

The Grapevine

November 2017 Redwood Empire Section Newsletter



REASHRAE Winter Meeting December 14th 2017

Our **winter meeting is coming up Thursday December 14th** at the Napa Elks Lodge. Distinguished Lecturer and ASHRAE Fellow, Peter Simmonds, will be joining us to discuss Megatall building systems.

WILDFIRE RECOVERY FUNDS are available for REASHRAE members affected by the fires. See Page 5.

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NEW REASHRAE MAILING ADDRESS:
P.O. Box 5665 Santa Rosa, CA. 95402

The New ASHRAE Design Guide for Tall, Supertall and Megatall Building Systems

December 14th, 2017
Winter REASHRAE Meeting
Napa Elks Lodge
5:30-8:00pm

Tall commercial buildings present a series of design problems that differ from those that are found in other projects in the built environment.

There are three classifications of tall buildings:

- Tall buildings (heights >100m)
- Supertall buildings (heights >300m)
- Megatall buildings (heights >600m)

This lecture will be of interest to owners, architects, structural engineers, mechanical engineers, electrical engineers and other specialized engineers and consultants. The design guide not only focuses on the efforts of designers of the heating, ventilating and air-conditioning (HVAC) systems, but also addresses the importance of the design team and their collective efforts and concerns that are the critical elements in determining the ultimate solutions

to project needs of a tall building.

This guide addresses design issues for tall commercial buildings which are very often mixed use, consisting sometimes of low level retail, office floors, residential floors and hotel floors but the matters discussed and the recommendations and comments that are developed, with various modifications, can be applied to other project types within the built environment. As buildings get taller there are different climatic effects which vary over the height of a building. The façade becomes important, not only due to the building size but also how it responds to ambient conditions and how it contributes to the buildings heating and cooling loads.

For tickets please RSVP to Kent Kawakami via Diana Kalogerou, email: dkalogerou@costaengineers.com



PETER SIMMONDS
Ph.D. FASHRAE, FIBPSA,
FFTI

Managing Director/Principal
 Building and Systems Analytics LLC
 Marina del Rey, California
 and Hong Kong

Peter Simmonds has Bachelor of Science degrees in Mechanical Engineering Research and Development from Reading Technical College, a Master's degree from HTS, Den Bosch, The Netherlands and a Ph.D. from T.U. Delft. He has been a member of ASHRAE since 1989.

Dr. Simmonds is a recognized authority in the field of Radiant heating and cooling systems, as well as Thermal Comfort. Publications of his work led to the development of radiant systems in the USA and are included in the ASHRAE Handbooks. He has been involved in the design and development of Passive and Active Beams since 1983 and has designed many systems worldwide. Peter is one of the co-authors of the ASHRAE/REHVA Passive and Active Beam Design Guide. He has been involved in the design and operation of tall, supertall, and megatall buildings around the world for more than 30 years and has authored the new ASHRAE Design Guide for Tall, Mega Tall and Super Tall Building Systems. He has received the Carter Bronze Medal from the Chartered Institution of Building Services Engineers in 1993. He has authored or co-authored more than 60 technical papers, articles and books. He is a member of several ASHRAE Technical Committees and serves on the Standards committee as well as the College of Fellows. Peter teaches Graduate and Post Graduate Architectural students at the University of Southern California and is an ASHRAE Distinguished Lecturer.



Redwood ASHRAE President's Message



Redwood Section President 2017-18
Kent Kawakami, P.E.

Hello Colleagues, Friends and Family,

ASHRAE promotes the art and science of heating, refrigerating and air conditioning. To give you an update, we recently had some successful events. Last September we enjoyed a joint CSI/REASHRAE meeting where Jim Szelenyi from Trane spoke about DDC controls and gave some insight to proper construction documentation. In addition, we had Ted Tiffany from Guttman & Blaevoet speak about Zero Net Energy (ZNE). I would like to thank them for their presentation and insight to controls and new proposed code changes.

The end of October we had a successful annual golf tournament at Bennett Valley Golf Course. The golf tournament produced a first time, hole-in-one by David Mahr from Peterson Mechanical. Congratulations David on your hole-in-one and thank you for the drinks.

In light of the North Bay wildfires, we will have a higher consideration to qualified scholarship applicants effected by the fires. There are many who are directly effected by this devastation, either themselves personally, family members and/or friends. We want our community to know our thoughts and hearts go out to the victims of the fires.

I want to thank all the golf players who provided a record participation. Also, I want to thank companies who provided a record number of hole sponsorships, donations, all those who provided generous raffle gifts and those who helped behind the scene to make it work. It was a huge success and we could not do it without your help. Thank you for giving back to our local

community.

We are able to fulfill our scholarship fund obligations to help the next generation of engineers and ASHRAE research to improve the latest technology and innovation within our industry.

Lastly, I would like to provide a quote that I feel is relevant to the engineering field. It comes from a book called "Wooden" (A lifetime of observation and reflections on and off the court). The late, Hall of Fame UCLA basketball coach, John Wooden would say:

"Always be progressing. You must never stand still. You're either moving upward a little bit or you're going the other way. You can't expect to go upward too quickly, but you can sure go down very quickly. The slide down happens in a hurry. Progress comes slowly but steadily if you are patient and prepare diligently. Every member of every UCLA basketball team who ever played and practiced with us will tell you that one of my most common expressions was 'move, move, move!' It meant it both physically and mentally."

