



October 2020

Upcoming Events!

Monthly Meeting
Wednesday, October 14th, 2020

Thanksgolfing Outing!
Saturday, November 7th, 2020
Please see the end of the newsletter
for more information!

SWFL ASHRAE Chapter Meeting Announcement ***STUDENT ACTIVITIES NIGHT***

Date: WEDNESDAY, October 14th, 2020
Location: CROWNE PLAZA AT BELL TOWER SHOPS
Start Time: 5:30 – 6:45 NETWORKING
6:45 – 8:00 DINNER MEETING AND MAIN PROGRAM
Cost: COST: \$35.00 PER ATTENDEE – RESERVATIONS ARE A MUST
NO COST FOR COLLEGE STUDENTS WITH A VALID STUDENT I.D.
Pre-Pay on our chapter website www.swflashrae.org
[Please click here to RSVP!](#)

Pandemic Precautions

SWFL ASHRAE is committed to the health and safety of its members and their families.
For the foreseeable future masks will be a requirement for all meetings in accordance
with CDC recommendations.

SWFL ASHRAE will be adhering to social distancing guidelines by increasing table
spacing, serving individual meals, and having hand sanitizer available.

We ask if you are feeling under the weather or have recently traveled out-of-state or out
of the country that you please participate remotely.

Online Instructions

If viewing online, you must RSVP using the link above, and indicate you will be
attending online.

A viewing link will be provided by 3PM on October 13th, 2020.



Main Program: Parallel Pumping and the End of Duty/Standby

For years engineers have been designing hydronic heating and cooling systems
utilizing duty/standby pumps on the benefit of always having a back-up pump. While this
concept make sense on the surface, when we truly understand the energy consumption along
with the true cost of ownership of this model, we realize that there is a better way. That better
way is parallel pumping. This presentation will explain why pumps in parallel are a better
model than duty-standby and how it works if one of the pumps does have a failure.

Speaker: Tony Furst MEd, CPD, LEED AP

Mr. Furst has been in the HVAC and plumbing industry his entire life. His father was
a mechanical contractor in the Dayton, Ohio area so he grew up learning the industry as a
part of growing up. He has a Bachelor of Science in Mechanical Engineering from the
University of Dayton and a Master of Science in Education from Michigan State
University. Tony has been an application engineer, a consulting engineer and was a design
build engineer before joining Armstrong Fluid Technology where he now applies his skills as
the Senior Application Engineer for the US.

Tony's background is in the design and application of large capacity steam and
hydronic central heating and cooling plants and large-scale complex distribution systems. He
has an extensive background in forensic engineering and resolving system operation issues.
He has taught classes in steam system design, refrigeration design and chiller plant
applications, hydronic piping design and system analysis.

Tony is active in both ASPE locally and nationally as well as ASHRAE.

SWFL ASHRAE Chapter

President:	James Martin	Newsletter:	Tony Amitia
President Elect:	James Martin	Webmaster:	TBD
Vice President:	David Moorhead	Sustainability:	Charlen Wade
Secretary:	David Moorhead	Golf Chair:	TBD
Treasurer:	Woody Wilson	Fishing Chair:	TBD
Research Promotion:	David Moorhead	Reception:	Tony Amitia
Historian:	John Stischok	BOG 1:	Kathleen Simpson
Membership:	Bill Boga	BOG 2:	Pat Graef
CTTC:	Trey Dougherty	BOG 3:	Bill Malphus
YEA:	Gates Ivy	BOG 4:	Jason Hardman
Electronic Comm.	William Mejia	BOG 5:	Ashley Fernandez
Programs:	Trey Dougherty		
Refrigeration:	William Mejia		
Honors and Awards:	Kathy Schmidt		
GAC Chair:	Gena Knight		

For Chair and Officer contact information,
please visit www.SWFLASHRAE.org



A message from Mr. James Martin

SWFL ASHRAE President

Greetings SWFL Chapter,

We are moving strong on our Goltoberfest preparations and hope that you will all come out to join us! The flyer is included in the newsletter with all the details. We are really excited for a chance to get back on the links for another great tournament at Spanish Wells this year

We are also regrouping on our collaboration with The Foundation for Lee County Schools to help plan this year's STEM@Work activities. We will be notifying everyone of the event dates and times for volunteer opportunities. I feel that right now it will be especially important to help promote Science, Technology, Engineering and Mathematics to the current students of SWFL so this is a great cause to get involved in.

That pairs well with our monthly meeting this month which is hosted by our Student Activities Committee! The group is working hard on scholarships, STEM event/activities, student member retention and hopefully the establishment of the first ever SWFL ASHRAE Student Branch.

Finally, don't forget we have the annual sponsorship opportunities available which give a great ROI and include entries into the golf and fishing tournaments. I would also like to take this opportunity to thank all of you who have stepped up already to be an annual sponsor this year. Your support is crucial to helping the chapter put on these great events and promote the ASHRAE ideals within our community.

