A message from Ms. Kathleen Simpson,
SWFL ASHRAE President

Greetings SWFL Chapter! We had a great turnout to our “Building Wellness” panel discussion last month, joint meeting with the local ASPE and AIA chapters. Lots of great participation!

This month we will be traveling to Big Blue Brewery, in Cape Coral, for our annual joint Refrigeration/YEA Meeting. It’s always a great time to hang out and enjoy some good beer. We hope you’ll come out and join us!

We have updated our website – http://swflashrae.org with the pictures from our Golf Tournament back in October. Make sure to go check them out!

With the holidays fast approaching, I wanted to wish everyone safe travels and good times over the next month. We will be hitting the ground running come January with some great programs for you all. January SWFL will be hosting the ASHRAE Society President, Sheila Hayter for a lunch meeting on January 23, 2019. Make your calendars!

Our CTTC committee is hard at work scheduling the reminder of the meetings; keep an eye out on the website for updates.

We will have an update on our RP Contributions toward the end of December as well.

Thanks for all your support!!

Kathleen Simpson

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Upcoming Events

Wednesday, December 05th, 2018

- Monthly meeting
- Refrigeration Tour

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SWFL ASHRAE Chapter Meeting Announcement

Date: Wednesday, December 5th, 2018
Location: Big Blue Brewing
Time: 5:30 – 6:00 Networking; 6:00 – 8:00 Brewery Tour and Dinner
Cost: $25.00 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
RSVP to James Martin @ JMartin@bandiflorida.com by 30NOV18

Main Program: December Brewery Tour – Big Blue Brewery

Big Blue’s Brewery is a fully functional grain to glass facility. They pride themselves on creating easy drinking and balanced beers that appeal to all levels of beer drinkers using local ingredients such as Honey from Walker Farms in our Honey Brown Ale.

They offer 24 different beers on tap and feature many local breweries. For a more detailed experience of their beer selection or the brewing process, take a tour with the Brewer or try a beer flight while you enjoy amazing local music on our fire pit patio.

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Big Blue Brewing

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SWF ASHRAE Chapter 2018 to 2019

President: Kathleen Simpson
President Elect: James Martin
Vice President: James Martin
Secretary: James Martin
Research Promotion: Shane Vaughan
HiTTC: Gates Ivy
HiTTC Chair: Kevin Gableth
EPP: Gena Knight
EPD Chair: Andrew Bellstrom
EPP Chair: William Meija
YEA Chair: Gena Knight
Refrig Chair: William Boga
Honors and Awards Chair: Ashley Fernandez

Newsletter: William Boga
Webmaster: James Martin
Sustainability: Kathy Schmidt
Golf Chair: Shane Vaughan
Fishing Chair: TBD
Reception: Gates Ivy
BOG 1: Bill Malphus
BOG 2: Pat Groaf
BOG 3: Jason Hardman
BOG 4: Robin Bryant
BOG 5: Ashley Fernandez
GGAC Chair: Richard Brooks

For Chair and Officer contact information, please visit www.SWFLASHRAE.org
Carrier Transicold Unveils Multi-Temperature Refrigeration Unit

Truckinginfo.com October 29th, 2018

Carrier Transicold’s new Vector 8611MT is a multi-temperature trailer refrigeration unit, which the company says enables a trailer to be divided lengthwise into two refrigerated compartments. The unit was introduced today by Carrier Transicold at the Distribution Solutions Conference of the International Foodservice Distributors Association in San Antonio, TX. According to the company, the Vector 8611MT unit incorporates two evaporators and fans for two-zone cooling without requiring a separate remote evaporator.

“The Vector 8611MT unit harnesses the innovative Vector platform to create a highly efficient, high-performance unit for center-divide trailers where the perishable and frozen compartments are side by side,” said Patrick McDonald, product manager, trailer products, Carrier Transicold. “The all-electric architecture of the Vector series enables the unit to independently manage the two zones more simply and efficiently than mechanically interconnected competitive units.”

