



Newsletter

January 14th, 2020 meeting at
University of Memphis

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This meeting is held in the
Tennessee Ballroom

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Presidents Corner

Chapter Members,

Happy New Year! I hope everyone had a wonderful holiday season.

I know the beginning of the New Year can be pretty busy, but don't forget our chapter meeting this month! Our next chapter meeting will be on January 14th in the Tennessee Ballroom at the Holiday Inn at the University of Memphis. It would be great to see everyone, since I haven't seen most of you since last year..

We have a lot of events coming up, so keep checking the website and newsletter for those. Also, if you are planning on attending the ASHRAE Winter Conference / AHR expo, please let a chapter officer know you will be attending.

Thank you,

Mariel Meegan
President
ASHRAE Memphis Chapter.



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The New Legionella Standard: ANSI/ASHRAE 188-2015 Legionellosis: Risk Management for Building Water Systems

ASHRAE has been actively involved in providing information on Legionella since 1979 in response to the first Legionnaire's disease outbreak in 1976 and the subsequent discovery by the CDC of the causative bacteria – Legionella. While Legionnaire's disease has been known for many years, recent outbreaks have increased awareness of the disease, its causes and prevention strategies. The CDC estimates 8-18 thousand cases per year, of which more than 10% are fatal.

ANSI/ASHRAE 188 first published in June 2015 establishes minimum Legionellosis risk management requirements for building water systems. It applies to human-occupied commercial, institutional, multi-unit residential, and industrial buildings, excluding single-family residential buildings. It is intended for use by owners & managers of human-occupied buildings, excluding single-family residential buildings and also for those involved in design, construction, installation, commissioning, operation, maintenance & service of centralized building water systems and components.

This session provides an overview of Legionella bacteria, its source, how it is amplified, how it is transmitted and who is susceptible. There will be a detailed look at the standard, the background on its development and what is required for its application and adoption. Specific topics include the framework for legionella bacteria control measures, health care facility requirements, requirements for adopting a Water Management Program for specific devices such as cooling towers, ornamental fountains, spas, etc., elements of a Water Management Program, and designer requirements.

Presented by Patricia Graef, P.E.

Patricia Graef, P.E., Fellow ASHRAE, LEED GA, retired from Munters Corp., Fort Myers, Fla. Patricia Graef has spent the more than 40 years focusing on engineering and developing products that control temperature and moisture in building air as well as the water associated with the processes. Graef received her bachelor of science in mechanical engineering from the University of Florida. In the time Graef has worked for Munters, she has served as a Scientist in the cooling tower division, was the Director of Core Technology for Humidification and Engineering and Development Manager for the HumiCool division. Today she is senior engineer for the Air Treatment division and has more than a dozen international patents in her name.

Graef is a 45-year member of ASHRAE. In ASHRAE she has been a voting member of Guideline 12 Managing the Risk of Legionellosis Associated with Building Water Systems since 1995 and Standard 188 Legionellosis: Risk Management for Building Water Systems since 2004. She has contributed to four ASHRAE handbook chapters including Water Treatment, Humidification, Evaporative Cooling, and Gas Turbine Inlet Cooling. Graef has shared with the HVAC industry her knowledge by contributing to ASHRAE Handbooks, standards writing, monitoring research projects, and program presentations. Graef is a recipient of ASHRAE's Distinguished Service Award, Exceptional Service Award and the Award for Distinguished Public Service.

Graef has made numerous technical presentations at ASHRAE, ASME, Power Gen, and the Electric Utility Chemistry Workshop. Her presentations include design, commissioning and maintenance of heat and mass transfer equipment including the chemistry of the service water that is utilized by the equipment. She developed water quality and water usage programs to predict water usage, scaling rates and water blending capabilities. This is used to predict water usage and water blow-down of sprayed tube heat exchangers, evaporative air coolers and humidifiers. Graef developed a program to predict the annual benefit of adding evaporative cooling to the inlet of a combustion turbine generator. The program uses ASHRAE Bin weather data. It checks every hour of the year and calculates the power out-put of the combustion turbine with and without evaporative precooling.