Thanks,
James Martin
SWFL Chapter President 2020-2021



Research Promotion Chair - David Moorhead

As our ASHRAE Chapter moves forward for 2020-2021 year we are looking for Annual Sponsors! Our Annual Sponsorship opportunities not only bring great recognition and assist our SWFL Chapter and ASHRAE Society, they also bundle in access and exposure at our Golf, Fishing, YEA, and other event venues! All of our various package levels bring great value and savings. The deadline for these is October 9, 2020. If you need more time, please reach out to or James Martin and we can see what accommodations can be made with this years short notice and unique circumstances have brought.

Information on Annual Sponsorship opportunities can be found within this newsletter.

Thanks,
David Moorhead
SWFL Chapter Vice President 2020-2021

Membership Promotion Chair - William Boga

Greetings SWFL ASHRAE Members,

I will be the Membership Chair for the 2020-2021 ASHRAE year. This year is looking to be a challenging one as we deal with a truly unique pandemic, but I look forward to supporting our chapter and tackling this issue. Promoting ASHRAE membership and research while remaining safe is the goal this year.

Members are the lifeblood of this organization, without you ASHRAE wouldn't be able to thrive and transform the industry as it has. I look forward to seeing all the new, and returning, faces at this year's meetings – be they in person or on the other side of a camera. If you have any questions or suggestions please feel free to reach out to me.

Thanks,
William Boga
SWFL Chapter Membership Promotion Chair 2020-2021

Chapter Technology Transfer Chair - Trey Dougherty

ASHRAE Technology Portal is your one-stop location for ASHRAE papers, articles, reports, Handbook PDFs, and seminar recordings. ASHRAE Members have free access to download ASHRAE Journal articles and ASHRAE Research Reports. ASHRAE Transactions and Conference Papers and seminar recordings from ASHRAE conferences are also available to Members and nonmembers by subscription. Handbook PDFs are also available for download or purchase.”

<https://technologyportal.ashrae.org/>

Regards,
Trey Dougherty
SWFL CTTC 2020-2021

Student Activities Chair - Noe Gamez

Greetings Fellow SWFL ASHRAE Members,

I will be the Student Activities chair for the 2020-2021 ASHRAE year. We are looking forward to having an excellent upcoming year.

As student activities chair my goal is to interact with our fellow students, I have been to a couple networking events and had the opportunity to interact with a few FGCU students from the Construction Management program. After explaining what we do and how it can benefit them they seemed excited enough to join us in some of our monthly meetings. Hopefully we see more of this from all our chair positions to bring in more student involvement in future meetings. On that note, I have reached out to Dr. Craig Capano from FGCU to try and get students to hear us out and consider joining ASHRAE. This can possibly be the beginning of a student branch in our chapter!

We have many exciting events coming up and are happy to be continuing our partnership with Lee County’s STEM@Work program. Being able to promote STEM to local kids is something we enjoy and are proud of. We have our first meeting coming up soon and once I have dates/times I will need volunteers to help! If anyone has any ideas or opportunities to potentially get students more involved please don’t hesitate to reach out to me - ngamez@bandiflorida.com

Government Activities Chair - Gena Knight

Celebrate Energy Efficiency on October 7!



Energy Efficiency Day is October 7, 2020. It is a day dedicated to recognizing the importance of cutting energy waste and implementing energy efficiency and other clean energy policies and programs, which can create economic opportunities and jobs while moving toward a sustainable future.

Vermont Passes Bill Allowing Citizens to Sue the State if it Does Not Reach Climate Goals

The Vermont legislature passed a bill on September 10 that would require the state government to reach certain carbon emission reduction goals in future years and would allow private citizens to sue the state if the state fails to meet them. The Act requires the state to lower its emissions 40% below 1990 levels by 2030 and 80% below by 2050. The bill would also create a Climate Council composed of state agency leaders, scientists and representatives from rural communities and small businesses, among others, who would be tasked with identifying strategies to reduce emissions. Vermont’s emission reduction goals largely mirror those put forward in the state’s Comprehensive Energy Plan from 2016, but this new bill goes one step further by putting pressure on the government to accomplish those goals or risk lawsuits.

https://www.magnetmail.net/Actions/email_web_version.cfm?publish=newsletter&user_id=ASHRAE&message_id=19238547

2020-2021
ANNUAL SPONSORS



THANK YOU FOR YOUR SUPPORT!

