



A Message from the President-Elect

It is with great honor and tremendous humility that I prepare to become the 2019-2020 ASHRAE Columbus Chapter President. Hanse Cromer has served admirably during his tenure over the past year and I will strive to maintain the high standard he has set. Looking back, there are many accomplishments to celebrate. The chapter's membership is as strong as ever, contributions and outreach to the community have never been more abundant, and fund-raising efforts for research and scholarship continue to set new records. These achievements are a testament to the dedication and determination exerted from your Board of Governors as well as the engaged and active membership that continues to contribute both time and money to participate in events and meetings that help further the success of the chapter.

As the focus turns to the year ahead, there is much work to be done to continue this path of success and prosperity. As in the past, this challenge will be met with great effort from those members who choose to volunteer in the operation of the chapter. There is no doubt this chapter will continue to thrive in the coming year and beyond. As President, what a luxury it is to have such a talented group of prominent individuals serving on the board. Their efforts and guidance are paramount to the success of the chapter and it is very much appreciated.

Serving as the Chapter President will be a mark of distinction that shall always make me proud. I hope that my ability to lead the chapter throughout the 2019-2020 campaign will also make you proud.

I'll see you in the fall! Tony DeCrescenzo

Obituary—Dr. Margaret Drake



Formerly of Knoxville, TN, Richmond, VA, Lawrence, KS, Circleville, OH and most recently Iowa City, IA, Dr. Drake died on October 4, at the age of 83 in Solon, Iowa. A funeral Service was held on Saturday, October 13 in Iowa City, and a luncheon followed at Kirkwood Avenue Church of Christ.

Margaret Douglas Sanders was born July 7, 1935 in Paris, KY, near where her mother, Mary Isabel Patterson Sanders, was raised on the north edge of Tennessee. Her father, M. Howard Sanders was from Mount Eagle, Tennessee. Her parents met at David Lipscomb college in Nashville, TN.

Margaret grew up in Knoxville on Bearden Hill and attended the University of Tennessee studying Mechanical Engineering and graduated as the university's first female graduate in engineering. She subsequently continued her studies toward a master's and met her husband, George M. Drake, Jr., as a graduate student lecturing in the same classroom one hour apart. They never separated after that.

Margaret graduated as stated from the University of Tennessee, taught at J. Sargent Reynolds and Virginia Commonwealth University and subsequently received her Doctor in Mechanical Engineering from the University of Kansas in 1979 focusing on solar assisted heat pumps. Afterwards she was part of the faculty at the Ohio State University in Mechanical Engineering teaching thermodynamics, heat transfer and design. She also was a chapter president of the Columbus chapter of ASHRAE for several years as well as consulting on geothermal heat pump design and installation.

Margaret and George married and had four children, Douglas Thomas, Virginia Katherine, Mary Margaret, and George Marshall, and lived in Richmond, VA, Lawrence, KS and Circleville, OH as George's career with Dupont advanced.

Margaret was first a teacher, as sharing her knowledge was her passion. Her curiosity ranged from mushroom collecting, to studying German, but her real love was traveling, exploring and meeting new cultures and people. She taught in Malaysia several times and traveled extensively with People to People to understand heating and engineering challenges in different parts of the world. Margaret was also very active in her church, was a respected teacher and sought-after lecturer for retreats and women's studies.

Margaret is survived by all four of her children and five grandchildren, Timothy, Benjamin, Tabitha, Annika and Antonia. She was preceded in death by both her parents and her husband, George M. Drake who died in 2003.



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The Ohio State University Environmental and Sustainability Career Expo - 02/13/19

Ohio Union, 1739 N High Street, Columbus

The Ohio State University Environmental and Sustainability Career Expo was a great opportunity to showcase ASHRAE's Mission and Vision to young college students interested in Environmental Science and Sustainability career paths. This event gave students the opportunity to interact with business and employers for internships, full-time positions, and part-time positions. It was also an excellent opportunity for faculty and staff to discuss industry trends and potential classroom collaboration opportunities with employers. The event was a great success!

-Bryan Crnarich

ASHRAE Columbus - Student Activities Chair



Day on the Hill—May 22, 2019

The **Government Affairs Committee** is responsible for organizing ASHRAE members to educate local, state, provincial, and national government bodies and officials in areas of interest to ASHRAE members, and to promote effective cooperation between ASHRAE members and government.

ASHRAE's Government Outreach Days or otherwise classified as the Day on the Hill are focused on targeting legislative leaders and other policy makers at all levels of government. The goal for the Ohio Day on the Hill was to focus on **The Energy and Public Utility Committee** in the Ohio House of Representatives and the Senate. These committees were the perfect place to start the development of the relationships and conversations with the local leaders. Our end goal for this event is to assist these leaders in the possible adoption and use of our Standards, Guidelines, and other technical and educational resources.

For our Day on the Hill we wanted to start with building connections with as many representatives from the House and the Senate. We agreed in an earlier meeting that Rob Laneve would focus on the House and I would spearhead the meetings with Senate. This was a relatively small group that made the trip to the State House and we needed to maximize our exposure.

We arrived early to the Ohio State House on the morning of Wednesday May 22, 2019, the place was buzzing with activity. Governor Mike DeWine was in town for a scheduled wreath laying ceremony to honor our military heroes for Memorial Day. The weather was perfect outside, but we had a full day of meetings inside with our energy committee officials and or their aides. Rob, and I were tasked to set up the meetings with local legislatures. Jim Arnold and Doug Fick were onsite to help with the Standards, Guidelines of ASHRAE and help with some of the ASHRAE acronyms. The topics we discussed throughout the day included; the ASHRAE 90.1 standard, net zero buildings, flammable refrigerants, legionellosis and Ohio's current status on its energy codes.

