Innovation for a Sustainable Future

ASHRAE Thailand Chapter

ASHRAE Chapters Regional Conference

Super-CRC-2016

Conjunction with the BoD & ExCom Meeting

Oct 3rd - 5th, 2016

Region XIII 19th CRC

BoD & ExCom 1st Oversea Meeting

Region-At-Large

www.ashrae.org
### Morning Session

#### Keynote Speaker 1: Timothy G. Wentz (Tim Wentz) (9:00-9:30)
**Topic:** Thailand Energy Policy

#### Keynote Speaker 2: Timothy G. Wentz (Tim Wentz) (9:30-10:10)
**Topic:** The Future of Our Industry and ASHRAE’s Role

<table>
<thead>
<tr>
<th>Title</th>
<th>Description</th>
<th>Speaker</th>
</tr>
</thead>
<tbody>
<tr>
<td>The Future of Our Industry and ASHRAE’s Role (9:30-10:10) (Keynote)</td>
<td>See how the change in the future could affect in all aspects to our industry. What are the roles of new technologies in the future. How ASHRAE responds to such a change especially in term of integrated design through ASHRAE standards and guidelines. Keep up building performance through integrated design with the help from new technologies and evaluating key performance of the building.</td>
<td>Timothy G. Wentz. (Tim Wentz) (Keynote Speaker) ASHRAE Society President (2016-17) Mr. Wentz is the Associate Professor of Construction Management in the University of Nebraska. Professor Wentz graduated from the University of Nebraska with a Bachelor of Science degree in Mechanical Engineering and a Masters degree in Business Administration. He is a registered professional engineer in Nebraska, Colorado, South Dakota, and Wyoming. He holds both Master Heating Contractor and Master Plumbing Contractor licenses, is a LEED Accredited Professional (AP-BD&amp;C) and ASHRAE’s new certification as a High performance Building Design Professional (HPDP).</td>
</tr>
<tr>
<td>International Standards for The Indoor Environment - Where Are We and Do They Apply Worldwide? (10:40-11:20)</td>
<td>On the international level ISO (International Organization for Standardization, CEN [European Committee for Standardization] and ASHRAE are writing standards related to the indoor environment. Several of these standards have been developed mainly by experts from Europe, North America and Japan, thus guaranteeing a worldwide basis. Are there, however, special considerations related to other parts of the world (lifestyle, outdoor climate, and economy), which are not dealt with in these standards and which will require revision?</td>
<td>Bjørn W. Olesen, Ph.D. ASHRAE Society President - Elect (2016-17) Mr. Olesen is the Professor in Technical University of Denmark. Master’s degree in civil engineering, 1972. Ph.D., Laboratory of Heating and Air Conditioning, Technical University of Denmark, 1975. The Society of Heating, Air-Conditioning and Sanitary Engineers of Japan. Vice president of ASHRAE and Honorary member of AICARR (Italian Society for HVAC) is active in several ASHRAE-CEN-ISO-DIN standard committees regarding indoor environment and energy performance of buildings and HVAC systems. Has published more than 350 papers including more than 60 peer reviewed journals.</td>
</tr>
<tr>
<td>The Coming Age of a Smart Grid and Smart Buildings (11:20-12:00)</td>
<td>The smart grid is coming and in that future era buildings will be interacting even more with the electric utilities. The communication will be in both directions, with the utility working to balance the grid supply and demand through methods such as signaling requests for demand response measures, real-time price adjustments, etc.</td>