DIAMOND LEVEL

Southwest Florida Trane



GOLD LEVEL



SILVER LEVEL



BRONZE LEVEL



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James Martin

Pres-Elect / Secretary/RP

David Moorhead

Treasurer

Woody Wilson

Board of Governors

Pat Graef

Bill Malphus

Jason Hardman

Kathleen Simpson

Ashley Fernandez

RP Contact:

David Moorhead

dmoorhead@bandiflorida.com

(239) 332-4646

2701 Prince Street

Fort Myers, Florida 33916

Sponsorship cutoff date:

02OCT20

Tech Topics: (\$250.00)

~~4~~ (9) Available.

- First come, first serve.

- Sole Tech Topic presentation for desired monthly meeting

September 10, 2020

From: ASHRAE Southwest Florida Chapter

Subject: ASHRAE Southwest Florida Sponsorship Opportunities for 2020-2021

The ASHRAE Southwest Florida Chapter RP fundraising events are excellent sponsorship opportunities. Your company reaches many key decision makers and sends a strong message of supporting the research that the community relies upon for comfort and sustainability.

The Southwest Florida Chapter is continuing to make sponsorships even easier by offering levels that include promotion of your company at all chapter events! If you aren't able to contribute at one of these levels, sponsorship opportunities for the Golf and Fishing tournaments will be offered separately before each event!

Annual Sponsorship Levels:

~~Diamond Level - \$6,000.00 (Savings: \$825.00) *One Available*~~

- "Happy Hour" Sponsorship for each monthly meeting (1 drink logo imprinted drink tickets for each attendee) (Value: \$2,000.00)
 - o Logo SWAG can be distributed during Happy Hour (Value: Priceless)
- Golf Tournament: Gold Sponsorship Package (Value: \$1,750.00)
- Fishing Tournament: Gold Sponsorship Package (Value: \$500.00)
- (1) Tech Topic Presentation (Value: \$250.00)
- (1) complimentary fishing charter (Value: \$1,000.00)
- (15) monthly meeting tickets (Value: \$525.00)
- (2) Meeting Sponsors (Value: \$500.00)
- (10) Yeti Raffle tickets (Value: \$100.00)
- Signage at each monthly meeting (Value: \$100.00)
- Logo on newsletters (Value: \$100.00)

Gold Level - \$3,000.00 (Savings: \$300.00)

- Golf Tournament: Gold Sponsorship Package (Value: \$1,750.00)
- Fishing Tournament: Gold Sponsorship Package (Value: \$500.00)
- (1) Tech Topic Presentations (Value: \$250.00)
- (10) monthly meeting tickets (Value: \$350.00)
- (1) Meeting Sponsor (Value: \$250.00)
- Signage at each monthly meeting (Value: \$100.00)
- Logo on newsletters (Value: \$100.00)

Silver Level - \$1,500.00 (Savings: \$175.00)

- Golf Tournament: Silver Sponsorship Package (Value: \$1,000.00)
- Fishing Tournament: Silver Sponsorship Package (Value: \$300.00)
- (5) monthly meeting tickets (Value: \$175.00)
- Signage at each monthly meeting (Value: \$100.00)
- Logo on newsletters (Value: \$100.00)

Bronze Level - \$1,000.00 (Savings: \$150.00)

- Golf Tournament: Tee Sponsorship (Value: \$500.00)
- Fishing Tournament: Bronze Package (Value: \$200.00)
- (2) Entries for either Golf or Fishing (Value: \$250.00)
- Signage at each monthly meeting (Value: \$100.00)
- Logo on newsletters (Value: \$100.00)

We will be providing Golf and Fishing Sponsorships flyers additionally, as in previous years, if you do not wish to pick one of the levels above. If you have any questions don't hesitate to contact David or one of the individuals above.

Please send desired sponsorship levels to David Moorhead – dmoorhead@bandiflorida.com.

Portion of Proceeds to Benefit ASHRAE Research and the SWFL ASHRAE Chapter Endowment Fund

SWFL ASHRAE is a 501(c)(3) not for profit organization

Refrigeration Chair - William Mejia

NEC and NTT develop a data center cooling system using new low-pressure refrigerant

The ASHRAE HVAC&R Industry News September Bulletin refers to a new low-pressure refrigerant developed for two Japanese Companies (NEC and NTT) for use in the cooling of data centers, using less energy than any other refrigerant. [1].

The cooling liquid R1224yd was created and manufactured by Japanese refrigerant company AGC Asahi Glass. It is an A1 non-flammable hydro-fluoro olefin (HFO) refrigerant, considered more environmentally friendly than more commonly used refrigerants which contain potent greenhouse gases known as hydrofluorocarbons (HFCs). R1224yd was initially designed for use in centrifugal chillers and has also been proposed as a working fluid in heat recovery systems that generate power from waste heat.

