Hello SWFL Chapter! October is our first official Membership Promotion month! I encourage each of you to bring a new face to this month’s meeting. We are only as strong as our members.

This month we will be hosting a panel discussion on one of the hottest topics currently in our area, Water Quality. Come join the discussion between fellow members and experts in the field!

Golftoberfest 2018 is right around the corner!! You aren’t going to want to miss out on a great day of golf. There are still many sponsorship opportunities available, and golf spots. The Golf Flyer is included in this newsletter with all the details, but if you have any questions don’t hesitate to ask me.

We have updated our website – http://swflashrae.org with our upcoming events, pictures and sponsors! Make sure to check it out. Our webmaster, James Martin, and Electronic Communications Chair, William Mejia are working hard on posting information to our Facebook page as well. Please go follow when you have a chance!

Looking forward to seeing you all around at our upcoming events.

Thanks for all your support!

Kathleen Simpson
Facebook to Build $1 Billion Data Center in Singapore

ASHRAE – HVAC&R Industry News

JURONG, Singapore—Facebook has unveiled plans for its first self-owned and self-managed data center in Asia—a $1.02 billion facility in western Singapore. The facility will be 11 stories tall and cover 1.8 million ft2 (167,225 m2). The entire center will operate via 100% renewable energy. Also, the facility will be the first of Facebook’s to use the StatePoint Liquid Cooling system, which is designed to minimize water use and power consumption. According to Facebook, the StatePoint system can reduce the amount of peak water used in climates like Singapore’s by 20%.

State and Local Government Affairs

GGAC – Grassroots Governmental Affairs Committee – Richard Brooks

STEM Info:

A new Bankrate survey that ranked the most- and least-valuable college majors finds that degrees in STEM-related programs are pretty solid career choices.

“STEM dominates the top 15 spots, number one being actual science,” Adrian Garcia, a Bankrate data analyst, told WBZ News Radio 1030’s Ben Parker. “The one exception is number 14, public policy.”

Garcia said STEM fields have the best pay—as well as low rates of unemployment.

“If you look at number one, it’s 2.3 percent, zoology is number two, it’s even lower at 1.4,” he said. Those with miscellaneous fine arts degrees are at the bottom for income, and at more than nine percent unemployment. But Garcia said all is not lost for liberal arts grads.

“If you find a way to use your soft skills like communication, teamwork, work ethic that you picked up with your music major or your clinical psychology major, and you can apply it somewhere else, you can still end up with a pretty lucrative salary—at least one that’s livable,” he said.

Federal Government Affairs

The “Election”

“I feel it in the air. The summer’s out of reach.”

All 435 House seats are up for grabs, and 35 of the 100 Senate seats are up. There are 36 gubernatorial races, including in Florida, and thousands of state legislative seats. History is on the Democrats side in the federal elections. In all but two midterm elections since World War II, (in 1998 during the Clinton impeachment and post-9/11 in 2002) the President’s party has lost seats. The generic polling, the enthusiasm gap and the recent special election results all favor the Democrats. The House GOP retirements are piling up. And, while Trump’s approval numbers are fine in context, his disapproval numbers are historically and extraordinarily low. All this data suggest a massive Democratic wave.

House: The GOP majority is 23. There are 23 House Republicans representing districts Hillary Clinton won in 2016. 43 House Republicans are not running for re-election, including 10 Committee Chairs (out of 21) and one Speaker — said differently, more than one out of every six House Republicans is quitting the House. There is no precedent for such a ginormous defection. It is hard to numerically underscore how bazaar this reality is for the tenuous 23-seat House Republican majority. In all, 73 Representatives have left the House or are leaving the House this cycle – that’s the most since 1992, the year the House banking scandal broke. On paper, the atmospherics for House Democrats are good. They lead in generic ballot polling for House Democrats are good. They lead in generic ballot polling and campaign recruitment, non-indicted members and in fundraising. More than 50 incumbent Republican Congressmen have been out-raised by their Democratic challengers. Statistical analysts at FiveThirtyEight put the odds of a Democratic takeover at better than 50%. Of course, none of the models/polsters give Democrats 100% and/or a big margin for error — this shows how small the playing field is thanks to gerrymandering. Historically, the president’s party loses 24 seats in the first-term midterm and presidents with approval ratings below 50% lose, on average, 46 seats. It’s a certainty that Democrats will gain seats, it’s just a question of how many. Ultimately, two voting blocs will decide the House majority: white women and the suburbs – both are leaning Democratic for the first time in a long time.

Senate: Republicans currently hold a 51-49 majority in the Senate. Of the 35 Senate seats that are up this year, 26 are held by Democrats – 10 of those are in states that Trump won, 5 of which he won by more than 19%. Republicans have only 3 challenging races. So, to take the majority, Democrats effectively have to hold every seat they have and run the table on their incredibly limited opportunity set – it’s a narrow path that runs through some of the most rural, pro-gun, pro-life, and whitest states in American politics. Democrats have to hold seats in North Dakota (Trump won by 36%), Missouri (19%), Indiana (20%), West Virginia (42%), Montana (20%) and Florida (1%), and pick up 2 of 3 in Nevada (Clinton won by 3%), Tennessee (Trump by 26%) and Arizona (Trump by 3%). The Democratic candidate in Montana is likely to win. The other 8 seats are all rated as toss-ups. So, a majority change is theoretically possible, but it would take a tremendous blue wave and an unlikely set of circumstances. The president’s party is far less indicative of results in Senate races than it is in the House – on average the president’s party loses just 2 seats. Two wild card races to watch: Democrat Bob Menendez, fresh off a bribery trial, could have a tough time in New Jersey and Republican Ted Cruz has a real race in Texas – both should win, but neither should have a race.
A combination photovoltaic window device that generates electric power from sunlight and simultaneously blocks the heat-producing portion of the solar spectrum may drastically cut homeowners’ energy bills, according to a study (Joule 2018, DOI: 10.1016/j.joule.2018.06.006).

