

Tuesday, January 12, 2010,

**January 12, 2010 Chapter Meeting Notice**

\*\*\* You MUST RSVP if you plan to attend the meeting. Please email Charles Fischer at [charles.h.fischer@jci.com](mailto:charles.h.fischer@jci.com). Also, you can prepay and RSVP on line at [www.ashraeatlanta.org/meeting.html](http://www.ashraeatlanta.org/meeting.html). This helps the chapter accurately order food from the catering company.\*\*\*

**Lunch Meeting:** 11:30 AM – 1:00 PM  
**Topic:** ASHRAE Standard 90.1-2001  
**Speaker:** Stephen V. Skalko, PE  
 Manager, Regiona Codes and Standards  
 Portland Cement Association

**Cost:** \$10.00 Members, \$20.00 Non-Members

**Emphasis:** History, Refrigeration

*Inside This Issue*

President's Message	Page 3
Speaker's Page	Page 4
2009/2010 Atlanta ASHRAE Program Calendar	Page 6
2009/2010 ASHRAE Atlanta Education Seminar Calendar	Page 7
ASHRAE NEWS	Page 13
Resumes	Page 15
History Corner	Page 17

\*\*Please visit our new website for up-to-date chapter and meeting information at [www.ashraeatlanta.org](http://www.ashraeatlanta.org)\*\*

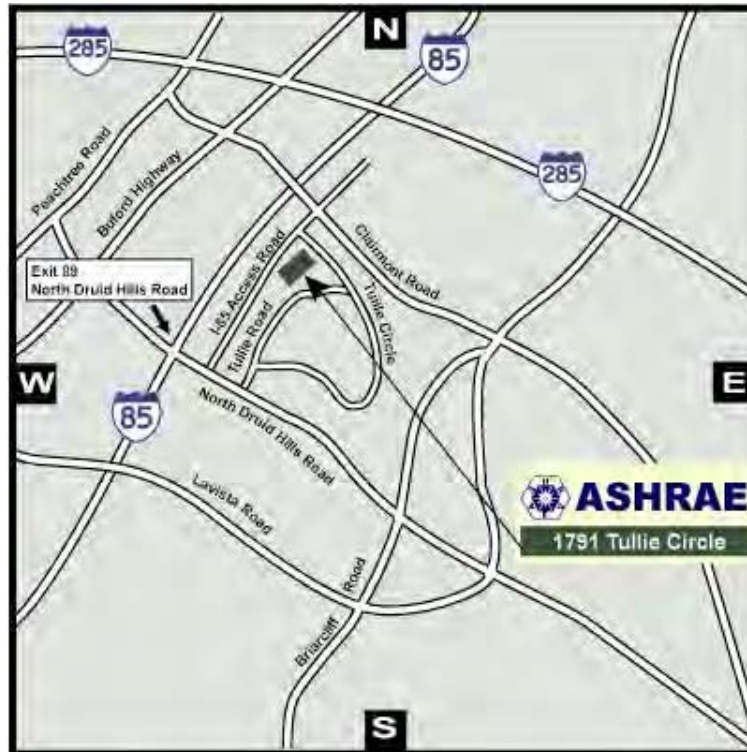
# Directions to ASHRAE



**ASHRAE**  
Advancing HVAC&R to serve humanity  
and promote a sustainable world

## Directions to ASHRAE Headquarters

ASHRAE Headquarters is located at 1791 Tullie Circle and the building fronts the northbound access road next to Interstate 85 just north of North Druid Hills Road (Exit 89). We are 18 miles north of Hartsfield-Jackson International Airport, near Emory University and the Centers for Disease Control.



### From I-85 northbound:

- Take Exit 89 (North Druid Hills Road).
- Turn right at the light onto North Druid Hills Road.
- At the next light, turn left onto Tullie Road. Continue on Tullie Road until you reach a stop sign.
- Turn left onto Tullie Circle NE.
- The main entrance to ASHRAE Headquarters is on the right.

### From I-85 southbound:

- Take Exit 89 (North Druid Hills Road).
- Turn left at the light onto North Druid Hills Road.
- Go straight through the next light at the access road to I-85 northbound.
- At the second light, turn left onto Tullie Road.
- Continue on Tullie Road until you reach a stop sign.
- Turn left onto Tullie Circle NE.
- The main entrance to ASHRAE Headquarters is on the right.