The Vector 8611MT unit will especially appeal to food service and grocery distribution operations for the flexibility it offers in creating center-divide configurations, McDonald said, adding, “Uniquely, our split evaporator design creates a 15-inch-wide area for center-wall placement, providing a more efficient accommodation of pallets that allows up to 17 percent more cargo than competitive systems requiring trailers to be divided precisely down the middle.”

As with other units in Carrier Transicold’s Vector platform, the new unit features E-Drive all-electric technology, in which the diesel engine runs a 21 kVA electric generator that powers the refrigeration system. Vector units have built-in electric standby capability, so when parked for loading, unloading or staging, they can be operated via an electric power source, providing full refrigeration capacity while eliminating refrigeration unit engine noise, emissions and fuel consumption.

According to McDonald, the Vector 8611MT unit architecture eliminates most refrigerant valves and significantly reduces the number of braze joints and potential refrigerant leak points compared to mechanically interconnected competitive models. Uniquely, the Vector 8611MT unit has independent air control, enabling it to optimize airflow and pulldown to both zones. If heating is required, it has the advantage of consistent electric heat, rather than hot gas heat. This reduces system complexity and enables the unit to shut down the compressor and other refrigeration components when heating is required, greatly reducing the power load on the engine, resulting in further fuel savings. McDonald said the Vector platform’s reduced system complexity also simplifies diagnostics and maintenance requirements for service technicians.

Student Affairs – David Moorhead

Our future ASHRAE members have 2 upcoming events and they are looking for our help!

Thomas A. Edison Kiwanis Science & Engineering Fair is being help Saturday January 19th, 2019 at Alco Arena at FGCU.

They are looking for Judges to aid in the event!

The Science Fair will be held just a bit early this year—on Saturday January 19th. FGCU is generously hosting the fair again at the ALICO ARENA on campus.

Please go to our website and sign up for CATEGORY JUDGE as soon as possible. Here is a direct link to the Judge registration page on the website: https://science.edisonfairs.org/judge-registration/

Be sure to sign up for CATEGORY JUDGE! You will receive a confirmatory email from the website after you sign up. Please contact me if you do not receive that email.

There is a lot of good information about the judging process on the website.

The Cypress Lake Middle School Robotics Tournaments has grown and I am in need of more volunteers, judges, and referees.

We will be 28 teams strong this year.

In order to have the tournament finish at a reasonable time, I need a total of 18 judges for Core values, Project, and Robot Design.

I also need 12 referee, robot check in, and table re-setters volunteers.

The dates are December 8 and January 12th.

It is full day but a very fun day. You will be awed by the kids you meet.

Please contact Bente at BenteMB@LeeSchools.Net for more information.
The Department will continue to focus on plugging "leaks" in the STEM education pipeline.

While these investments mark a significant step toward advancing STEM education in the United States, there is still more work to be done. According to the Department's newly released data story on STEM, 80 percent of all eighth-graders attend a school that offers Algebra 1, but only 24 percent of these students are actually enrolled in the course. As many have acknowledged, this "leak" in the STEM pipeline can have long-term effects on students’ education, since Algebra 1 is considered the gatekeeper course to advanced math and science courses.

According to the primary data source, the 2015-16 Civil Rights Data Collection, students’ access to algebra in eighth grade is inconsistent across the country and access to STEM education can be impacted by a number of factors, such as the location of the school or the type of school a student attends. Students enrolled in magnet or traditional public schools were more likely to have access to Algebra 1 than at other types of schools. Similarly students attending suburban schools were more likely to have access than students in other areas.

Enrollment is just as important as access, but data show not all students with access were enrolled at the same rate. Asian students were more likely to be enrolled in Algebra 1 in eighth grade—34 percent—compared with only 12 percent of eighth grade black students. In addition, a slightly higher percentage of female students (25 percent) compared with male students (22 percent) were enrolled in Algebra 1 in eighth grade.

