

NOVEMBER
2013 EDITION



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"THE GEE CHEE"

CHARTERED APRIL 14, 1971

THE OFFICIAL PUBLICATION OF THE REGION 4 CHARLESTON CHAPTER 113
AMERICAN SOCIETY OF HEATING, REFRIGERATING, AND AIR CONDITIONING ENGINEERS, INC.



MEETING SCHEDULE

TUESDAY NOVEMBER 12, 2013

LOCATION: HARBOR BREEZE @
PATRIOTS POINT- MT. PLEASANT

B.O.G MEETING: 5:00-5:30PM

"HAPPY HALF HOUR": 5:30-6:00PM

TECH PROGRAM: 7:00-8:00PM

8:01.....SEE YOU NEXT MONTH!

COST: \$25 / PERSON + \$5 OPEN BAR

THIS MONTH'S PRESENTATION BY:

**R. CHRISTOPHER MATHIS
MC2- MATHIS CONSULTING COMPANY**

TOPIC:

**ENERGY EFFICIENCY IN COMMERCIAL
BUILDINGS**

This Month's Articles:

- President's Message
- Chapter Sponsors – Thank You
- Monthly Topic and Speaker
- CTCC
- Member News
- Sponsorships and Investors
- The Wall of Honor/Research Promotion
- ASHRAE Chapter Meetings

President's Message

ASHRAE Members and Guests,

NOVEMBER PRESIDENT'S LETTER

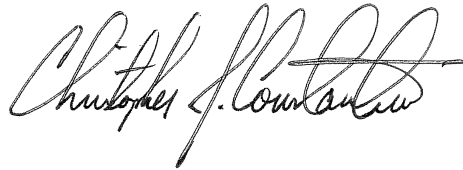
Please join us this month for an outstanding presentation by Mr. Chris Mathis, ASHRAE Distinguished Lecturer, on the topic of "Energy Efficiency in Commercial Buildings". You can read more about him in Austin Jones' column later in this edition of "The Gee Chee".

Last month we participated in the Networking & Social Gathering of the Charleston Area Building & Design Associations. This was again a great event (2nd year) and proved to be a wonderful opportunity to meet and greet our fellow contractors, architects, engineers, and suppliers. Engaging our colleagues like this takes us out of the daily grind and affords an opportunity to get to know one another on a more social basis.

Our Fall Research Golf Tournament held in October was a great success thanks to the continued efforts of Steve Marek, our Research Promotion Chairman. He tells us more later in this newsletter. Fun was had by all on a picture perfect day at the Berkeley Country Club.

Finally, please welcome Kim Pierson, our new Chapter Society Technical Committees chairperson. Kim's focus will be to educate us on opportunities available to all members to serve in various capacities on ASHRAE Technical Committees, Task Groups, and Technical Resource Groups.

I look forward to seeing you on Tuesday November 12th.



Chris Constantine, PE
President ASHRAE Charleston Chapter

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Thank You for Your Sponsorship

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Monthly Topic and Speaker

Topic: “Energy Efficiency in Commercial Buildings

R. Christopher “Chris” Mathis has spent the past 30 years focusing on how buildings and building products perform – from energy efficiency to code compliance to sustainability and long-term performance durability.

Chris is an active participant in Standards and Code development at ASHRAE, NFRC, ASTM and the ICC. He was a founding member and served for four years as the first Director of the National Fenestration Rating Council, the non-profit organization that developed the nation’s energy performance rating and labeling system for windows, doors and skylights.

Chris has been a member and active participant in ASTM committee E06 on Performance of Buildings since 1984. During his tenure at ASTM he has worked on numerous task groups and subcommittees developing a range of standards and test methods addressing window performance, window installation, thermal testing of windows, wall system performance and whole building performance. He currently chairs E06.51.11 addressing window installation standards. He is also a member of committee C16 on Insulation and E60 on Sustainability. Chris currently chairs the Built Environment Advisory Committee at ASTM.

Chris is a 30-year member of the American Society of Heating, Refrigerating and Air Conditioning Engineers (ASHRAE). In ASHRAE he has worked on window thermal test standards, national model codes for commercial buildings (ASHRAE 90.1), model codes for residential buildings (ASHRAE 90.2) and is the energy consultant to Standard 189.1 – ASHRAE’s model code for sustainable commercial buildings. He is also the energy consultant to the Chapter Technology Transfer Committee. Chris has been recognized as an ASHRAE Distinguished Lecturer, conducting seminars on a variety of building science, energy efficiency and sustainability topics across the US and worldwide.