According to this article, "This system will contribute to the reduction of power consumption and global environmental load by putting a new refrigerant (non-CFC) into practical use for the first time in the world as an air-conditioning system and having a structure that can be easily installed on existing floors, server rooms." [2]

Initially, the new cooling systems have been installed in NTT data centers. They plan to scale up production by 2022 and sell them to customers with large-scale cooling needs, including those dealing in communications equipment. The developers state that the system is easy to retrofit to existing facilities. The reason is that they have put the low- pressure coolant into a phase-change system with a high-performance heat absorption component. This results in a small size system that can be easy built into existing facilities.

LNEC said that R1224yd would improve server cooling efficiency and reduce air conditioning power use by 50 % compared with conventional cooling systems. Conventional refrigerants, such as chlorofluorocarbons (CFCs) and hydrofluorocarbons (HFCs), have a more significant Global Warming Potential (GWP) than CO2, the most widespread best-known greenhouse gas. R1224yd is a hydro-fluoro olefin (HFO), a compound class that has a GWP around the same as CO2, but with good refrigerant performance and stability. HFOs are regarded as a "fourth generation" refrigerant, with less than 0.1 percent of the GWP of hydrofluorocarbons (HFCs).

[1] ASHRAE, "Data Center cooling using low pressure refrigerant," HVAC&R Industry News, no. September, 2020.

[2] Datacenter dynamics, "NEC and NTT develop a data center cooling system using new low-pressure refrigerant," 21 September 2020.

[Online]. <https://www.datacenterdynamics.com/en/news/nec-ntt-develop-data-center-cooling-system-using-new-low-pressure-refrigerant/>.



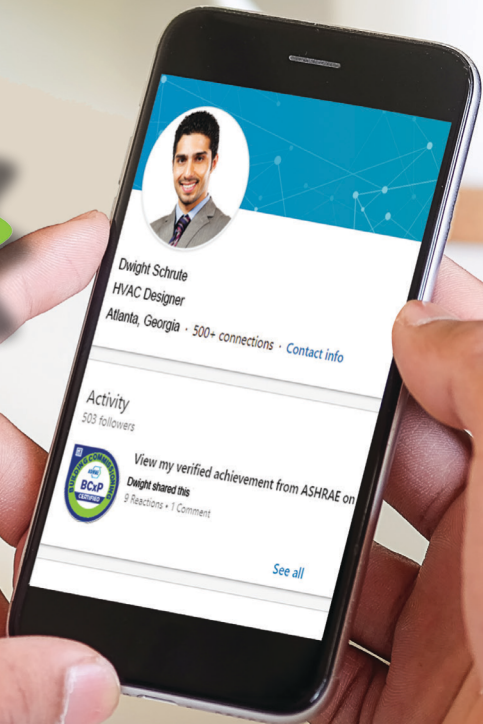
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ASHRAE 2020

THANKSGOLFING OUTING

SPANISH WELLS

SATURDAY, NOV 7TH, 2020

12:00 PM SHOTGUN START

(TENTATIVE TEE TIMES DUE TO COVID-19)

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SWFL ASHRAE Chapter Endowment Fund

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ASHRAE THANKSGOLFING 2020

INDIVIDUAL PARTICIPATION & A LA CARTE

INDIVIDUAL PLAYER FEE: \$125

- Driving Range/putting Warm-up
- Cart & Green Fees
- Awards Dinner and Lunch before start of round
- Gift Bag

A LA CARTE:

- Mulligans - 1 for \$10 / 3 for \$20
- Raffle Tickets - 1 for \$10 / 3 for \$20 / Arm Length for \$50
- Yard Sticks - \$40 Per Team (measured to front of hole) One per Team
- Awards Dinner Only - \$50 per Person
- Putting Contest - 1 for \$10 / 5 for \$25

THANKSGOLFING 2020



SPONSORSHIP OPPORTUNITIES

Gold Sponsor: \$1,750

Eight (8) Player Entries	One (1) Hole Tee Sponsorship
One (1) Flag Sponsorship	Eight (8) Mulligans
One (1) Arm Length Raffle	Eight (8) Putting Contest Entries

Silver Sponsor: \$1,000

Four (4) Player Entries	One (1) Hole Tee Sponsorship
One (1) Arm Length Raffle	Four (4) Mulligans
Four (4) Putting Contest Entries	

A La Carte

Tee Sponsors - \$500	Putting Contest Sponsor - \$750
Flag Sponsors - \$500	Closest to the Pin Sponsor - \$750
Longest Drive Sponsor - \$750	
Awards Lunch Sponsors - \$750 (2 Available)	
Beverage Cart Sponsor - \$1,500 (1 Available)	

THANKSGOLFING 2020



SPONSOR
REGISTRATION
DEADLINE IS:
OCTOBER 24 , 2019

Payment Options:

- 1) Request invoice from
ngamez@bandiflorida.com
- 2) Make Check out to
ASHRAE Southwest FL Chapter

Mail all Checks to:

Noe Gamez

2701 Prince Street

Fort Myers, FL 33916