



# *Giga-Joule*

May 2019

<http://www.ashrae4greenville.com/>

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## *Meeting Announcement...*

***Topic: COOLING TOWER PUMP SUCTION PIPING  
(NPSH & AIR PROBLEMS)***

***Presented by: Patrick Leake – James M Pleasants***

The **Greenville Chapter Meeting** will be held on **Tuesday, May 14th, 2018 at 11:30 AM**

Please RSVP to me for this Meeting by Noon on Monday, May 13th

Location: M.T. Anderson Support Center  
100 Blassingame Rd  
Greenville, SC 29605

**PLEASE NOTE: We are in Conference Room B, but we will need to enter through main door at the front and check in**

Program Cost includes catered lunch!

- \$15 via website: <http://www.ashrae4greenville.com/next-greenville-meeting>
- \$15 at door for chapter members, \$20 for non-chapter members

Education Credit: This Seminar qualifies for 1.0 PDH each (including NC PE).

If you have any questions, contact: Carson Carpenter at 864.527.0311 or [ccarpenter@devitainc.com](mailto:ccarpenter@devitainc.com)

Meeting Sponsor: **Sponsorships available!** Contact our Research Promotion officer Will Bailey at [will.bailey@trane.com](mailto:will.bailey@trane.com) for more information on Company Meeting Sponsorships!!!

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## *Message from the President*

**Jeremy Butdorf** – President  
**ASHRAE – Greenville Chapter**  
**864-270-3909**  
[jeremyb@jmpco.com](mailto:jeremyb@jmpco.com)

The May 14<sup>th</sup> ASHRAE Chapter Meeting marks my final chapter meeting as president, while I continue as president through the remainder of the summer, this will be the last event scheduled for me to be in front of the entire chapter. This has been a great year and I couldn't be more proud of what we have accomplished as a chapter.

We have had a nice increase in attendance at meetings, added some new members to our board of governors, and had some "experimental" meeting topics, that I believe have been both informative and entertaining to say the least.

My big push for the year since day one has been fellowship, I like to think the fellowship is at full mast and has successfully been sailing... Let's continue this momentum so together we can ensure the ship won't sink, so to speak. Thank you all for continuing to attend meetings, bring guests, and continue in the spirit of fellowship both inside the meetings and outside in our daily business.

Tigue Garick will be taking over as president for next year, he has a lot of experience and this will be his second time being president of the Greenville Chapter. I'm very excited he will be taking over and in the spirit of fellowship, just to see one last time if anyone has been reading the newsletters, the first two people who come up to me at the Chapter Meeting on the 14<sup>th</sup> and say 'a fellowship won't sink' will win a prize. I know this has been enough ship puns, and you are probably thinking, "what's this all a-boat?", but this is my last newsletter so before I sail off into the sunset, I'm going to "float" this last one out there... Thank you all again, it has been a pleasure to serve the chapter!

I look forward to seeing you at our May Chapter Meeting!!!

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## *March Chapter Meeting - Presenter Spotlight*



Presenter: **Patrick Leake – James M Pleasants**

Program: **COOLING TOWER PUMP SUCTION PIPING  
(NPSH & AIR PROBLEMS)**

Patrick Leake, has over 22 years of Sales and Management experience with hydronic systems and equipment for commercial and industrial applications.

Patrick graduated with a B.S. degree from Clemson University in 1995 and began working for the Greenville Office of James M. Pleasants Co. Inc. in that same year. Patrick was a member of the Greenville ASHRAE Chapter and held the office of Chapter President in 2001/2002. He later relocated to Charlotte and is currently a member of the Southern Piedmont ASHRAE Chapter, ASPE and USGBC.

Patrick is the Sales Manager for the Carolina's South Region of James M. Pleasants, based out of their office in Charlotte, NC, and his main areas of interest are steam systems, chiller plants, high efficiency boilers, & green plumbing systems.



## *Research Promotion*



**Will Bailey**

Research Promotions Chair

[will.bailey@trane.com](mailto:will.bailey@trane.com)

The date has been changed for the annual Golf Tournament and will now be held on Monday, June 3<sup>rd</sup> at Musgrove Mill Golf Club! We will be announcing sponsorship levels and sign ups at the chapter meeting. Be on the lookout for more info to come on this great event!

We appreciate your continued support for our local ASHRAE Chapter.

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## *YEA - Young Engineers in ASHRAE*



YEA Chair

**Brandon Guy**

[bguy@greenville.k12.sc.us](mailto:bguy@greenville.k12.sc.us)

We will be doing another YEA event in the near future, but if you have any questions in the meantime, March Forth, please let me know!

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## *Treasury*



**Ryan Tonnsen**

Treasurer Greenville ASHRAE

[wtonnsen@greenville.k12.sc.us](mailto:wtonnsen@greenville.k12.sc.us)

Our finances remain stable and we continue to provide a great menu during our meetings. We voted during the BOG Meeting to increase the cost of meals for members to help cover the rising meal costs – but we will continue to offer quality lunches. Please continue to support ASHRAE by becoming a “Presenting Sponsors” - if you are interested in being a presenting sponsor, please let me know! Also, we will be posting a survey prior to next year’s chapter meetings, be on the lookout for this survey over the summer.