<td>Thomas M. Lawrence, Ph.D. ASHRAE Director-at-Large (2016-17) Dr. Lawrence is a Senior Public Service Associate with the University of Georgia, and has 30 years of professional experience in engineering and environmentally related fields. Before going back for his Ph.D. in Mechanical Engineering at Purdue, he spent approximately 20 of those years in industry and consulting. He is the chair of ASHRAE Technical Committee 2.8, “Building Environmental Impact and Sustainability”, and is a member of the committee which wrote the ASHRAE standard on high-performance green buildings (Standard 189.1).</td>
</tr>
<tr>
<td>Intelligent Buildings – Technology is changing what is possible in the built environment (12:00-13:40)</td>
<td>There is a lot of buzz around Intelligent, or Smart Buildings, but what is an Intelligent Building? This presentation will examine the answers to this question and how you can put your building on its path to a “higher education”. The intelligent building platform will result in a more efficient, secure and productive asset that has the capacity to continuously improve over its lifetime.</td>
<td>Jim Vallort (James K.Vallort) ASHRAE Society Vice-President (2014-16) Jim is a Senior Vice president with ESD headquartered in Chicago, IL, a consulting engineering firm. Jim also serves as an ASHRAE Society Vice President for the 2015-2016 Board of Directors. He currently serves as a member of Standard Project Committee 211P, Standard for Commercial Building Energy Audits, and Technical Committee (TC) 7.9, Building Commissioning. Jim previously served on the Board as a Director-at-Large in 2005-06 and as Region VII Director and Regional Chair in 2001-04.</td>
</tr>
<tr>
<td>Fundamentals of Ultraviolet Germicidal Irradiation for Air and Surface Disinfection (14:40-15:20)</td>
<td>Germicidal radiation produced by low pressure mercury vapor lamps and other sources is seeing increasing application both for air and surface disinfection and for control of biological growth on surfaces. This presentation provides an overview of the fundamentals of ultraviolet germicidal irradiation (UVGI) including principles of operation, component characteristics, system types, applications, and published evidence</td>
<td>Dr. William P. Bahnflieth, Ph.D., P.E., FASHRAE, FASME, FISIAQ Professor and Director of the Indoor Environment Center in the Department of Architectural Engineering at the Pennsylvania State University. William Bahnflieth is a fellow of ASHRAE, the American Society of Mechanical Engineers (ASME), and the International Society of Indoor Air Quality and Climate (ISIAQ). He has served ASHRAE in a variety of capacities, including Student Branch Advisor, Chapter Governor, Technical Committee and Standing Committee Chair, and as Director-at-Large, Vice President, Treasurer, and 2013-14 Society President. He is the recipient of a 1st place ASHRAE Technology Award, Transactions Paper Award, and Distinguished Service and Exceptional Service Awards.</td>
</tr>
<tr>
<td>Natural Comfort (15:20-16:00)</td>
<td>Learn how natural comfort can be a viable alternative to achieving thermal comfort in hot and humid region, especially when demand for air conditioning has been over escalating with soaring electricity cost.</td>
<td>Mr. Kecha Thirakomen CEO of EEC Group Bangkok, Thailand As an ASHRAE DL &amp; Fellow, HVAC engineer with more than 40 years of experience, Mr. Kecha Thirakomen is an expert in large-scale and high-rise building designs. Not only is he a pioneer in the use of DOAS and humidity control for indoor thermal comfort, but he is also known for his work in solar air conditioning and natural comfort in tropical climates.</td>
</tr>
</tbody>
</table>
### Calendar of Events

