

# Innovation for a Sustainable Future



# ASHRAE

Chapters Regional Conference

In Bangkok, Thailand  
Centara Grand at Central Ladprao  
CRC - Sep 30<sup>th</sup> - Oct 2<sup>nd</sup> 2016

# Super-CRC-2016

Conjunction with the BoD & ExCom Meeting  
Oct 3<sup>rd</sup> - 5<sup>th</sup>, 2016

## Region XIII 19<sup>th</sup> CRC

### BoD & ExCom

### 1<sup>st</sup> Oversea Meeting

## Region-At-Large





### Morning Session

**Keynote Speaker 1 : Highly Recognized Specialist from Ministry of Science and Technology (To be named after confirmation) (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**

<b>Topic</b>	<b><i>The Future of Our Industry and ASHRAE's Role (9:30-10:10) (Keynote)</i></b>	
<b>Description</b>	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 responses 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.	
<b>Speaker</b>	<b>Timothy G. Wentz (Tim Wentz) (Keynote Speaker)</b>	
<b>Title</b>	<i>ASHRAE Society President (2016-17)</i>	
<b>Biography</b>	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&C) and ASHRAE's new certification as a High performance Building Design Professional (HBDP).	
<b>Topic</b>	<b><i>International Standards for The Indoor Environment - Where Are We and Do They Apply Worldwide? (10:40-11:20)</i></b>	
<b>Description</b>	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?	
<b>Speaker</b>	<b>Professor Bjarne Olesen, Ph. D.</b>	
<b>Title</b>	<i>ASHRAE Society President - Elect (2016-17)</i>	
<b>Biography</b>	Professor Bjarne Olesen, Ph. D. 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 in peer reviewed journals.	
<b>Topic</b>	<b><i>The Coming Age of a Smart Grid and Smart Buildings (11:20-12:00)</i></b>	
<b>Description</b>	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.	
<b>Speaker</b>	<b>Thomas M. Lawrence, Ph.D., P.E.</b>	
<b>Title</b>	<i>ASHRAE Director-at-Large (2016-17)</i>	
<b>Biography</b>	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).	

### Afternoon Session

<b>Topic</b>	<b><i>Intelligent Buildings – Technology is changing what is possible in the built environment (13:00-13:40)</i></b>	
<b>Description</b>	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.	
<b>Speaker</b>	<b>Jim Vallort (James K.Vallort)</b>	
<b>Title</b>	<i>ASHRAE Society Vice-President (2014-16)</i>	
<b>Biography</b>	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 2005-08 and as Region VI Director and Regional Chair in 2001-04.	
<b>Topic</b>	<b><i>Integrating Renewable Engineering Systems into Buildings (13:40-14:20)</i></b>	
<b>Description</b>	Overview of Renewable energy, methods for incorporating RE technology that used successfully in the USA to offset building electrical bill and thermal energy load into building design and operation, discuss issue related to connecting RE systems into the existing grids and offer tips for implementing successful projects.	
<b>Speaker</b>	<b>Sheila J. Hayter P.E., LEED AP</b>	
<b>Title</b>	<i>ASHRAE Treasurer (2016-17)</i>	
<b>Biography</b>	<i>Project Assessment &amp; Development Section Manager of the U.S. Department of Energy's (DOE) National Renewable Energy Laboratory (NREL)</i> As an ASHRAE Vice President, Fellow grade, DL, DOE Solar and High performance Building evaluation and judging, Green building ad Hoc steering committee. Building energy labeling chair and committee. Many ASHRAE TCs' chair.	
<b>Topic</b>	<b><i>Fundamentals of Ultraviolet Germicidal Irradiation for Air and Surface Disinfection (14:40-15.20)</i></b>	
<b>Description</b>	Germicidal radiation produced by low pressure mercury vapor lamps and other sources is seeing increasing application both for air disinfection and for control of biological growth on surface. 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	
<b>Speaker</b>	<b>Dr. William P. Bahnfleth, Ph.D., P.E., FASHRAE, FASME, FISIAQ</b>	
<b>Title</b>	<i>Professor and Director of the Indoor Environment Center in the Department of Architectural Engineering at the Pennsylvania State University.</i>	
<b>Biography</b>	Dr. William Bahnfleth 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.	
<b>Topic</b>	<b><i>Natural Comfort (15:20-16:00)</i></b>	
<b>Description</b>	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.	
<b>Speaker</b>	<b>Mr. Kecha Thirakomen</b>	
<b>Title</b>	<i>CEO of EEC Group Bangkok, Thailand</i>	
<b>Biography</b>	As an ASHRAE DL & 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.	

