovative materials in buildings
- Polymer composites
- Properties of materials (creep, durability, etc.)

BUILDING STRUCTURAL SYSTEMS

- Blast design methods for buildings
- Connections and anchors
- Design guides, codes and standards
- Design to resist wind loads
- Earthquake design and retrofit
- Progressive collapse methods
- Structural characterization and validation
- Structural design of buildings for serviceability
- Structural modeling and analysis
- Vibration and deflection control and serviceability

BUILDING MECHANICAL SYSTEMS

- ***Bio fuel cells in building design***
- Building energy performance
- ***Chilled beams and retrofitted induction unit technology***
- Commissioning
- Controls systems
- Innovative heating and cooling technologies
- Retrofit of mechanical systems within existing buildings

INTEGRATED SYSTEMS

- ***Carbon neutral, net-zero-energy, zero-carbon and self-sustaining buildings***
- Controls systems
- Design process visualization and integration
- Performance-based engineering
- Smart buildings and urban environments

BUILDING ELECTRICAL AND POWER SYSTEMS

- ***Distributed generation and cogeneration***
- Energy harvesting from non-traditional sources
- ***Integration of fire protection, egress and communication systems***
- Powering low demand devices
- Strategic planning for integration and optimization of flows
- Sustainable energy initiatives

BUILDING SECURITY

- Building security assessment
- Building security standards
- Continuity of operations
- HVAC security design
- ***New sustainable materials in fire and life safety systems***
- Protection of buildings from chemical and biological threats
- ***Rapid alert systems for building occupants (dynamic route guidance systems, integrated audio/video technology, wireless systems, etc.)***
- Security for critical infrastructure protection
- Sheltering in place

ARCHITECTURAL SYSTEMS / INTERIOR DESIGN

- Acoustics
- Fire Protection Systems and smoke containment
- ***Healthier and safer buildings for families with children***
- ***Improve the social-communal experience of occupants***
- ***Integration of buildings in historic urban districts***

DESIGN AND CONSTRUCTION PROCESS AND MANAGEMENT

- Building integration solutions
- Construction project control
- Cost and economics considerations
- FIAPP, BIM, Interoperability
- Front-end planning for buildings
- Life-cycle perspective and cost analysis
- ***New construction methods and systems for complex projects***
- Operational service considerations in facility management
- Performance of constructed facilities
- Planning: methods and applications
- Productivity studies
- QA/QC testing
- ***Strategies to increase the speed of construction (e.g., lean)***

FORENSICS AND MULTI-HAZARD ENGINEERING

- Behavior of facilities during extreme events
- Building failures: structures, foundations, envelope, etc.
- Building robustness studies
- Field investigations and lessons learned
- Multi-hazard reliability and risk assessment
- Reliability issues

ARCHITECTURAL ENGINEERING EDUCATION

- Architectural engineering capstone design courses
- Emerging trends in AE education in the United States

AEI
CONFERENCE





Join us at

ASHRAE's 2014 Annual Conference

June 28—July 2

Seattle, Washington

www.ashrae.org/seattle



Join us at **ASHRAE's 2014 Annual Conference**
June 28–July 2 | Seattle, Washington | www.ashrae.org/seattle

Special first
time attendee
registration fee
available!

Join ASHRAE in Seattle! Take advantage of the opportunity to discuss and examine the latest topics in the building industry, such as high performing buildings and integrated design, through the technical program; participate in technical tours; attend ASHRAE Learning Institute courses; and earn professional credits.

Research Summit – held in conjunction with the 2014 Annual Conference. The summit addresses the latest research results, innovative research techniques and forecasts future research directions.

Technical Program – presentations and papers focus on current research worldwide; core HVAC&R applications and systems; and Integrated Project Design, Energy Modeling and Building Efficiency Performance.

Networking – share ideas and learn from fellow members from your hometown and around the world.

ASHRAE Learning Institute – choose from two full-day professional development seminars and seven half-day short courses to stay current on new HVAC technologies.



Upcoming Chapter Meetings-Mark Your Calendars!

Meeting Date	Topic	Speaker	Location	Time
March	Modine Facility Tour		1500 Dekoven Ave, Racine, WI 53403	4pm
April	Real World Integration Design Suggestions	Lew Harriman (DL)	Bucca Di Beppo located at 1233 N Van Buren St, Milwaukee	5:30pm
May	End of Year Social		TBD	TBD
June	Recess			
July	Annual Golfing Outing		TBD	TBD

Other Chapters

For details regarding *surrounding chapter* meetings see:

- Northeast Chapter <http://www.newisconsinashrae.org/>
- Madison <http://www.ashraemadison.org/>
- Illinois www.illinoisashrae.org.

Wisconsin Chapter Officers and Committee Chairs

President	Jason Leffingwell
Vice President	Jason Nenonen
Secretary	Jared Wasielewski
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Refrigeration Chair	Phil Golden
Membership	Chris Staab
Research Promotion Chair	Randy Sikkema
Student Chapter Coordinator	Dave Schneider
Historian	Tim Pann
Newsletter Chair and Editor	Brian Lynch
Online Communication	Joe Carmichael
YEA	Andy Brophy
Special Activities	Mike Jahner
Golf Outing	Joe Schmidt
Scholarship	Dan Young

Wisconsin Chapter of ASHRAE