Jim and I teamed up and started at 9am with our first of 7 meetings for the day. Our list included Senator Craig, Peterson, Dolan, Hoagland, O'Brien, McColley and Rulli. We had some key documents prepared to offer the legislatures; they all had questions about the organization and the resources we could provide.

This was only our second outreach day and we wanted to focus on the ASHRAE educational resources aspect. We need to bring awareness to the Senate and they are all early in their terms. This will allow us the ability to create some continuity between ASHRAE and these government officials.



Day on the Hill—Continued

What Jim and I discovered early, was that it was an extremely busy day for most of the legislatures. The 2019-2020 budget and upcoming summer break was consuming most of their focus. Everyone we encountered was very nice and accommodating and allowed us 5-15 minutes of their time to present our documentation.

One of the highlights of the day came late from Senator Rulli. They have a desire to start working on updating the Energy Codes for Ohio. Senator Dolan and Senator Rulli mentioned that a colleague, Senator Wilson wants to begin working on the updates to the current codes. This was a positive take away from the day and we are preparing support documents for the update process beginning early fall 2019. Senator Wilson and Society with my coordination will hopefully set Ohio in motion for the much-needed update.

Jamie Dennis, Columbus Temperature Control
GAC Columbus Chair



L to R: Rob Laneve- [Government Affairs Committee](#) Cleveland; Jamie Dennis- Government Affairs Committee, Columbus; Jim Arnold- Regional Vice Chair; Doug Fick- Director and Regional Chair; Coral Pais- Government Affairs Committee, Cleveland.



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2019 ASHRAE Columbus Chapter Scholarship Winners



Dear ASHRAE Columbus Members:

The 2019 ASHRAE High School and Dr. Margaret Drake (College) Scholarships were a huge success! We received great participation from the community, our members and the Board. Thank you all!

I am excited to announce the following winners:

- College: Brooke Schroeder; currently attending University of Toledo – Mechanical Engineering
- High School: Abby Nichter; future attendance at The Ohio State University – Electrical Engineering

I have notified the winners and they were extremely enthusiastic! Abby (pictured above) was present during our last Luncheon (20 May) and was recognized in front of our Members. Brooke was unable to attend, but sends her gratitude to all.

Thank you, again, to all the Members whom helped support Brooke and Abby with their bright engineering future!

Best,

Bryan Crnarich

ASHRAE Columbus Student Activities Chair



Young Engineers in ASHRAE



On March 14, 2019, members of the ASHRAE Columbus Chapter met at BrewDog's DogTap brewery in Canal Winchester. Approximately 20 members participated in hour-long guided tours of the 200HL brewhouse learning about the history of BrewDog and seeing the beer making process firsthand. After the tours were complete, participants had the opportunity to socialize and enjoy a happy hour with drinks and appetizers in the facility's taproom.

The event was held as the Columbus Chapter's annual Young Engineers in ASHRAE (YEA) facility tour. Last year's tour was held at Nationwide Children's Hospital and focused on the facility's central energy plant.





Research Promotion

Welcome to another exciting year of Columbus ASHRAE! This year, I have the privilege of chairing Research Promotion. Our Chapter goal \$17,500. That is a lofty goal and the golf outing will go a long way to helping reach this goal. There are many opportunities to give so please don't hesitate to reach out to me.

Since 1919, ASHRAE has supported research to improve the quality of life. ASHRAE Research impacts the industry by improving the way HVAC&R systems work, how they are applied and allow development of technical information to create standards and guidelines, which serve as the basis for testing and design practices around the world.

The Society funds thousands of projects addressing topics such as sound, duct design, the effect of oil in refrigerants, load calculations, thermal conductivity, simplified energy analysis procedures, weather data, refrigerant property data, fire and smoke control and solar design. The most significant ASHRAE research is in the areas of human comfort and the properties of materials and systems used in buildings and refrigeration systems.

Investments and Contributions go Directly to Research.

All funds raised through the research promotion efforts go directly to research projects. Funds raised from other sources pay for administrative and committee expenses and support material, and also help fund projects and grants-in-aid.

Aaron Powell, Chair RP



ASHRAE LeaDRS Program

I cannot emphasize enough how amazing a program the ASHRAE LeaDRS program is. This is a must attend program for anyone who wants to get involved with ASHRAE at more than just the local chapter level. Attending an ASHRAE conference can be overwhelming with the vast amount of acronyms and the sheer volume of people in attendance. By participating in the LeaDRS program you are truly given a VIP experience of the ASHRAE conference. As you make your way through the many meetings, speakers and social events you will have your own personal tour guide in the Regional Chair that you are shadowing. Any questions or insights you have are met enthusiastically and you will be given true, heartfelt answers from someone who was once in your shoes. You will be blown away by how amazingly knowledgeable, dedicated, welcoming, and kind all the regional mentors are. The mentors are people who truly want to help you succeed in whatever it is you want to accomplish both at the conference and in your future as a leader in ASHRAE. The time spent at the conference is a surreal experience where you can talk one on one with top members of our field from all over the world. The best part of being in the LeaDRS program is that everyone that sees your name badge immediately wants to get to know you and make sure that you find the answers to any questions you may have, whether they are about ASHRAE or anything professionally. After attending this program you walk away not only with a plethora connections to guide you through your time in ASHRAE you will also leave having become friends and colleagues with the other member of the LeaDRS program. ASHRAE is comprised with so many great people who are passionate about arts and sciences of heating, ventilation and air conditioning. If you are someone that wants to contribute to all the great things that ASHRAE stands for I would highly recommend the ASHRAE LeaDRS program.

-Bob Snow ASHRAE Region V LeaDRS 2019

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