**INNOVATION FOR A SUSTAINABLE FUTURE**  
**ASHRAE REGION XIII & REGION AT LARGE SUPER CHAPTERS REGIONAL CONFERENCE 2016**  
**Centara Grand at Central Ladprao Bangkok, Thailand**  
**September 30<sup>th</sup> - October 2<sup>nd</sup>, 2016**

Day 0	Thursday, 29 <sup>th</sup> September, 2016	Location	Package
15:00 - 18:00	Arriving/ Registration Open (All)	Conference Hotel	All
Day 1	Friday, 30 <sup>th</sup> September, 2016	Location	
07:00 - 09:00	Registration (All)	Pre-function	All
07:00 - 09:00	Sub-Region A Meeting <sup>2</sup>	Krungthep 3	B1
	Sub-Region B Meeting <sup>2</sup>	Krungthep 1	
	Sub-Region C Meeting <sup>2</sup>	Krungthep 2	
09:00 - 12:00	Technical Seminar <sup>1</sup>	Ballroom C	A1
10:10 - 10:40	Coffee/Tea Break	Pre-function	
12:00 - 13:00	Technical Seminar Lunch	Ballroom A	D1
13:00 - 16:00	Technical Seminar <sup>1</sup>	Ballroom C	A0
14:20 - 14:40	Coffee/Tea Break	Pre-function	H
16:00 - 19:00	Caucus Orientation (RAL) <sup>3</sup>	Krungthep 2	
16:00 - 19:00	Regional Planning Meeting <sup>2</sup>	Krungthep 4	C1
16:00 - 19:00	Regional Planning Meeting #1/1 (R-XIII) <sup>3</sup>	Ladprao 1-2	
19:30 - 22:30	Welcome Reception <sup>1</sup>	Ballroom A+B	B0
Day 2	Saturday, 1 <sup>st</sup> October, 2016	Location	
07:00 - 10:00	Caucus Session (RAL) <sup>3</sup>	Horvang 2-3	C0
07:00 - 12:30	<b>Committee Workshops (R-XIII &amp; RAL)</b>		
	- Membership Promotion (MP) Centralized Training	Ladprao 1-4	
	- Research Promotion (RP) Centralized Training	Ballroom C	
08:00 - 10:00	- Refrigeration (REF)	Krungthep 1	C1
	- Young Engineer in ASHRAE (YEA)	Krungthep 2	
	- Electronic Communication (ECC) & Website	Krungthep 3	
	- Presidential Award of Excellent (PAOE) / Technical Committee (TC)	Krungthep 4	
	- Grassroots Government Advocacy (GGAC)	Krungthep 4	
10:00 - 10:30	Coffee/Tea Break	Pre-function	D2
10:30 - 12:30	- Chapter Technology Transfer (CTT)	Krungthep 1	
	- Student Activity (SA)	Krungthep 2	
	- Historical	Krungthep 3	
	- Grassroots Government Advocacy (GGAC)	Krungthep 4	
12:30 - 14:00	Presidential Luncheon <sup>2</sup> , Society President Speech	Ballroom A+B	B1
14:00 - 15:30	Business Session No.3 <sup>2</sup>	Ballroom C	
14:00 - 15:30	Business Session No.1 (R-XIII) <sup>2</sup>	Krungthep 2	B0
15:30 - 16:00	Coffee/Tea Break	Pre-function	
16:00 - 18:00	Business Session No.3 <sup>2</sup>	Ballroom C	F
16:00 - 17:00	Business Session No.1 (R-XIII) <sup>2</sup> (Continued)	Krungthep 2	
17:00 - 18:00	Caucus Orientation (R-XIII) <sup>3</sup>	Krungthep 3	E
	APCBE Steering Committee Meeting (R-XIII) <sup>6</sup>	Krungthep 4	
18:00 - 19:00	BoD Forum (Q&A)	Ballroom A+B	F
19:00 - 22:00	Banquet Dinner <sup>5</sup>	Ballroom A+B+C	
Day 3	Sunday, 2 <sup>nd</sup> October, 2016	Location	
07:00 - 10:00	Caucus Executive Session (RAL) <sup>3</sup>	Krungthep 2	D3
07:30 - 09:00	Caucus Executive Session (R-XIII) <sup>3</sup>	Ladprao 1-2	
09:00 - 12:00	Business Session No. 2 (R-XIII) <sup>2</sup>	Krungthep 4	C0
10:00 - 10:30	Coffee/Tea Break	Pre-function & Ballroom C	
10:00 - 12:00	Business Session No.4 <sup>2</sup>	Ballroom C	B1
12:00 - 14:00	Host Chapter & Award Luncheon <sup>2</sup>	Ballroom A+B	
14:00 - 16:00	Regional Planning Meeting #1/2 (R-XIII) <sup>3</sup>	Krungthep 4	C1
15:30 - 16:00	Coffee/Tea Break (In the meeting room)	Krungthep 4 & Ballroom C	
14:00 - 17:00	Business Session No.4 <sup>2</sup>	Ballroom C	C0
17:00 - 18:00	CRC2016 Combined (RXIII+RAL) <sup>4</sup> Review Meeting	Krungthep 4	
<b>Remarks</b>	<b>All event period - Registration / Storage (Hospitality Room)</b>		

- 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 chapters
- 6) Only RXIII APCBE Steering Committee

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

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

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

**Conference Hotel:**

**Centara Grand at Central Plaza Ladprao**

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