Click here to view on the Web:

<http://www.ashrae.org/contactus/page/1451>

## Atlanta Chapter ASHRAE, 2009-2010

### Chapter Officers

#### **President**

John McFarland 678-990-4316

#### **Vice President**

Michael Dudley 678-990-4325

#### **Treasurer**

Charlie Fischer 770-870-2620

#### **Secretary**

Charles Miltiades 770-421-3280

### Past President

Mike Eckert 770-870-3936

### Board of Governors

Caroline Callaway 770-663-4339

Danny Cobucci 770-495-9888

Rick Dustin 404-624-8699

Glenn Northrup 678-736-5102

Pat McCabe 770-435-2334

Ron Petrey 770-277-0271

Dominic Radosta 404-444-0570

Samir Sheth 404-897-9927

### Committee Chairs

#### **Attendance / Reception**

Danny Cobucci 770-495-9888

#### **Att./Reception V. Chair.**

Darrell Sandlin 770-495-8814

#### **CTT**

Sheldon Jeter 404-894-3211

#### **December Meeting**

Caroline Callaway 770-663-4339

#### **Historian**

Dominic Radosta 678-507-1091

#### **Honors & Awards**

Harris Sheinman 404-946-2116

#### **Macon Section**

Caroline Callaway 770-663-4339

#### **May Outing**

#### **Membership Promotion**

Samir Sheth 404-897-9927

#### **Newsletter Editor**

Sheldon Jeter 404-894-3211

#### **PAOE Czar**

Mike Eckert 770-870-3936

#### **Product Show**

Irvin Sierra 404-605-8255

#### **Programs**

Priscilla Harmon 404-521-6362

#### **Refrigeration**

Owen Gwin 770-489-0716 X 103

#### **Region IV DRC**

Ira Poston 336-222-5570

#### **Region IV RVC History**

Pam Immekus 770-419-7533

#### **Region IV RVC Student Activities**

Peggy Fritz 678-721-9326

#### **Research Promotion**

Brian Justice 678-641-6000

#### **Research Vice Chair.**

Glenn Northrup 678-736-5102

#### **Student Activities**

Dr. John Mench 770-528-7289

#### **GT Student Branch Advisor**

Dr. Shelton Jeter 404-894-3211

#### **UGA Student Branch Advisor**

Dr. Tom Lawrence 706-542-4322

#### **Ways & Means**

Patrick McCabe 678-990-4298

#### **YEA Chair**

Pamela Androff 404-730-8597

American Society of Heating, Refrigerating  
and Air Conditioning Engineers, Inc.

Published by the Atlanta Chapter, Atlanta, Georgia.  
Statements made in this publication are not expressions  
of the Society nor of the Chapter and may not be  
reproduced without special permission from the Chapter.

## PRESIDENT'S MESSAGE

Happy New Year Everyone!

What a great way to end the year! On December 3rd Atlanta ASHRAE, USGBC-GA, AIA Atlanta, ASID, and IIDA all joined forces for a celebration at Mason Murer Arts Gallery. Over 820 people spent the night dancing to Kingsized with Two Dames Aflame Burlesque Troupe.

Over 200 toys were collected for Toys for Tots and a donation of \$2,500 from the event was made to the Red Cross of Atlanta to help support the re-building efforts of the North Georgia flood victims.

Looking forward to 2010, we'll begin the year with our next meeting on Tuesday, January 12<sup>th</sup>. We'll be meeting for lunch beginning at 11:30 a.m. at ASHRAE Headquarters (1791 Tullie Circle, N.E., Atlanta, GA 30329). Steve Skalko, Vice-Chair of SSPC 90.1 will discuss the latest regarding ASHRAE Standard 90.1-2007. This is the standard now referenced in LEEDv3 and is fundamental in guiding our built-environment to greater energy efficiency and energy independence.

Please RSVP for this very important and timely topic via the Atlanta ASHRAE website at <http://www.ashraeatlanta.org/meetings.html>. It is important that we know you'll be coming so we can be sure to have a meal for you. The cost for this lunch meeting is \$10 for chapter members, \$20 for non-chapter members, and current students are always free.