#### INNOVATION FOR A SUSTAINABLE FUTURE

**ASHRAE REGION XIII & REGION AT LARGE SUPER CHAPTERS REGIONAL CONFERENCE 2016**

**Centara Grand at Central Ladprao Bangkok, Thailand**

**September 30th - October 2nd, 2016**

<table>
<thead>
<tr>
<th>Day 0</th>
<th>Thursday, 29th September, 2016</th>
<th>Location</th>
<th>Package</th>
</tr>
</thead>
<tbody>
<tr>
<td>15:00 - 18:00</td>
<td>Arriving/ Registration Open (All)</td>
<td>Conference Hotel</td>
<td>All</td>
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</tbody>
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<table>
<thead>
<tr>
<th>Day 1</th>
<th>Friday, 30th September, 2016</th>
<th>Location</th>
<th>Package</th>
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<tbody>
<tr>
<td>07:00 - 09:00</td>
<td>Registration (All)</td>
<td>Pre-function</td>
<td>All</td>
</tr>
<tr>
<td>07:00 - 09:00</td>
<td>Sub-Region A Meeting (RAL)</td>
<td>Krungthep 3</td>
<td></td>
</tr>
<tr>
<td>07:00 - 09:00</td>
<td>Sub-Region B Meeting (RAL)</td>
<td>Krungthep 1</td>
<td></td>
</tr>
<tr>
<td>07:00 - 09:00</td>
<td>Sub-Region C Meeting (RAL)</td>
<td>Krungthep 2</td>
<td></td>
</tr>
<tr>
<td>09:00 - 12:00</td>
<td>Technical Seminar¹</td>
<td>Ballroom C</td>
<td>B1</td>
</tr>
<tr>
<td>10:10 - 10:40</td>
<td>Coffee/Tea Break</td>
<td>Pre-function</td>
<td>A1</td>
</tr>
<tr>
<td>12:00 - 13:00</td>
<td>Seminar Lunch (Package A.1 only)</td>
<td>Ballroom A</td>
<td></td>
</tr>
<tr>
<td>13:00 - 16:00</td>
<td>Technical Seminar¹</td>
<td>Ballroom C</td>
<td></td>
</tr>
<tr>
<td>14:20 - 14:40</td>
<td>Coffee/Tea Break</td>
<td>Pre-function</td>
<td></td>
</tr>
<tr>
<td>16:00 - 19:00</td>
<td>Caucus Orientation (RAL)³</td>
<td>Krungthep 2</td>
<td></td>
</tr>
<tr>
<td>16:00 - 19:00</td>
<td>Regional Planning Meeting (RAL)³</td>
<td>Krungthep 4</td>
<td></td>
</tr>
<tr>
<td>16:00 - 19:00</td>
<td>RPM #1/1 (RXIII)¹</td>
<td>Ladprao 1-2</td>
<td></td>
</tr>
<tr>
<td>19:30 - 22:30</td>
<td>Welcome Reception¹</td>
<td>Ballroom A+B</td>
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<table>
<thead>
<tr>
<th>Day 2</th>
<th>Saturday, 1st October, 2016</th>
<th>Location</th>
<th>Package</th>
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<tbody>
<tr>
<td>07:00 - 10:00</td>
<td>Caucus Session (RAL)³</td>
<td>Horvang 2-3</td>
<td></td>
</tr>
</tbody>
</table>

#### Committee Workshops (RXIII & RAL)

- Membership Promotion (MP) Centralized Training | Ladprao 1-4 | C1
- Research Promotion (RP) Centralized Training | Ballroom C | |
- Refrigeration (REF) | Krungthep 1 |
- Young Engineer in ASHRAE (YEA) | Krungthep 2 |
- Electronic Communication (ECC) & Website | Krungthep 3 |
- Presidential Award of Excellent /Technical Committee (TC) | Krungthep 4 |

| 08:00 - 10:00 | | |
| 10:00 - 10:30 | Coffee/Tea Break | Pre-function | |
| 10:30 - 12:30 | - Chapter Technology Transfer (CTT) | Krungthep 1 | |
| 12:30 - 14:00 | Presidential Luncheon⁵, Society President Speech | Ballroom A+B | D |
| 14:00 - 15:30 | Business Session No.3 (RAL)² | Ballroom C | B0 |
| 14:00 - 15:30 | Business Session No.1 (RXIII)² | Krungthep 2 | |
| 15:30 - 16:00 | Coffee/Tea Break | Pre-function | |
| 16:00 - 18:00 | Business Session No.3 (RAL)² | Ballroom C | |
| 16:00 - 17:00 | Business Session No.1 (RXIII)² (Cont.) | Krungthep 2 | |
| 17:00 - 18:00 | Caucus Orientation (RXIII)⁵ | Krungthep 3 | |
| 18:00 - 19:00 | BoD Forum (Q&A) | Ballroom A+B | |
| 19:00 - 22:00 | Banquet Dinner⁵ | Ballroom A+B+C | |