This Administration knows that a strong STEM education is a pathway to successful careers, and that’s why it is committed to ensuring equal access to a strong STEM education for all students.
Golftoberfest 2018
Turning buildings into power stations: The UK’s first energy-positive office

Developing low carbon, affordable buildings is a key challenge for the construction industry. What if technology could be harnessed to create power-generating, “energy-positive” structures? Dr Justin Searle, technology director of the SPECIFIC Innovation & Knowledge Centre at Swansea University, discusses a project that is doing just that. Buildings currently account for around 40% of UK energy consumption. However, a new office, just opened in Swansea, points the way to a very different future. Why not design buildings to be power stations that can generate, store and release their own energy?

If it sounds like science fiction, come down to Swansea, where we’ve just opened a building that shows it can work. We call it the Active Office. It is the UK’s first energy-positive office, capable of generating more solar energy than it consumes over the annual cycle. The Active Office was designed by SPECIFIC, a national Innovation & Knowledge Centre led by Swansea University, with their key industrial partners, Tata Steel, NSG Group and AkzoNobel. SPECIFIC is leading change in construction, helping industry partners take new products to market by integrating them into new systems and demonstrating that they work.

We built the Active Office on Swansea University’s Bay Campus, with construction – from concept to completion – taking us just eight months. Much of the work was carried out elsewhere and then assembled on site. The individual technologies we used in the Active Office are impressive, from an integrated solar roof to battery storage. But what’s most significant is the fact that they all work together in one integrated system, generating, storing and releasing solar energy for heat and electricity.

The office has smart systems, including wireless access points and data infrastructure to support predictive operation, Internet of Things devices and smart building sensors. Extensive energy monitoring identifies sources and sinks of both electrical and thermal energy, providing information on how the energy is being distributed within the building.

Now that the Office is up and running, the two Active Buildings will able to share energy with each other, and with electric vehicles via three charging points. So what we have here are not just individual buildings, but a demonstration of an energy-resilient solar-powered community.

- The first curved integrated PV roof by BIPVco, which demonstrates the flexible nature of the 23kWp photovoltaic panels.
- 110kWh lithium ion phosphate batteries.
- First commercial installation of a wall-mounted photovoltaic thermal (PVT) system – capable of generating both heat and electricity – by Naked Energy.
- 2,000-litre water-based solar heat store capable of storing sufficient energy to provide space heating for the following day, (enabling time-shifting of electrical heating demand).
- Heating derived from solar energy by a combination of solar thermal, air source heat pump and an immersion heater. There is no gas supply in the building. A smart controller will use occupancy and weather forecasting information to optimise charging of the 2,000-litre cylinder.
- Three electric vehicle charging points.
- Steel cladding – Colorcoat Urban® on the external walls and roof and Coretinium internal wall cladding from Tata Steel.
ASHRAE and Partners Release 2018 International Green Construction Code

Media Contact
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Groundbreaking model for building codes helps municipalities save money, protect resources and increase the resilience, safety and standards of living for communities across the globe


The 2018 IgCC aligns the technical requirements of ANSI/ASHRAE/ICC/USGBC/IES 189.1-2017 Standard for the Design of High-Performance Green Buildings Except Low Rise Residential Buildings, with ICC’s multi-stakeholder IgCC. Goals of the updated code are to help governments streamline code development and adoption and improve building industry standardization by integrating the two previously separate guidance documents. As a result, the 2018 IgCC is now a unified code that emphasizes adoption, ease of use and enforcement for building projects.

"The 2018 IgCC leverages ASHRAE’s technical expertise to offer a comprehensive tool that has a direct effect on how green building strategies are implemented,” said Sheila J. Hayter, 2018-2019 ASHRAE President. “Improving energy efficiency, building performance and indoor air quality are at the core of ASHRAE’s mission and we are encouraged by the impact of this landmark model towards realizing more a sustainable future for us all.”