Other important dates in 2010 to put on your calendar include:  
02/09/2010 – Lunch Meeting and Educational Session on Energy Modeling

03/31/2010 – Product Show with education on Energy Star PE Certification and ASHRAE Building Energy Quotient Program

04/13/2010 – Lunch Meeting and Educational Session on BIM

Make sure you take a look at the other exciting events coming up with our YEA Group elsewhere in this T' Stat.

I look forward to seeing you at our next chapter event!

John McFarland  
Atlanta Chapter President 2009/2010

Chapter many not act for the Society



## **\*\*\*January 12, 2010 Atlanta Chapter Program\*\*\***

**Lunch Meeting Topic:** ASHRAE Standard 90.1-2007  
**Location:** ASHRAE Headquarters  
**Speaker:** Stephen V. Skalko, P.E.  
Manager, Regional Codes and Standards  
Portland Cement Association



**Bio:** Steve graduated from the Georgia Institute of Technology with a Bachelor of Civil Engineering degree and from Georgia College and State University with a Master of Science in Administration degree. Steve is a registered professional engineer in Georgia.

He has been involved in codes and standards for almost thirty years first as a Building Official and Fire Marshal for a local government jurisdiction and now as a representative of the Portland Cement Association. He participates in codes and standards development through the International Code Council (ICC), the National Fire Protection Association (NFPA), the American Society of Heating Refrigerating and Air-Conditioning Engineers (ASHRAE) and the American Society of Civil Engineers and American Society for Testing and Materials (ASTM).

As a former code official he served on the Southern Building Code Congress, International (SBCCI) Standard Building Code Development Committee and also represented SBCCI on the CABO *One and Two Family Dwelling Code* (OTFDC) and the *Model Energy Code* (MEC) Development Committees. He has also served on the *International Energy Conservation Code* (IECC) Development Committee.

His involvement in ASHRAE includes serving on ASHRAE Standing Standard Project Committees (SSPC) responsible for development of ASHRAE 90.1 *Energy Standard for Buildings Except Low-Rise Residential* and ASHRAE 90.2 *Energy Efficient Design of Low-Rise Residential Building*. He participates not only as a committee member but presently serves as Vice Chair of the SSPC 90.1 Full Committee. Previously he served as Chair of the Envelope Subcommittees for SSPC 90.1 and SSPC 90.2 and as Chair of the SSPC 90.2 Full Committee. He is a member of the ASHRAE Code Interaction Subcommittee of the Standards Committee and is a past member of the full Standards Committee.

# ASHRAE NEWS

**Below, please check out the list of upcoming ASHRAE Atlanta events:**

- ❖ Principals' Luncheon (Fall and/or Spring)
- ❖ Old Codgers and Past Presidents Luncheon
- ❖ Gladiators Hockey Game
- ❖ Spring Golf Tournament

**Also, a list of related events are listed below:**

- ❖ ASHRAE Winter Meeting – 01/24-27/2010 (Orlando, FL)
- ❖ Greenprints Conference & Tradeshow – 03/01-02/2010 (Sheraton Atlanta Hotel)
- ❖ ASHRAE Summer Meeting – 06/27-30/2010 (Albuquerque, NM)

## \*\*\*ASHRAE Membership Advancement\*\*\*

As the Chair of the ASHRAE Society's Admissions & Advancement Committee, it came to my attention that an awful lot of ASHRAE people are not Members, but are Associates and have been for years, just because they haven't thought or had time to think about upgrading to become a full Member.

All it requires is 12 points. If you have an appropriate Bachelors Degree in engineering or an associated Bachelors, you get 6 points right there. If you are a Registered Engineer, that's another 3 points and to become registered, you have to have at least 4 years experience, which is worth another 4 points. So right there you have 13 points.

If you do not have an accredited degree or are not registered, then all it requires is 12 years experience in the Engineering Field.

I believe that there are lots of people out there who are paying full fees for belonging to ASHRAE, but are still an Associate.

All you need to do is update your Bio at Society and this can be done by going online to <http://www.ashrae.org/membership/page/149> or you can use <http://www.ashrae.org> and enter your e-mail address and your password. After you have done this or if you have already got an updated Bio, then you must e-mail [membership@ashrae.org](mailto:membership@ashrae.org) and state an interest in advancing.

