

# The Gee Chee

The Charleston Chapter 113 of ASHRAE Newsletter

## MARCH 2022

[www.charlestonashraechapter.wildapricot.org/](http://www.charlestonashraechapter.wildapricot.org/)



**Speaker:** Mick Schwedler, PE, FASHRAE, LEED® AP<sup>BD+C</sup>

**Topic:** Building Decarbonization

**Date:** Monday, March 07<sup>th</sup>

**Time:** 11:45AM - 1:00PM (EST)

**Cost:** Company Registration - \$30.00

Nonmember (Lunch & Bar) - \$30.00

Nonmember (Lunch Only) - \$25.00

**Location:** Omar Shrine Temple

176 Patriots Point Rd.

Mt. Pleasant, SC 29464

### Program:

“Decarbonization” has become a hot topic. But what is it, how do we estimate emissions reduction and how can HVAC systems be designed to reduce emissions? This presentation focuses on reducing emissions due to design choices, building operation and from the electric grid providing building power. Subjects include decarbonization definition, goals, example calculations of emissions, key HVAC components and effects, and a few system solutions. The presentation does not cover subjects such as embodied carbon or carbon emitted during construction.

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## Speaker Bio:



Mick Schwedler, PE, FASHRAE, LEED® AP<sup>BD+C</sup>

Staff Applications Engineer Trane

Mick has been active in the development and support of HVAC systems for Trane since 1982. As an applications engineer his areas of expertise include system optimization (in which he holds patents) as well as chilled water and water source heat pump system design. His primary activities include assisting designers in proper application of products and systems in buildings, and writing system application manuals and newsletters. In addition, he has presented technical information to tens of thousands of engineers through Trane's Engineers Newsletter Live series, and ASHRAE webcasts. Mick has given technical seminars throughout North America, as well as in the Far East and South America, and published articles within the industry. Prior to his work with Trane, Mick received his MSME from the University of Wisconsin Solar Energy Laboratory and BSME from Northwestern University.

Mick serves as 2021-2022 ASHRAE President. He is an ASHRAE Fellow, recipient of ASHRAE's Exceptional Service, Distinguished Service, and Standards Achievement Awards, and was Chair of SSPC 90.1-2010. Mick also served as Chair of the Advanced Energy Design Guide Steering Committee and was on project committees for the 50% Hospital and Office Buildings AEDGs.

Mick chaired the USGBC LEED Technical Committee, served on the LEED Steering Committee and is a past member of several USGBC technical and education groups. He also authored portions of the original ASHRAE Green Building Guide, and served on technical groups for the New Buildings Institute.

Personal

Mick and Jen have three children -- Ben (married to Mandi, grandson Ian), Caroline (married to Aaron, grandson James) and Karl -- who are all blessings to them. Jen and Mick are quite active at First Evangelical Lutheran Church where Jen is an organist. Mick loves to sing in barbershop quartets, and golfs when work and volunteer activities allow. Raised 30 miles from Green Bay, WI in the 1960's, Mick is an avid (or is that rabid?) Packer fan.

## Previous Speaker:



Tony Ribaldo

Commercial Regional Manager, Mitsubishi Electric

Topic: VRF Technologies - Applications, Opportunities, and Benefits

### Personal

Tony has a Bachelor of Science degree in Mechanical Engineering from Virginia Tech, and has been with Mitsubishi Electric since 2014. As the Commercial Regional Manager for the Southern Atlantic states, Tony is responsible for educating the market about VRF and ductless technologies, and also acts as a local technical resource to the engineering, contracting and architectural communities. Prior to joining Mitsubishi Electric, Tony has held a variety of positions with other HVAC manufacturers, all with a focus on applied equipment and systems.

## Chapter Officers

Chapter Vice President  
Kenan Geren  
kenan.geren@tranetechnologies.com

Chapter President  
Mike Liddle  
mike@echoengr.com

Chapter Treasurer  
Randy Jones  
rjones@chapmancompany.com

Chapter Secretary  
Brian Ross  
bross@hahnmason.com

## Chapter Board of Governors

Philip Runyon  
prunyon@chapmancompany.com

Pete Conroy  
petec@jmpco.com

Bret Turkall  
bturkall@outlook.com

Tim Niles  
tniles@cems-ae.com



ASHRAE membership represented at Charleston Engineers Joint Council Annual Engineers Week Banquet.

