

**Wisconsin Chapter of ASHRAE**

**IS PRESENTING A SEMINAR**

For Resource Promotion Committee

THURSDAY, MARCH 15, 2012 from 8:00 AM TO NOON

At MARQUETTE UNIVERSITY

ALUMNI MEMORIAL UNION

1442 W Wisconsin Ave (location 61 on the attached map)

Milwaukee, WI 53233

ROOMS AMU 157 and 163

People can park in the 16<sup>th</sup> Street Parking Structure (location #55) for \$5/day.

REGISTRATION 7:30 AM TO 8 AM

Coffee, water and muffins available

<b>TWO CONCURRENT SESSIONS WITH TWO SEMINARS PER SESSION</b>	
<b>ACOUSTICAL SOLUTIONS</b>	<b>VARIABLE REFRIGERANT FLOW – ENERGY RECOVERY AND DEDICATED OUTSIDE AIR SYSTEMS VRF – ERV - DOAD</b>
<b>ROOM AMU 163</b>	<b>ROOM AMU 157</b>
<b>8:00 AM TO 9:45 AM</b>	<b>8:00 AM TO 9:45 AM</b>
<b>SOUND HEALTHCARE 2012</b>	<b>VRF part load curve info and library info and creating VRF models in Trace 700.</b>
<b>10:00 AM TO 11:45 AM</b>	<b>10:00 AM TO 11:45 AM</b>
<b>ACOUSTICAL SOLUTIONS FOR UNIVERSITIES</b>	<b>Using Energy Recovery and Dedicated Outside air to supplement VRF</b>

**COST:**

**\$50.00 per person for two (2) Seminars (lunch included)**

**\$30.00 per person for one (1) Seminar (lunch included)**

UNIVERSITY AND TECHNICAL COLLEGE STUDENTS FREE

**ALL FUNDS TO GO TO RESOURCE PROMOTION FUND**

CEU's and PDH's will be available upon request

**REGISTRATION:**

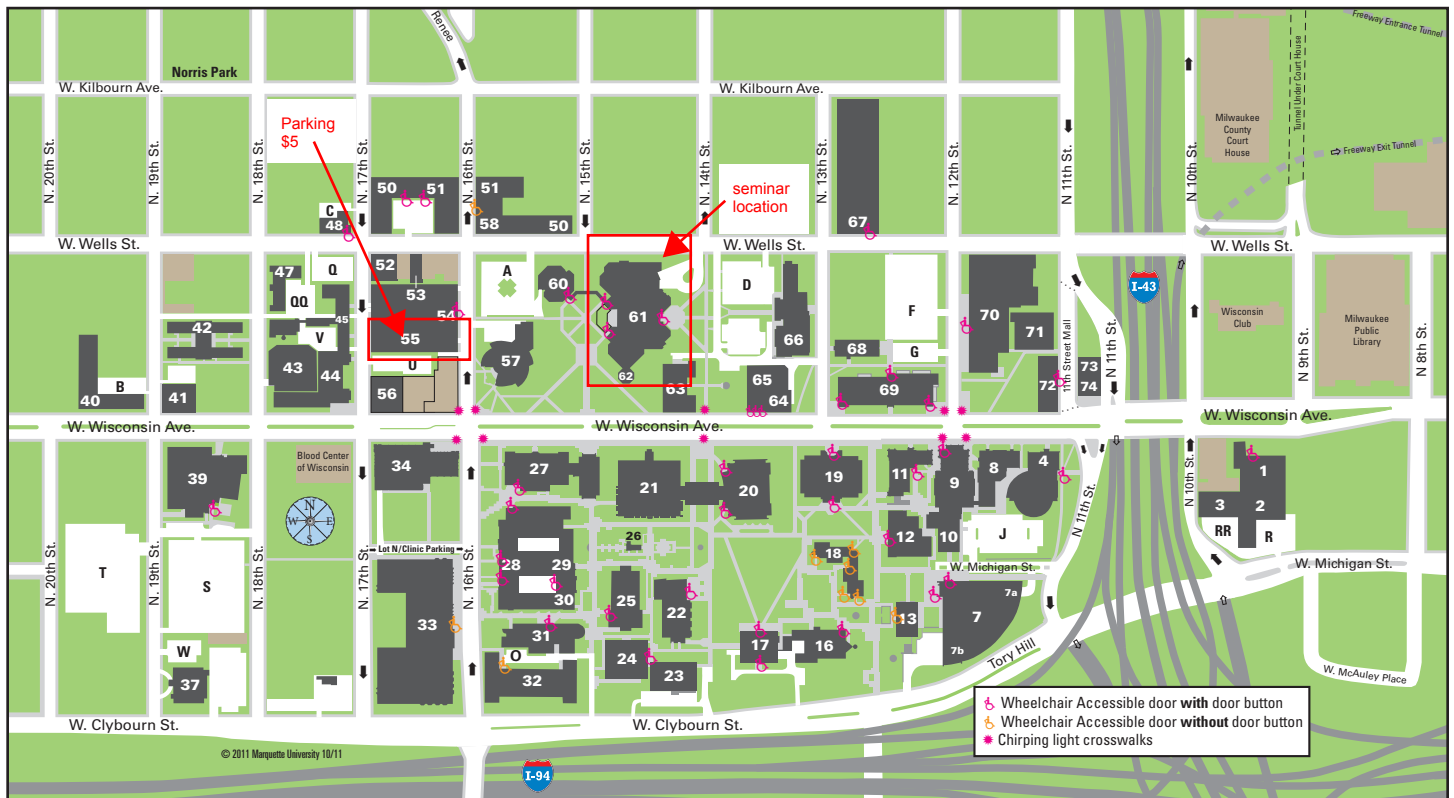
[www.ashrae-wi.org](http://www.ashrae-wi.org)