So please consider this as it also helps the Atlanta Chapter and it does not cost you a dime, as your Annual Fee does not change.

Thanks Pat McCabe

## ATLANTA ASHRAE PROGRAMS CALENDAR

	EDUCATIONAL SEMINAR SPEAKER 1:30 to 4:30 pm	EDUCATIONAL SEMINAR TOPIC	Lunch Meeting 11:30 am to 1:00 pm	TOPIC	DINNER SPEAKER Dinner 6:30 to 8:00 pm	DINNER TOPIC
9/15/2009	X	X	Susie Spivey_Tilson tvs Design	LEEDv3- What has changed	X	X
10/13/2009	<u>Hoy Bohanon</u> WorkingBuildings	Multi-zone Ventilation Calculations per Standard 62.1	<u>Hoy Bohanon</u> WorkingBuildings	Standard 62.1 Update	X	X
11/10/2009	X	X	X	X	Barney Burroughs, Building Wellness Consultancy	IAD Design Guide
12/8/2009	<b>Holiday Party @ Mason Murer Fine Arts Museum 7:00 pm - 10:00 pm</b>					
1/12/2010	X	X	TBD	Standard 90.1	X	X
2/9/2010	TBD	Energy Modeling	TBD	Energy Modeling	X	X
03/2010	<b>Product Show at the North Atlanta Trade Center the focus will be New Technologies the time to be determined</b>					
4/13/2010	X	X	TBD	BIM	Dennis Knight Liollo Architecture	X
05/2010	MAY OUTING	MAY OUTING	MAY OUTING	MAY OUTING		MAY OUTING

**DISTINGUISHED LECTURER INDICATED BY UNDERLINE**

**Reservations are NOT required, but seating is limited. Please come early to ensure you have a place  
There will be no tech topic session on the months that have a lunch meeting**

# **EDUCATIONAL SEMINARS 2010**

**At ASHRAE Headquarters  
Prior to Monthly ASHRAE MEETINGS  
(See times below)**

**PDH credits will be issued for the educational seminars**



February 9, 2010 @ ASHRAE HQ 1:30PM – 4:30PM	Energy Modeling Speaker TBD Qualifies for 3 hours PDH Cost: \$10.00
--	--



# Job Listings

## Instructions for help wanted ads and position wanted ads for the Tstat

Ads will be published for FREE for individual members and student members seeking employment or help and for companies and firms that support ASHRAE and are seeking to employ our members and student members. We especially like to publish ads for firms that support ASHRAE RP and for firms that encourage employees to attend Atlanta ASHRAE events!

No ads for professional recruiting companies without specific openings that are disclosed in the ad and definitely no ads for any firm or agency not genuinely seeking employees. You know who you are, and the T-stat editors will be the sole judges of suitability.

Please keep the ad reasonably short, certainly less than 1 page, and legible in design. Avoid any fine print or fonts smaller than 8 points.

The proposed ad needs to be ready to paste into the newsletter, but we must have WORD files rather than finished PDF in case we must edit it for length.

Please definitely avoid including any high resolution graphics or photos. Such graphics can sometimes create unacceptably large PDF files that are impossible for us to distribute. Please send copy to Ms. Neequaye ([regina.neequaye@me.gatech.edu](mailto:regina.neequaye@me.gatech.edu)) and CC to the publications chair (Sheldon Jeter <[sheldon.jeter@me.gatech.edu](mailto:sheldon.jeter@me.gatech.edu)>).

---

## *Employment Wanted*

*Following this page, find resume's of Job Seekers*

*Attached Resume' (s)*

*1. Jauni Novak*

---

# Jauni Novak

**Current Address:**

1400 Chase Place Apt. A2  
Manhattan, KS 66502  
(816) 797-9415

jauni.novak@gmail.com

**Permanent Address:**

23701 E Blue Mills Road  
Independence, MO 64058  
(816) 650-6222

---

**OBJECTIVE**

Full-time employment for mechanical engineering in building design.