Chris has published numerous technical papers at ASHRAE and presented his work at a variety of national and international conferences. His publications include technical papers on: advanced test methods for insulation materials and wall systems; daylighting design and assessment techniques; off-peak cooling techniques for commercial office buildings; new residential and commercial energy codes; and metrics for environmentally preferable products. He has written numerous engineer-, architect-, builder- and consumer-targeted articles and guides on various building and product performance issues. He is the author of *Insulating Guide* - a book for home builders providing insulating best practices for many of the most common home building details. He is the co-author of *Is Your Home Protected from Water Damage? A Homeowner’s Guide to Water Damage Prevention* published by the Insurance Institute for Business and Home Safety.

Chris has been involved in state and national code development since 1988. He was selected four times to serve on the International Energy Conservation Code Committee of the ICC, working to refine and improve the IECC – our national model energy code. He was also selected to be a member of ICC’s Sustainable Building Technology Committee helping to draft a national model code for sustainable buildings. He served on the ICC’s first Code Development Committee for the International Green Construction Code.

CTCC – Gene Brown

I would like to encourage everyone to submit entries for technical awards and for the Milton Garland refrigeration award. This will bring recognition to you and your company and will help our chapter. Anyone needing information on this can contact me at gene_brown_jr@yahoo.com.

In October there was a social meeting with AIA, CSI, ASCE and Charleston Mechanical Contractors Association. There was no speaker at this meeting. Everyone had an opportunity to meet with others in the mechanical and construction fields. The meeting was an outstanding success.

At the September meeting there was an excellent panel discussion with six code officials as follows:

Mr. Van Hewett, Plan Reviewer, City of Charleston

Mr. Jeff Ball Ball, Mt. Pleasant Commercial Plans Examiner

Mr. Darbis Brigman, North Charleston Chief Building Official (843) 740-2560

Mr. Carl Simmons, Charleston County Building Services

Mr. Elie Macaron SCDHEC

Mr. David Blackwell, Chief Engineer, Office of State Fire Marshal, S.C. Division of Fire and Life Safety

Member News – Brian Keiser

The membership committee is not only responsible for the promotion of our local chapter but also for broadening the type of membership to include all individuals concerned with the HVAC industry. Whether you are involved in engineering, contracting, energy management, sales, operations, code enforcement, or education, or if you have an interest in HVAC in general, ASHRAE membership can provide you a wide variety of opportunities to help you pursue and keep informed of developments affecting the HVAC industry.

Member benefits include but are not limited to:

- Receipt of the ASHRAE Journal and ASHRAE Insights providing information regarding current case studies and industry developments (Monthly)
- Receipt of the current ASHRAE Handbook update (Annual)
- Networking with other persons with similar interests during monthly chapter meetings
- Membership discounts on ASHRAE publications
- Attendance of various local, regional and national ASHRAE conferences and trade-shows
- Voluntary membership to a variety of ASHRAE technical committees
- Access to 'Members Only' portion of Society web page

For member application or for membership upgrade contact Brian Keiser. Alternatively, you can download a membership application or update your personal information by logging on to the ASHRAE Society web site at www.ashrae.org.

Congratulations to the following individuals who recently became ASHRAE members. Welcome to the Charleston Chapter:

Peter Solis, Will Pearsall, Don Curry Jr., Daniel Folk, Mariah Schwartz, Elizabeth Dalton, Megan Rooney

Student Activities – Carl McGartlin

Rob Turner, past Charleston Section ACE Chairman, Eric Crawford and Carl McGartlin were all mentors in the local ACE program this past year. Rob Turner has been instrumental in helping the Chasn Section grow and expand into multiple schools over the past four years. At our November meeting Rob will provide an overview of his involvement in the ACE program and how he sees it affecting the lives of high school students.

ACE Mentors of Greater Charleston is part of a national mentoring program which mentors high school students in (A)rchitecture, (C)onstruction, and (E)ngineering as it relates to building construction. It started at Burke High School three years ago, and has expanded into other schools. After three years, we have concentrated efforts on programs at Stall High in North Charleston, and St. Johns High in Johns Island. Stall High had an incredibly successful year last year. The purpose of ACE is to introduce students to the ACE disciplines where they may not have had access to experience or guidance in those fields. High School students may never be advised exactly what an Architect or Structural Engineer does, how a building is built, or how a Mechanical Engineer designs air conditioning for a building. ACE's goal is to put higher numbers of diverse students - who are eager to learn - into college programs in the ACE disciplines by helping them answer these type questions at an earlier age. Students are enrolled in a semester long program which covers the entire construction process from concept to final construction. The students usually develop a "design and build" project towards the end of the program. At the end of the program there is a banquet where the students present their projects to the parents and community members. At this banquet, ACE gives scholarships to (1) student at each school who achieves the best performance and essay scores. Please check out our local web page for further info and make a personal or company donation if you see fit: <http://www.acementor.org/1149>