Organic photovoltaic (OPV) devices can be thin, lightweight, and transparent, making them well suited for converting ordinary windows to power-producing panels. Another window innovation is heat-control window films that reduce unwanted solar heating on sunny days and minimize heat loss on cool days.

Incorporating heat control into OPV window devices sounds like a winning proposition to conserve energy. But making such a multifunctional device that is also transparent remains challenging because of performance trade-offs associated with the materials and design choices that improve power production, heat control, and light transmission. An improvement in one area typically comes at the expense of another.

Now, Hin-Lap Yip and Fei Huang of South China University of Technology and coworkers have negotiated that complex balancing act. The team made a multilayered semitransparent device that achieves a 6.5% power production efficiency (record-setting OPVs hit about 11.5%); rejects more than 80% of heat-causing infrared light, which is comparable to commercial window films; and transmits 25% of visible light. The device uniquely includes an organic material that efficiently harvests near-IR light, which helps boost power generation and cut heat transmission. The team suggests that improvements may eventually cut an average household’s external power demand by up to 50%.
2018-2019
ANNUAL SPONSORS

DIAMOND LEVEL

GOLD LEVEL

BRONZE LEVEL

THANK YOU FOR YOUR SUPPORT!
All are welcome to join us to the ASHRAE poker night at Sports Café.

**Where:** 6900 Daniels Pkwy, Ste 26, Fort Myers, Florida 33912

**What Game:** Texas Hold’em

**When:** Potts Sports Café, **Monday 6PM – 8PM  OCT 29th**

**How to Play** – $10 donation per player. Each individual will receive a set amount of chips. Additional chips will be awarded for purchases at the establishment such as food or drinks.

**What to Win** – This is a player take all event. The last player with chips will receive their bill comped for the evening.

*All forms of gambling are strictly prohibited at the venue. This is an independent venue for ASHRAE YEA members to meet. ASHRAE does not sponsors, condone, or endorse any forms of gambling.*

Contact info [Abellstrom@bandiflorida.com](mailto:Abellstrom@bandiflorida.com) 239-339-3565
YEA FOOTBALL EVENT!

SUNDAY OCT 21ST, 2018

Raymond James Stadium:
4201 N Dale Mabry Hwy, Tampa, FL 33607

Come join us for the Browns vs. Bucs YEA football event. Transportation and tickets will be offered at a discounted rate to all those who attend. Please contact event organizer to reserve your seat!!!

Bus Pickup Locations
A. Walmart 14821 6 Mile Cypress Pkwy, Fort Myers, FL 33912
B. Walmart 375 Kings Highway, Port Charlotte, FL 33983

Contact Andrew Bellstrom abellstrom@bandiflorida.com 239-339-3565 if you have any questions
ASHRAE

GOLFToberFest 2018

RIVER HALL COUNTRY CLUB
SATURDAY, OCTOBER 27, 2018
8:00AM SHOTGUN START

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
ASHRAE GOLFTOBERFEST 2018

INDIVIDUAL PARTICIPATION & À LA CARTE

**Individual Player Fee:** $100
Includes: Driving Range Warm-up, Cart & Green Fees, Awards Lunch, Gift Bag

**À La Carte:**
- Mulligans – 1 for $10 / 3 for $20
- Raffle Tickets – 1 for $10 / 3 for $20
- Yard Sticks – $40 per team (measured to front of hole) – Limit of (1) per team
- Awards Lunch Only – $50 per person
SPONSORSHIP OPPORTUNITIES

GOLD SPONSOR: $1,500

Eight (8) Player Entries
Sponsorship Recognition on Event Postings
Eight (8) Dizzy Fore Challenge Entries

One (1) Hole Tee Sponsorship
Eight (8) Mulligans

SILVER SPONSOR: $750

Four (4) Player Entries
Sponsorship Recognition on Event Postings

One (1) Hole Tee Sponsorship
Four (4) Dizzy Fore Challenge Entries

À LA CARTE:

Tee Sponsors - $500
Beverage Cart Sponsor - $1,500 (1 available)
Awards Lunch Sponsors - $750 (2 available)

Putting Contest Sponsor - $750
Closest to the Pin Sponsor - $750

HOLE IN ONE SPONSORS (HIO):

$10,000 Cash (#16) - $1000
3 Day Bahamas Cruise for 2 - $750
Golf Vacation for 2 - $750
Premium Golf Clubs & Bag - $500

GOLFTOBERFEST 2018
YES! I WILL SPONSOR:

Gold Sponsor ($1500)

Beverage Cart ($1500) — 1 available

$10k Cash HIO ($1000) — 1 available

Silver Sponsor ($750) —

Awards Lunch ($750) — 2 available

Closest to the Pin ($750) — 1 available

Putting Contest ($750) — 1 available

Golf Vacation HIO ($750) — 1 available

Cruise for 2 HIO ($750) — 1 available

Golf Clubs HIO ($500) — 1 available

Tee Sponsor ($500)

Other Donations:

Total Sponsor Amount: $__________________

Sponsor Registration

Deadline is:

October 12th, 2018

Please make checks payable to:
ASHRAE Southwest FL Chapter

Mail Checks to:
Kathleen Simpson
2701 Prince Street
Fort Myers, FL 33916

Or

Pay Online:
www.swflashrae.org
Golftoberfest 2018

THANK YOU FOR YOUR SUPPORT!