<table>
<thead>
<tr>
<th>Day 3</th>
<th>Sunday, 2nd October, 2016</th>
<th>Location</th>
<th>Package</th>
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</thead>
<tbody>
<tr>
<td>07:00 - 10:00</td>
<td>Caucus Executive Session (RAL)³</td>
<td>Krungthep 2</td>
<td></td>
</tr>
<tr>
<td>07:30 - 09:00</td>
<td>Caucus Executive Session (RXIII)³</td>
<td>Ladprao 1-2</td>
<td></td>
</tr>
<tr>
<td>09:00 - 12:00</td>
<td>Business Session No. 2 (RXIII)²</td>
<td>Krungthep 4</td>
<td></td>
</tr>
<tr>
<td>10:00 - 10:30</td>
<td>Coffee/Tea Break</td>
<td>Pre-function &amp; Ballroom C</td>
<td></td>
</tr>
<tr>
<td>10:00 - 12:00</td>
<td>Business Session No. 4 (RAL)²</td>
<td>Ballroom C</td>
<td></td>
</tr>
<tr>
<td>12:00 - 14:00</td>
<td>Host Chapter &amp; Award Luncheon²</td>
<td>Ballroom A+B</td>
<td></td>
</tr>
<tr>
<td>14:00 - 16:00</td>
<td>RPM #1/2 (RXIII)³</td>
<td>Krungthep 4</td>
<td></td>
</tr>
<tr>
<td>14:00 - 17:00</td>
<td>Coffee/Tea Break (In the meeting room)</td>
<td>Krungthep 4 &amp; Ballroom C</td>
<td></td>
</tr>
<tr>
<td>17:00 - 18:00</td>
<td>CRC2016 Combined (RXIII+RAL)⁶ Review Meeting</td>
<td>Krungthep 4</td>
<td></td>
</tr>
</tbody>
</table>

#### Remarks

- All event period - Registration / Storage (Hospitality Room)
- Open to all registered members and participants
- Attended by Delegates, Alternates and Nominating Committee members & alternate (for Region as Indicated)
- Performance by Students to be presented by each Chapter
- Only RXIII APCBE Steering Committee
- Attended by Society Officers, Delegates, Alternates, Chapter & Regional Officers and all registered members /for All & Region as indicated + Society Staff
- Attended by Society Officers, Regional Officers (RXIII & RAL) and Host Committee Only + Society Staff
- By Society Officers, Delegates, Alternates, Chapter & Regional Officers and all registered members /for All & Region as indicated + Society Staff
- By Society Officers, Delegates, Alternates and Nominating Committee members & alternate (for Region as Indicated)
- By Society Officers, Regional Officers (RXIII & RAL) and Host Committee Only + Society Staff
- By Performance by Students to be presented by each Chapter

### Event Schedule

- **Day 0:** September 30th
  - 15:00 - 18:00: Arriving/ Registration Open (All)
- **Day 1:** September 30th
  - 07:00 - 09:00: Registration (All)
  - 07:00 - 09:00: Sub-Region A Meeting (RAL)
  - 07:00 - 09:00: Sub-Region B Meeting (RAL)
  - 07:00 - 09:00: Sub-Region C Meeting (RAL)
  - 09:00 - 12:00: Technical Seminar¹
  - 10:10 - 10:40: Coffee/Tea Break
  - 12:00 - 13:00: Seminar Lunch (Package A.1 only)
  - 13:00 - 16:00: Technical Seminar¹
  - 14:20 - 14:40: Coffee/Tea Break
  - 16:00 - 19:00: Caucus Orientation (RAL)³
  - 16:00 - 19:00: Regional Planning Meeting (RAL)³
  - 16:00 - 19:00: RPM #1/1 (RXIII)¹
  - 19:30 - 22:30: Welcome Reception¹
- **Day 2:** October 1st
  - 07:00 - 10:00: Caucus Session (RAL)³
  - 07:00 - 12:30: Committee Workshops (RXIII & RAL)
  - 08:00 - 10:00: Committee Workshops (RXIII & RAL)
  - 10:00 - 10:30: Coffee/Tea Break
  - 10:30 - 12:30: Committee Workshops (RXIII & RAL)
  - 12:30 - 14:00: Presidential Luncheon⁵, Society President Speech
  - 14:00 - 15:30: Business Session No.3 (RAL)²
  - 14:00 - 15:30: Business Session No.1 (RXIII)²
  - 15:30 - 16:00: Coffee/Tea Break
  - 16:00 - 18:00: Business Session No.3 (RAL)²
  - 16:00 - 17:00: Business Session No.1 (RXIII)² (Cont.)
  - 17:00 - 18:00: Caucus Orientation (RXIII)⁵
  - 18:00 - 19:00: BoD Forum (Q&A)
  - 19:00 - 22:00: Banquet Dinner⁵
- **Day 3:** October 2nd
  - 07:00 - 10:00: Caucus Executive Session (RAL)³
  - 07:30 - 09:00: Caucus Executive Session (RXIII)³
  - 09:00 - 12:00: Business Session No. 2 (RXIII)²
  - 10:00 - 10:30: Coffee/Tea Break
  - 10:00 - 12:00: Business Session No. 4 (RAL)²
  - 12:00 - 14:00: Host Chapter & Award Luncheon²
  - 14:00 - 16:00: RPM #1/2 (RXIII)³
  - 14:00 - 17:00: Coffee/Tea Break (In the meeting room)
  - 17:00 - 18:00: CRC2016 Combined (RXIII+RAL)⁶ Review Meeting