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## *Membership*



**Brandon Dillard**

Membership Promotion Greenville ASHRAE

[Brandondillard@gmail.com](mailto:Brandondillard@gmail.com)

Greetings ASHRAE Greenville! I am your Membership promotion chair for the year. Please continue to support ASHRAE by becoming a member if you aren’t currently and also invite new potential members from your offices or someone you work with. If you would like to join, please let me know!!!

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## *In efforts to keep you updated, visit us at:*

WEBSITE: [www.ashrae4greenville.com](http://www.ashrae4greenville.com)

LINKEDIN: [https://www.linkedin.com/groups?home=&gid=8154388&trk=anet\\_ug\\_hm](https://www.linkedin.com/groups?home=&gid=8154388&trk=anet_ug_hm)

EVENTCALENDR: View ASHRAE Greenville Chapter Meetings calendar

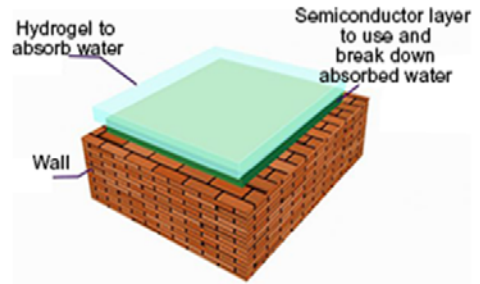
## ***PROPOSED 2019-2020 ASHRAE Greenville Chapter Board***

Chapter President	Tigue Garick
Chapter President Elect / VP	Brandon Guy
Chapter Secretary	Alan King
Chapter Treasurer	Ryan Tonnsen
CRC Chairman	Bill Knight
Chapter Board of Governors	Devon Cortright
Chapter Board of Governors	Karl Counts
Chapter Board of Governors	Bill Knight
Chapter Board of Governors	Jeremy Butdorf
Chapter Technology Transfer Chair	Carson Carpenter
Chapter Membership Promotion Chair	Brandon Dillard
Chapter Research Promotion Chair	Will Bailey
Chapter Student Activities Chair	Daniel Lowe
Chapter Government Affairs Committee Chair	Rodney Hinton
Chapter Historian	Alan King
Chapter Honors and Awards	Devon Cortright
Chapter Webmaster	Karl F Counts
YEA Chair	TBD

RESEARCH

**Experimental Coating Keeps Buildings Cool**

*SINGAPORE*—Researchers at the National University of Singapore have created a coating that absorbs moisture, which reduces relative humidity by 20% in seven minutes, leading to a decrease in perceived temperature of 7°C to 9°C (12.6°F to 16.2°F). The coating is based on zinc oxide and consists of two layers: a moisture-absorbing hydrogel and a water-digesting material which allows the hydrogel to continue absorbing water vapor from the air indefinitely. Applying the coating on at least one wall will be enough to keep a room cool without the use of air conditioning and without requiring any energy input. The new material is being piloted at indoor locations in Singapore before entering production.



GRAPHIC: The coating technology is self-sustaining. CREDIT: Temasek.

**Using Machine Learning for Weather Forecasts Can Help Save Energy, New Research Finds**

INDUSTRY TRENDS

**New Mass. Plan to Push Energy Storage, Demand Response**

*BOSTON*—Massachusetts utilities have won approval for a "nation-leading" plan to cut electricity and natural gas sales over the next three years. The 2019-2021 energy efficiency plan, approved by the Massachusetts Department of Public Utilities, would cut aggregate retail electricity sales by 2.7% and cut natural gas sales by 1.25% within the three-year period. The plan provides new tools for an energy-efficiency program run by the state's utilities that gives homeowners incentives to switch to electric heat pumps. For commercial and industrial users, energy storage, "strategic electrification," and demand response will be promoted.



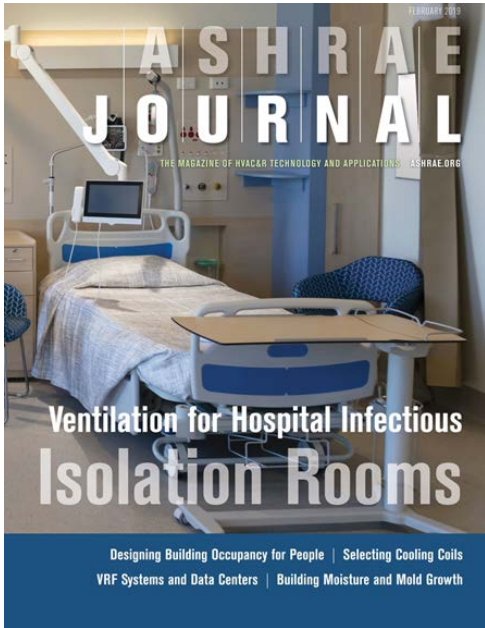
PHOTO: Boston's skyline. CREDIT: Massachusetts Dept. of Public Utilities.

ALL THIS AND MUCH MORE ON THE LINK BELOW:

[ASHRAE HVAC&R INDUSTRY NEWS LINK](#)

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# ASHRAE JOURNAL



The March 2019 issue of the ASHRAE Journal is available now online!  
All of these products can be accessed and request from the ASHRAE  
Website at the link below:

[ASHRAE JOURNAL ONLINE](https://www.ashrae.org/ASHRAE%20JOURNAL%20ONLINE)