Our industry is constantly changing and ASHRAE helps us keep progressing by constantly learning something new and innovative.

Be sure to attend the next meeting on December 14th and learn something new and innovative. Distinguished lecturer from ASHRAE, Peter Simmonds will speak on Megatall building structure system design. Hope to see you there; have a Happy Thanksgiving and Merry Christmas!

Regards,

Kent Kawakami, P.E. Redwood Empire Section
ASHRAE, President

ASHRAE

NOT A NATIONAL ASHRAE MEMBER? JOIN US!

By Mike Scofield, Membership Chair for Redwood Empire ASHRAE Section

Your membership in ASHRAE puts you in touch with over 53,000 members in over 170 Chapters worldwide. This group includes Consulting Engineers, Mechanical Contractors, Building Owners, Manufacturing Companies, Educational Institutions, Research Organizations, Architects, Government officials, and all concerned with HVAC&R for the Built Environment.

Join online at <http://www.ashrae.org/join>



LEVELS OF MEMBERSHIP ARE AS FOLLOWS:

- **ASHRAE Member (\$ 206.00)** is available for anyone with 12 years or more ASHRAE approved experience in the HVAC&R Industry.
- **Associate Member (\$ 206.00)** is available for anyone with less than 12 years of experience in the HVAC&R Industry.
- **Affiliate Member (\$ 52.00 first year, \$ 78.00 second year and \$ 103.00 third year)** is available for first time members under the age of 30 years. This is an excellent way for the young Design Professional to become involved with ASHRAE at a lower cost. This grade of membership does not include the ASHRAE Handbook publication.
Questions: Contact membership@ashrae.org

Your membership includes the following Publications and Resources:

- ASHRAE Handbook current the year you join and each year you remain a member.
- Monthly ASHRAE Journal magazine.
- e-Industry and e-Society electronic Newsletters.
- Discounts on attending ASHRAE annual EXPO and Technical Meetings.
- Discounts on over 300 of the HVAC&R Industry Technical Publications.
- Discounted registration for Continuing Education Courses through the ASHRAE Learning Institute.

Join the Redwood Empire ASHRAE Section

I'll Join RE-ASHRAE for 2017-2018

Send your check of \$25 to P.O. Box 5665, Santa Rosa, CA. 95402 or bring your check to the next REASHRAE meeting. Make checks payable to Redwood Empire ASHRAE. Thanks!

Name: _____

Company: _____

Company Address: _____

City, State, Zip: _____

Email: _____

Work Phone: _____ Work Fax: _____

Home Phone: _____

Please use the following address for ASHRAE correspondence (if different than above):

Address: _____

City, Zip: _____

Currently I am a member of:

ASHRAE National Society Member

ASHRAE Golden Gate Chapter

ASHRAE _____ Chapter

WILDFIRE RECOVERY FUNDS

ASHRAE Region X has collected donations for wildfire recovery. If there are any ASHRAE members (or businesses) who were directly impacted by the October wildfires in the North Bay, please contact Annie Foster at annie.foster-courtney@wsp.com before the end of November.

Fund disbursement priority will go to ASHRAE Society members who can demonstrate that they were impacted.

Meeting Re-Cap REASHRAE September 7th

On September 7th, we heard from Jim Szelenyi on digital control challenges and how to avoid them.



Golf Re-Cap

REASHRAE October 27th

The golf tournament was a smashing success. We had lovely weather and all had a great time. The Peterson foursome won the tournament, aided by David Mahr's hole-in-one.



Redwood Empire ASHRAE 2017-2018 Scholarship

Deadline for Submission: Postmarked by February 12, 2018

The Redwood Empire Section of the American Society of Heating, Refrigeration and Air Conditioning Engineers will be awarding a \$2000 scholarship to a graduating high school senior from Napa, Sonoma or Marin county.

The goal of the scholarships is to financially assist an outstanding student who chooses to pursue an education in an engineering

discipline or an allied science (e.g. computer science, material science, applied physics or atmospheric science) related to the mission of ASHRAE.

The student awarded the scholarship will be expected to attend an awards dinner in March 2018.

See website for application instructions and forms www.reashrae.org

The Grapevine

Is published quarterly by the Redwood Empire Section of the Golden Gate Chapter of ASHRAE. We encourage submissions from members and non-members alike that might be of interest to our readers. Items for publication should be submitted directly to the Editor and President via email.

If you have questions or comments about the Grapevine, please contact the following:

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The Grapevine

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Two Open Governor Positions: Come join us!

The Usual Suspects

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Adrian Gioenco

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Your Ad Could Be Here!

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Grapevine Editor, William H. Martin III
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Events Calendar

Dec. 14, 2017 – Dinner Meeting with Peter Simmonds, Ph.D. "Designing building systems for Mega Hi-Rise Buildings"

January 20-24, 2018 – 2018 ASHRAE Winter Conference & AHR EXPO, Chicago, IL.

March 15, 2018 – Spring Meeting

March 18-21 2018 – IIAR Natural Refrigeration Conference & Expo

Send us your ASHRAE-related events!

Welcome
Matt
Justus!



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