



September 2013

2013 - 2014 ASHRAE  
Memphis Board of  
Governors

**President**

Ryan Hertter

**President Elect**

Aubrey Tucker

**Technology Transfer / Programs**

Jack Griffith

**Secretary**

Tom Byrd

**Treasurer**

Greg Brown

**Research & Promotion**

Jimmy Fleck

**Membership Promotion**

Nick Maynard

**Student Activities**

Forrest Exley

**Refrigeration**

Ryan Stephens

**Honors & Awards**

Jeremy Harris

**Historian**

Jerry Gatlin

**Memorials**

Ken Jack

**Newsletter Editor**

Brian Schaffler

**Chapter Website**

Kevin Crosby

**YEA Chair**

Andrew Oppenheimer

**At Large Member**

Evans Jack

Jonathan Lancaster

**Past Presidents**

Mike Bilderbeck

Russ Fletcher

David George

Joey Matlock

**DRC**

Jeff Gatlin

# Memphis Chapter Newsletter



Monthly Meeting  
**Tuesday September 10, 2013**  
Meeting Location:  
**Holiday Inn University of Memphis**

This month's Presentation by  
Chirag Patel – Engineering Manager at HealthWay Products Inc.

## Indoor Air - the way it should be

The presentation will involve discussion on the following topics:

- ◆ Indoor Air Quality and the pollutants affecting indoor air in various commercial and residential applications
- ◆ Overview of the past technologies in air filtration to improve Indoor Air Quality and their pros/cons
- ◆ Discussion on enhancing the effectiveness of media filtration by using it in conjunction with high energy field to capture down to virus size contaminants and significantly improving the indoor air quality
- ◆ Going beyond HEPA/ULPA standards and also achieving significant energy savings
- ◆ Effective ways of achieving better air quality indoors

Chirag Patel has significant experience in the field of Indoor Air Quality, Air Filtration, HVAC System Design and Fluid flow modeling through his work at HealthWay and his research projects with Syracuse University and Syracuse Center of Excellence. He has worked on numerous NASA funded projects on Turbulence Modeling in conjunction with Syracuse University. He is currently involved in further research in the field of Green Building design and Indoor Environmental Quality in collaboration with University of Buffalo and Syracuse University.

Chirag Patel holds a Masters degree in Mechanical and Aerospace Engineering with focus on Fluid Dynamics, HVAC System Design and Indoor Environmental Quality from Syracuse University and also a Bachelors degree in Mechanical Engineering



September 2013

# Memphis Chapter Newsletter

## Presidents Corner

---

Page 2

I appreciate the opportunity to serve as the President of the chapter once again. As we all get back to our routines, I urge you to make it a priority this year to attend as many meetings as possible. Many of the programs are already set, but there are a couple of openings left. If you have suggestions or programs in mind, please contact Jack Griffith. I look forward to an exciting year with great speaker and topics.

We had a great CRC this year in Louisville, KY. Most of our chapter chairperson's made the trip. In fact, our chapter won the award for the most people attending with the least environmental impact. There are still committee positions, volunteer openings, and sponsorship opportunities available at the local chapter level. Our own Jeff Gatlin is the Region VII director and regional chair, so if you are interested in getting involved on the regional level, please let him know.

The annual ASHRAE golf tournament date has been established. The tournament is less than a month away. I think everyone had a great experience last year, and it was a big success. Hopefully, this year will be even better. Brian Schaffler is heading up the effort. Please contact him if you are willing to sponsor, volunteer, or play. We need all the great sponsors that normally participate to consider doing it again and possibly going bigger. This is a wonderful opportunity to get out of the office and enjoy an afternoon with colleagues, customers, and people you don't often get a chance to socialize with. Please come out and suppose ASHRAE research. A large portion of the money collected will go to ASHRAE research. It is completely tax deductible.

Thanks,

Ryan J. Hertter, PE



September 2013

# Memphis Chapter Newsletter

## Upcoming Events

---

Page 3

## 23rd Annual ASHRAE Memphis Benefit Golf Tournament

Monday, September 30th, 2013

Chickasaw Country Club

4-MAN SCRAMBLE COMPETITION

Lunch beginning at 11:30 AM

1:00 PM – SHOTGUN START

Golf & Lunch: \$125.00 per golfer or, buy a team and sponsor a hole for \$650 (\$100 savings)

See attached flyer for details

# ASHRAE Learning Institute

## 2013 Fall Online Course Series

### 2 WAYS TO REGISTER

Take 3 or more courses and save 15% off registration!