click on registration

**TWO CONCURRENT SESSIONS**

<p><b>ACOUSTICAL SOLUTIONS</b></p>	<p><b>VARIABLE FLOW REFRIGERANT – ENERGY RECOVERY AND DEDICATED OUTSIDE AIR SYSTEMS</b> VFR – ERV - DOAS</p>
<p style="text-align: center;"><b>SOUND HEALTHCARE 2012</b></p> <p><b>Kenric Van Wyk</b>, President of Acoustics By Design, will present this seminar.</p> <p>This seminar uncovers the basic acoustical principals in LEED for Health Care and it outlines the acoustical standards found in its source documents, The FGI Guidelines for the Design and Construction of Healthcare Facilities and Sound and Vibration. These requirements are being adopted as building code across the United States and in many countries around the world, so the information affects everyone from architects and interior designers to healthcare professionals.</p> <p>LEARNING OBJECTIVES: Upon completion, participants are able to:</p> <ul style="list-style-type: none"> <li>• Show how acoustical points can be earned in LEED for Health Care</li> <li>• Describe how healthcare facilities are affected by the speech privacy requirements of HIPAA</li> <li>• Understand the acoustical principals in the Sound &amp; Vibration 2.0 document</li> <li>• Identify the 6 Acoustical Sections in the 2010 FGI Guidelines</li> </ul>	<p style="text-align: center;"><b>THE TRACE 700 / ENERGY PRESENTATION</b></p> <p><b>Matt Rash</b> is a Mitsubishi City Multi Applications Engineer and will present this seminar</p> <p>Discussion of VRF efficiency advantages. Evolution and discussion of new VRF related test standards. Discussion of ASHRAE 90.1-2010 VRF prescriptive minimum efficiency benchmarks and AHRI directly and Energy Star. Discussion of major requirements for VRF modeling software. Discussion of VRF part load operation characteristics curves and how that equates to accurate energy analysis. Discussion of limitation with entering detailed VRF part load curve info and library info into Trace 700 software. Detailed explanation of creating VRF models in Trace 700.</p>
<p style="text-align: center;"><b>ACOUSTICAL SOLUTIONS FOR UNIVERSITIES</b></p> <p><b>Kenric Van Wyk</b>, President of Acoustics By Design, will present this seminar.</p> <p>This seminar covers the basic architectural acoustics concepts and specific acoustical issues which must often be addressed during the design process of many different university spaces. Acoustics By Design, Inc. is an engineering firm specializing in architectural acoustics, noise and vibration control, and audio-visual systems design.</p> <p>LEARNING OBJECTIVES: Upon completion, participants are able to:</p> <ul style="list-style-type: none"> <li>• Identify how the background noise level criteria and the reverberation time criteria set forth in LEED for Schools apply to university facilities.</li> <li>• Investigate university facilities for compliance with the acoustical criteria in the ANSI Standard S12.60 on Classroom Acoustics.</li> <li>• Assess educational spaces for both utility and acoustical performance criteria in three university case study projects.</li> <li>• Evaluate the top 5 features and benefits of utilizing acoustical design principals in university facilities.</li> </ul>	<p style="text-align: center;"><b>OUTSIDE AIR PRE-CONDITIONING AND ENERGY RECOVERY AND VRF TODAY</b></p> <p style="text-align: center;"><b>Doug Bergmann</b> – Vice President Masters Building Solutions</p> <p>VRF technology has quickly gained acceptance in the marketplace and a key to a successful project is providing properly conditioned ventilation air. Doug Bergmann will provide an overview of the various energy recovery technologies and OA preconditioning equipment in the marketplace. The discussion will review the pros and cons of various systems as well as take into consideration the size of the project, budget constraints, and controls integration. The presentation will discuss products currently available in the marketplace and products that will be coming in the near future.</p>

# Marquette University Campus Map



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TECHNICAL SEMINAR

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