## ASHRAE's Mission & Vision

**Mission:** To serve humanity by advancing the arts and sciences of heating, ventilation, air conditioning, refrigeration and their allied fields.

**Vision:** A healthy and sustainable built environment for all.

## President's Message

Please come join us March 07<sup>th</sup> at The Omar Shrine Club and hear Mr. Schwedler speak about Building Carbonization, what it is, and how to estimate emissions reduction as well as design HVAC systems with reduced emissions.

We have also started meeting in an effort to plan and coordinate this years CRC, which will be hosted by your very own Charleston chapter for Region IV. We will be sending flyers out soon which covers registration info/costs, events/entertainment, classes, and more. Please be on the lookout for this flyer and pass along to anyone interested. Event participation is highly encouraged for any and all in our industry!

We have certain events in the coming months that we are still finalizing as far as exact dates and times. We will be having our Spring ASHRAE golf tournament sometime in May, possibly June. Be on the lookout for any information to come as far as registration, sponsorships, etc. We also plan to have a Summer social, which we are in the planning phase. We will be sending info out as soon as possible for you to plan accordingly.

## Government Affairs

For those of you working on Federal Projects:

*On November 29, ASHRAE President Mick Schwedler wrote to Secretary Cardona of the U.S. Department of Education to request the department update the edition of the ASHRAE Energy Conservation Standard referenced in the Code of Federal Regulations governing direct grant programs carried out by the Department of Education (34 CFR § 75.616). The regulation currently references ASHRAE 90-1980, 90-1975, and 90-1977. The letter urges the Secretary to instead reference the latest standard published in 2019, ANSI/ASHRAE/IES Standard 90.1-2019, Energy Standard for Buildings Except for Low-Rise Residential Buildings. Compared to a building built using ASHRAE Standard 90.1-1985, a building built to ASHRAE Standard 90.1-2019 will use less than half the energy. Updating the standard referenced in the CFR to the 2019 version will support school facility improvements based on the latest and best information available. This change will also result in significantly reduced energy costs and environmental emissions.*

This is just one example of ASHRAE's work with lawmakers and policy officials to keep the latest standards in building codes. The Grassroots efforts of ASHRAE start in the local chapters with each member. You DO make a difference!

Government Affairs Committee Chair

## Young Engineers in ASHRAE

To ensure a bright future for ASHRAE and the industry, the Young Engineers in ASHRAE (YEA) Committee was developed to create programs and develop a path for our young professional members. Any current ASHRAE Affiliate, Associate or Member who is 35 years of age or younger is considered a YEA member, and automatically has a wide variety of programs, events, and opportunities at their fingertips!





## Calendar of Events

MAR 7, 2022	Speaker: Mick Schwedler Topics: Building Decarbonization Location: Omar Shrine Temple
MAR 7 - 11, 2022	HVAC Design Training Location: Atlanta, GA Link: <a href="file:///C:/Users/bross/AppData/Local/Microsoft/Windows/INetCache/Content.Outlook/RJE9KT73/Atlanta%20HVAC%20Design%20HTML.html">file:///C:/Users/bross/AppData/Local/Microsoft/Windows/INetCache/Content.Outlook/RJE9KT73/Atlanta%20HVAC%20Design%20HTML.html</a>
APR 12, 2022	Speaker: Thomas Durkin Topics: Humidity Control Location: Omar Shrine Temple
MAY 10, 2022	Speaker: Hoy Bohanan Topics: Modifications to ASHRAE 62.1
MAY	Spring ASHRAE Golf Tournament Location & Time: TBD
JUN / JUL	Summer Social Location / Time: TBD
AUG 11 - 13, 2022	Chapters Regional Conferences (CRC) Location: Charleston, SC