Graef previously served as Society Vice President. Her other recent service includes five years in leadership positions for the ASHRAE Rules Committee, chair of Technology Council, member of the Advanced Energy Design Guide Steering Committee, member of Finance Committee, Standards Committee, Technical Committees (TC) 3.6, Water Treatment, 5.7 Evaporative Cooling and 5.11 Humidification. She also serves on the Board of Governors of her local ASHRAE Chapter.

Graef started her career in new product development over 40 years ago as an application engineer for Munters Corporation. She helped transform the inventions of Carl Munters from his Swedish laboratory to the US and other global markets. These products include cooling towers, mist elimination, evaporative cooling, humidification and dehumidification. Graef further contributed to these innovations with her own patents. Graef's comprehensive design and operational portfolio covers manufacturing, testing and application of heat and mass transfer media, application of humidity control in commercial and industrial spaces, adiabatic cooling for agriculture, residential, commercial and industrial spaces. Significant projects in which Graef was involved include Mammoth Pacific Geothermal Facility, Mammoth Lakes, CA, Southern Company, Savannah Electric-McIntosh Plant, Rinken, GA, Union Carbide Company, Taft, Louisiana, General Motors Validation Center, Pontiac, Michigan, Ford Assembly Plant, Norfolk Virginia, University of Georgia, Davis Farm, Athens, Georgia.



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2019 - 2020 ASHRAE Memphis Calender:

January 14th Meeting: Legionellosis: Risk Management for Building Water Systems
Meeting & Presentation by Pat Graef (DL) in Tennessee Ballroom

Feburary 11th Meeting: Impact of the new DOE Regulations on Pump Selection
Meeting & Presentation by Taco Rep in Tennessee Ballroom

March 10th Meeting: Gas Regulators and Natural Gas Design
Meeting & Presentation by TBD in Tennessee Ballroom

April 14th Meeting: Health/Humidity/Hospitals/reduced healthcare acquired infections
Meeting & Presentation by Stephanie Taylor in Tennessee Ballroom

May 12th Meeting: Ethics
Meeting & Presentation by TBD in Tennessee Ballroom



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The 2020 ASHRAE Winter Conference technical program is comprised of eight tracks, selected to represent areas of focus common among ASHRAE membership. The track focus areas include HVAC&R fundamentals and applications, systems and equipment, refrigeration and refrigerants, and other specific topics including novel approaches to HVAC&R systems and buildings for contemporary concerns and analytical techniques to economically automate buildings.

"The 2020 ASHRAE Winter Conference will feature a strong technical program including presentations and discussions on best design practices and standards, incorporation of innovative technologies, and cutting edge approaches applicable to a wide range of buildings-related engineers, architects, and professionals," said Conference Chair, Melanie Derby.

<https://www.ashrae.org/conferences/2020-winter-conference-orlando>



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2020 ASHRAE Chapter Leadership Academy

ASHRAE Headquarters

Atlanta, GA

March 6 – 7, 2020

Chapter Leadership Academy is a 1.5-day crash course designed for active Chapter members to simplify the learning curve of all things ASHRAE. Attendees will gain a better understanding of how ASHRAE Society functions and obtain useful and practical knowledge essential for honing

ASHRAE leadership skills. The program also will include sharing tips and best practices that attendees can confidently take back to their Chapters for implementation. Attendees help shape the discussion, too! A significant part of the program will be based on hot topics and ASHRAE-related challenges that attendees have identified they would like to see addressed.

Topics covered include:

Creating your ASHRAE elevator speech

Navigating the ASHRAE organizational structure

Understanding the tools and resources available to help Chapters and their members succeed

Managing effective meetings so that Board of Governor meetings and Chapter meetings can run as smoothly as possible

Delegating to and motivating volunteers toward the ASHRAE mission

There is no charge for this program, but registration is required. Interested ASHRAE members must receive approval from their Director and Regional Chair (DRC). Society will reimburse room + tax costs for up to two nights at the host hotel and will cover meals during the event. Airfare and other expenses will be the responsibility of the attendee, the Chapter, and/or the Region.

<https://fs12.formsite.com/ashrae/mv1chxplex/index.html>