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1) Open to all registered members and participants
2) Attended by Society Officers, Delegates, Alternates, Chapter & Regional Officers and all registered members /for All & Region as indicated + Society Staff
3) Attended by Delegates, Alternates and Nominating Committee members & alternate (for Region as Indicated)
4) Attended by Society Officers, Regional Officers (RXIII & RAL) and Host Committee Only + Society Staff
5) Performance by Students to be presented by each Chapter
6) Only RXIII APCBE Steering Committee
### Calendar of Events

#### INNOVATION FOR A SUSTAINABLE FUTURE
#### ASHRAE REGION XIII
#### 19th CHAPTERS REGIONAL CONFERENCE
#### BOARD OF DIRECTOR & EXECUTIVE COMMITTEE MEETING
#### Centara Grand at Central Ladprao Bangkok, Thailand
#### October 3rd - 5th, 2016

<table>
<thead>
<tr>
<th>Day 4</th>
<th>Monday, 3rd October 2016</th>
<th>Location</th>
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<tbody>
<tr>
<td>08:00 - 08:30</td>
<td>Registration</td>
<td>Ballroom C</td>
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<tr>
<td>08:30 - 12:30</td>
<td>Board Meeting</td>
<td>Ballroom C</td>
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<tr>
<td>10:00 - 10:30</td>
<td>Coffee/Tea Break</td>
<td>Pre-function</td>
</tr>
<tr>
<td>12:30 - 14:00</td>
<td>Board Meeting Lunch</td>
<td>Pre-function</td>
</tr>
<tr>
<td>14:00 - 17:30</td>
<td>Board Meeting</td>
<td>Ballroom C</td>
</tr>
<tr>
<td>15:30 - 16:00</td>
<td>Coffee/Tea Break</td>
<td>Pre-function</td>
</tr>
<tr>
<td>19:00 - 22:00</td>
<td>Board Meeting Dinner</td>
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<thead>
<tr>
<th>Day 5</th>
<th>Tuesday, 4th October 2016</th>
<th>Location</th>
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<tbody>
<tr>
<td>08:30 - 12:00</td>
<td>Board Meeting</td>
<td>Ballroom C</td>
</tr>
<tr>
<td>10:00 - 10:30</td>
<td>Coffee/Tea Break</td>
<td>Pre-function</td>
</tr>
<tr>
<td>14:00 - 17:30</td>
<td>Executive Committee Meeting</td>
<td>Horvang-1</td>
</tr>
<tr>
<td>15:30 - 16:00</td>
<td>Coffee/Tea Break</td>
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<table>
<thead>
<tr>
<th>Day 6</th>
<th>Wednesday, 5th October 2016</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>08:30 - 12:00</td>
<td>Executive Committee Meeting</td>
<td>Horvang-1</td>
</tr>
<tr>
<td>10:00 - 10:30</td>
<td>Coffee/Tea Break</td>
<td></td>
</tr>
</tbody>
</table>

#### Remark: BoD Meeting is opened to anybody except Executive Session

#### Conference Hotel:
#### Centara Grand at Central Plaza Ladprao
1695 Phaholyothin Road, Chatuchak, Bangkok 10900, Thailand
Tel: +66 2541 1234, Fax: +66 2541 1087
Email: cglb@chr.co.th
www.centarahotelsresorts.com/centaragrand/cglb/

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