**Internet:** [www.ashrae.org/onlinecourses](http://www.ashrae.org/onlinecourses)

**Phone:** Call toll-free at 1-800-527-4723 (US and Canada) or 404-636-8400 (worldwide)

**Note:** You may register up to 24 hours prior to an online course. Courses are in US Eastern Time.

**Complying with Standard 90.1-2010: HVAC/Mechanical**  
Mon, September 30, 2013 – 1:00 pm to 4:00 pm EDT

**Energy Management in New & Existing Buildings**  
Wed, October 2, 2013 – 1:00 pm to 4:00 pm EDT

**High-Performance Building Design: Applications & Future Trends**  
Wed, October 9, 2013 – 1:00 pm to 4:00 pm EDT

**Commissioning for High-Performance Buildings**  
Wed, October 16, 2013 – 1:00 pm to 4:00 pm EDT

**Fundamentals Requirements of Standard 62.1-2010**  
Mon, October 21, 2013 – 1:00 pm to 4:00 pm EDT

**Air-to-Air Energy Recovery Fundamentals**  
Wed, October 23, 2013 – 1:00 pm to 4:00 pm EDT

**Data Center Energy Efficiency**  
Mon, October 28, 2013 – 1:00 pm to 4:00 pm EDT

**Air-to-Air Energy Recovery Applications: Best Practices**  
Wed, October 30, 2013 – 1:00 pm to 4:00 pm EDT

**IAQ Best Practices for Design, Construction & Commissioning**  
Wed, November 13, 2013 – 1:00 pm to 4:00 pm EST

**The following courses are comprised of two parts. Registrants must attend both parts in order to receive CEU/PDH credits.**

**Energy Modeling Best Practices & Applications**  
Part 1 - Mon, September 16, 2013 – 1:00 pm to 4:00 pm EDT  
Part 2 - Mon, September 23, 2013 – 1:00 pm to 4:00 pm EDT



**Commercial Building Energy Audits**  
Part 1 - Mon, November 4, 2013 – 1:00 pm to 4:00 pm EST  
Part 2 - Wed, November 6, 2013 – 1:00 pm to 4:00 pm EST

## HVAC Design Training

2 Courses, 5 Days of Intense Instruction

Oct 28 – Nov 1, 2013

### HVAC Design: Level I - Essentials

ASHRAE's *HVAC Design: Level I - Essentials* provides intensive, practical training for HVAC designers and others involved in delivery of HVAC services. Gain practical skills and knowledge in designing, installing and maintaining HVAC systems that can be put to immediate use. The training provides real-world examples of HVAC systems, including calculations of heating and cooling loads, ventilation and diffuser selection using the newly renovated ASHRAE Headquarters building as a living lab.

### HVAC Design: Level II - Applications

ASHRAE's *HVAC Design: Level II – Applications* provides advanced instruction on HVAC system design for experienced HVAC designers and those who complete the *HVAC Design: Level I – Essentials* training. In two days, gain an in-depth look into *Standards 55, 62.1, 90.1, and 189.1* and the *Advanced Energy Design Guides*. Training will focus on a range of topics including: HVAC equipment and systems; energy modeling; designing mechanical spaces; designing a chiller plant; and BAS controls.

Visit [www.ashrae.org/hvacdesign](http://www.ashrae.org/hvacdesign) to register

# ASHRAE Certification Programs

ASHRAE has developed a 30-question Online Practice Exam for the Commissioning Process Management Professional (CPMP) certification. This Online Practice exam, available for \$39.00, is written to the same specifications as the actual exam and:

- familiarizes applicants with computer-based testing.
- offers a sense of how to time yourself during the actual exam.
- is taken in the privacy of your home, office, or on the road.
- has no application process and can be taken any time during the 30 days after purchase.
- provides a score report and feedback report to indicate weak areas.

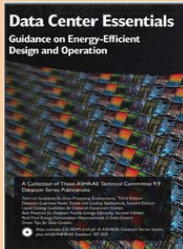
Online Practice Exams are planned for all six ASHRAE certifications.

To access the CPMP practice exam, go to [www.ashrae.org/CPMP](http://www.ashrae.org/CPMP).

## Hot Products from ASHRAE

A leader in HVAC&R technology, ASHRAE publications cover topics that impact every facet of the environment, both indoors and out.

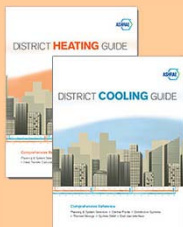
### Now in One Place: Vital Data Center Guidance



*Data Center Essentials: Guidance on Energy-Efficient Design and Operation* assembles into one publication all the information needed to design, operate, and maintain energy-efficient data centers. This essential volume presents fundamental guidance from ASHRAE Technical Committee (TC) 9.9, the industry-recognized source for mission critical facilities.