Sponsorships and Investors

2013-2014 ASHRAE Research Investors

CORPORATE/HONOR ROLL INVESTORS 2013-2014:

Platinum Level Donors: (\$800+)

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Triad Mechanical Contractors

James M. Pleasants

Thermal Resource Sales

Trane

SC Public Service Authority - Santee Cooper

Silver Level Donors: (\$300)

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Bronze Level Donors: (\$150)

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The Wall of Honor (2013-2014)

Individual Donations of \$100.00 or More

Marcus Googer, Dennis Knight, Ron Runyon
Del Laquiere, Randy Jones, Steve Marek
David Tomayko, Dick Trent, Eric Crawford
Brian Keiser, Clarence Ham, Chris Constantine
Ronnie Hackett, Al Hitchcock, Emad Afifi
Austin Jones, Philip Runyon

Much of ASHRAE Research funding comes in through individual donations,
so, please give.

CAN WE PUT YOUR NAME HERE?

Research Promotion – Steve Marek

Number One, thanks for all your donations from last year, PLEASE come out to this month's meeting to receive your recognition.

The Golf outing is was outstanding once again, we all had a great time, nine teams teed it up, and great turn out, thank you everyone for the help.

Check out the Sponsor lists and support the people who donate to ASHRAE Research and keep the Charleston Chapter at the forefront of Research. Check out our individual Honor and Corporate Roll Donors, some give every year and are included automatically, and thanks to all the Officer's and Myself we have already completed Full Circle, so send in your \$100 to match ours.

Visit ASHRAERP.com for all the info on the campaign and see where your dollars go, it is a great web site provided by the Atlanta Staff.

Please make an individual or corporate honor roll donation or more if you can and send us to a new high.

Steve Marek
RP Chairman

" The Gee Chee "

Grassroots Government Activities Committee (GGAC) Corner

As an addition to the Newsletter, the chapter will start posting current and relevant information to ASHRAE members regarding government activities in our local Charleston community and within the state. This will start with next month's publication. This month, the article is to inform our members what this committee is and what the duties of the committee are.

This is a key period for ASHRAE, as we delve more fully into engaging with state, provincial, and local officials. It is vital that we build a network of active engineer-advocates worldwide to impress upon decision-makers how their choices will impact society – and HVAC&R professionals specifically – in the days, months, and years to come.

This is a new and important committee for ASHRAE that will coordinate the dissemination of grassroots level governmental activities and related information to members. By understanding what is going on locally, the GGAC can provide the high quality and readily available tools to train and enable chapter members to effect positive interactions with government entities, especially in the use of ASHRAE documents and the advancement of the ASHRAE public policy agenda. This will allow the chapter to position the government adoption of ASHRAE developed and endorsed standards, guidelines and positions.

The GGAC is a resource to help inform our members and local government officials about ASHRAE. ASHRAE has over 53,000 members from over 132 nations. 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. There is no better organization to educate government about "Shaping Tomorrow's Built Environment Today"

The GGAC is currently looking for members to join our committee and assist in informing our members about government activities. Please feel free to contact me.

Eric Crawford

ecrawford@pepcoenergy.com

GGAC Chair

ASHRAE CHAPTER MEETINGS

October Meeting

Building & Design Social,
Student Activities Night

November Meeting

Research Promotion Night

December Meeting

Annual Oyster Roast

January Meeting

CTTC Night

February Meeting

Membership Night

March Meeting

GGAC Night

April Meeting

History Night

May Meeting

Student Activities Night

June Meeting

Annual Summer Social
Induction of Officers

ATTENDANCE

Mariah Schwartz is putting together a phone tree to help promote attendance at Chapter meetings. She may be contacting you in the near future to participate. If anyone would like to volunteer to be a part of the phone tree, please let Mariah know at your earliest convenience. mschwartz@wholebuildingsystems.com

PUBLICATIONS

Tim and Megan are working on the new website layout design. They are planning to update the design and incorporate a slideshow of pictures of Charleston on the homepage. Other updates will include providing links to become a member, a resource tab that will provide a place for ASHRAE members to post job announcements, and much more. Date of release is to be determined. Contact Tim and Megan with any suggestions or questions.

Tim@trinityengrs.com; mrooney@dwginc.com

GET INVOLVED

CONTACT ONE OF OUR COMMITTEE CHAIRS TO SEE HOW YOU CAN MAKE A DIFFERENCE

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