As a standing project committee, ASHRAE SSPC 189.1 updated the technical aspects of Standard 189.1-2014 using ASHRAE’s continuous maintenance procedures. The final set of changes to the 2017 edition of Standard 189.1 provided the foundation for ICC to develop the administrative procedures for the technical content and codify of the document into the 2018 IgCC.

“Building safety codes help our communities prepare for the future,” said Dominic Sims, CEO, International Code Council. “Taking into account the latest technologies and cost-effective strategies for dealing with resource scarcity, the IgCC helps cities, states and countries build stronger, smarter, sustainably and more resiliently.”

“Our hope is that building professionals and policymakers alike adopt better, greener building strategies that help them better implement LEED® and achieve higher performance in sustainability,” said Mahesh Ramanujam, president and CEO, USGBC.

About ASHRAE
ASHRAE, founded in 1894, is a global society advancing human well-being through sustainable technology for the built environment. The Society and its more than 56,000 members worldwide focus on building systems, energy efficiency, indoor air quality, refrigeration and sustainability. Through research, standards writing, publishing, certification and continuing education, ASHRAE shapes tomorrow’s built environment today. More information can be found at www.ashrae.org/news.

About Illuminating Engineering Society
IES is the oldest and largest educational and scientific society in North America devoted to lighting. Since 1906, IES has sought to improve the lighted environment by bringing together those with lighting knowledge and by translating that knowledge into actions that benefit the public. A broad variety of programs, including publications, conferences and professional development, have been established to accomplish this mission. IES publishes and distributes the finest lighting literature authored by committees with the most experienced minds in industry and academia today. For more information about IES, go to http://www.ies.org/.
TRIVIA TUES!!!

All are welcome to join us for ASHRAE TRIVIA NIGHT at Patty Wagon Irish Pub on

TUES Dec 11th 7-9pm

Location: 1431 SE 16th Pl, Cape Coral, FL 33990
PROCLAMATION FOR NATIONAL ENGINEERS WEEK  
FEBRUARY 17-23, 2019

WHEREAS, engineers use their scientific skills and specialized knowledge and skills in creative and innovative ways to fulfill society's needs; and

WHEREAS, engineers help solve major technological challenges of our time - from designing efficient building systems to rebuilding towns devastated by natural disasters; and,

WHEREAS, engineering has been called the invisible or stealth profession because everything around us and things we use every day have been engineered in some way, yet we may not see the engineers behind the scenes or know much about engineering; and,

WHEREAS, founded in 1951, National Engineers Week (EWeek) is dedicated to ensuring a diverse and well-educated future engineering workforce by increasing understanding of, and interest in, engineering and technology careers; and,

WHEREAS, EWeek is a formal coalition of more than 70 engineering, education and cultural societies, with more than 50 corporations and government agencies dedicated to raising public awareness of engineers' positive contributions to quality of life; and,

WHEREAS, EWeek promotes recognition among parents, teachers and students of the importance of a technical education and a high level of math, science and technology literacy, and motivates youth to pursue engineering careers in order to provide a diverse and vigorous engineering workforce; and,

WHEREAS, ASHRAE sets standards for the heating, ventilation, air conditioning and refrigeration industry, in addition to certifying and educating people in the industry all across the country; and

WHEREAS, the SWFL Chapter of ASHRAE would like to acknowledge engineers across Southwest Florida in honor of National Engineers Week, observed February 17-23, 2019.
Expand your knowledge and understanding of the fundamentals and technical aspects to design, maintain and operate new and existing HVAC systems.

ASHRAE currently offers 5 training dates throughout the world:

- February 18-22, 2019 – Las Vegas, NV
- March 11-15, 2019 – Hartford, CT
- April 15-19, 2019 – Atlanta, GA
- May 20-24, 2019 – Toronto, Canada
- June 10-14, 2019 – Vancouver, BC

For more information and to Register visit ashrae.org/hvactraining.
2018-2019

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