\$289 (\$189 ASHRAE Member) / 1,060 pages / 2013

### Comprehensive Coverage of All Aspects of District System Design



The *District Heating Guide* and *District Cooling Guide*, now bundled for one low price, fulfill a worldwide need for modern and complete design guidance for district systems. Expanded from the District Heating and Cooling chapter in the *2012 ASHRAE Handbook*, these guides provide in-depth coverage, additional topics, and case studies. The *District Heating and Cooling Guides* draw on the expertise of an extremely diverse international team with current involvement in the industry and hundreds of years of combined experience.

\$179 (\$152 ASHRAE Member) / Softcover Bundle / 2013

Visit [www.ashrae.org/bookstore](http://www.ashrae.org/bookstore) to learn more about these and other outstanding ASHRAE publications!



**23<sup>rd</sup> Annual**  
**ASHRAE Memphis**  
**Benefit Golf Tournament**  
**September 30<sup>th</sup>, 2013**  
**at Chickasaw Country Club**

Benefiting Your Memphis ASHRAE chapter with a portion donated to ASHRAE Research

Sponsored by:



AND COOLING & HEATING

**Monday, September 30<sup>th</sup>, 2013**  
**Chickasaw Country Club**  
**4-MAN SCRAMBLE COMPETITION**

- 1:00 PM – SHOTGUN START
- Lunch beginning at 11:30 AM
- Golf & Lunch: \$125.00 per golfer or, buy a team and sponsor a hole for \$650 (\$100 savings)

**PRIZES FOR:**

**1<sup>st</sup> and 2<sup>nd</sup> Place – (2) Flights**  
**CLOSEST TO THE PIN (4 Holes)**  
**LONGEST DRIVE**

Participants	Circle One	
	Member / Non Member	\$
	Member / Non Member	\$
	Member / Non Member	\$
	Member / Non Member	\$

Total \$ \_\_\_\_\_

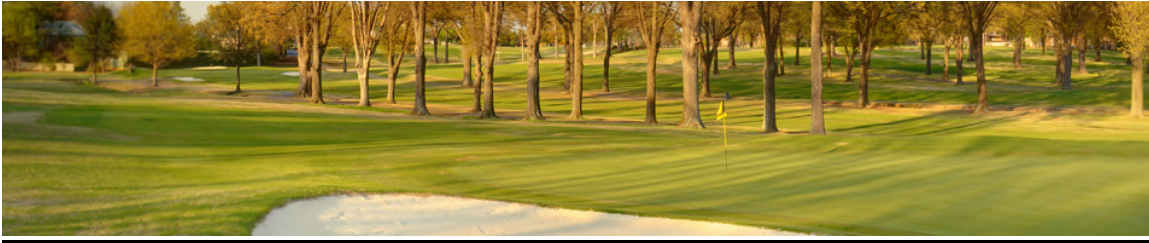
Make checks payable to ASHRAE Memphis Chapter. Please return to:

Brian Schaffler  
 Gorham/Schaffler, Inc.  
 3095 Stonebrook Circle  
 Memphis, TN 38116  
 Phone: 901-345-6100 Fax: 901-396-1781  
 Brian.schaffler@gorhamschaffler.com

**23<sup>rd</sup> Annual**  
**ASHRAE Memphis**  
**Benefit Golf Tournament**

September 30<sup>th</sup>, 2013  
at Chickasaw Country Club

Benefiting **Your** Memphis ASHRAE chapter with a  
portion donated to ASHRAE Research



**Sponsorship Opportunities**

Title Sponsor - \$2,500  
Lunch Sponsor - \$1,000  
Drink Cart Sponsor - \$1,000  
Hole Sponsorship - \$250  
Longest/Most Accurate Drive - \$250  
Closest to the pin - \$250 each

**Company Name:**

Mitsubishi and Transformative Air Technologies	<b>Title Sponsor</b>	<b>\$2,500</b>	
Gorham/Schaffler Inc.	<b>Lunch Sponsor</b>	<b>\$1,000</b>	
	<b>Drink Cart Sponsor</b>	<b>\$1,000</b>	
	<b>Hole Sponsor</b>	<b>\$250</b>	
	<b>Longest /Most Accurate Drive</b>	<b>\$250</b>	
	<b>Closest to the pin</b>	<b>\$250</b>	

**Total** \_\_\_\_\_

Make checks payable to ASHRAE Memphis Chapter. Please return to:

Brian Schaffler  
Gorham/Schaffler, Inc.  
3095 Stonebrook Circle  
Memphis, TN 38116  
Phone: 901-345-6100 Fax: 901-396-1781  
brian.schaffler@gorhamschaffler.com