**EDUCATION**

Kansas State University, Manhattan, KS

Major: **Architectural Engineering**

Date of graduation: May 2010

Cumulative GPA: **3.5/4.0**

EIT/FE certification upon graduation

*Related Course Work:*

- Written Communication for Engineers
- Advanced Mechanical Systems
- Thermal Systems
- Building Electrical Systems
- Mechanical & Electrical Estimating
- Environmental Controls (Spring 2010)
- Building Energy Analysis (Spring 2010)
- Arch. Eng. Management (Spring 2010)
- Fire Protection/Plumbing
- Integrated Building Design
- Thermodynamics
- Lighting System Design
- Building Communication Systems
- AutoCAD

**EMPLOYMENT**

**Arup, New York, New York**

*Mechanical Engineering Intern*

*Summer 2009*

- Designed general exhaust and slurry wall exhaust systems for five-story, 140,000ft<sup>2</sup> art museum including load calculations, duct layout and sizing, and single-line diagrams.
- Designed perimeter and stairwell heating systems including load calculations, layout, and equipment selection and discussed with architect.
- Prepared and drafted using AutoCAD single-line diagrams for heating hot water, chilled water, and dry cooler system to be included in CD drawing set.
- Prepared a summary/comparison of types of humidification systems in gallery spaces to be used by owner to make decisions on the preferred system.

*Summer 2008*

- Reviewed manufacturer specifications, technical data, and shop drawings as a construction administrator.
- Analyzed energy usage for a central mechanical plant.

**Whiskey Creek, Manhattan, Kansas**

*Server/Bartender, April 2007 – current*

- Responsible for providing guests with an excellent dining experience.
- Utilize effective time management to meet guest needs and provide solutions to complaints.
- Train new employees and act as a member of the serving team.

**ACTIVITIES and HONORS**

- Principle oboist of the Kansas State Symphony Band (2007-2009)
- Member of the Kansas Intercollegiate Honor Band (2008-2009)
- Member of ASHRAE.
- Midwest Exchange Scholarship recipient.

**References available upon request.**

# HISTORY HAPPIN'

## THE STORY OF 'OLD JOE'

by Pat Gupton

The Grove Park Elementary School was planned as an energy efficient building of near fortress construction to replace a building burned down by unruly students. The design was based on the then new "Follow the Sun" design concept developed by the Barber-Colman Company, including computer-based cooling load calculations and the use of electronic controls to allow the cooling and heating plant to accurately track the loads. A Power Company representative who was pressing for the design of all-electric buildings was called to assist in preparing computer-based energy usage and operating cost calculations for use in justifying the more expensive system costs. This is all "old hat" today, but in 1965 it was the cutting edge of building systems design and operation. The calculated savings in energy were substantial and the avoided operating costs from a conventional design were enough to cover the increased costs for the construction of the energy efficient control system.

The building was completed and placed into operation. After the first year of operation, I was startled to receive a call from the head of building operations from the City School system. He broke the news gently: "You will recall the operating cost projections that you and the Power Company folks made for the new Grove Park School. Well, the first years operating costs have just been analyzed and they are 208% of your projections. What are you going to do about that?" Frankly, I was shocked almost beyond words, because I was very proud of the school design and had used the same type of system on several telephone company office building designs since the completion of the school design. Regaining my composure, I replied "I will check this out and call you back." I then called my Power Company representative and told him about the first year's operating results. "Don't worry", he said, "I will get our billing records, examine them, and go out to the school and find out what is wrong. I will call you back".

On the next morning, I received a call from the Power Company man: "You may not believe what I'm about to tell you but it is true. I went to the school office and asked to see the superintendent. I told him what I wanted to find out and he said 'I'm not the one you want to see, it's 'Old Joe' the maintenance man'. He led me down to the equipment room, where I met 'Old Joe'. I told him "I want to talk to you about your air conditioning system'. Now 'Old Joe' had been conducting tours of the facility with interested parties from all over the country to see his new building, so he

started off 'This is the newest system design in the world, called 'Follow the Sun'...". "Joe, I broke in, "I know all about that, I want to talk to you about how you go about operating the system." "Okay", he said and stepped up to the main electronic control panel. A beautiful assortment of control system dials were clearly marked with functions such as '0/0%, overcalls, overrides, and adjust' and with normal positions, some of which had been overwritten with pen marks. Joe twisted a few knobs and said 'With these controls, I can make this system do any thing I want to do'. I was shocked but not really surprised, knowing that the energy consumption for the first year was 208% of the predicted amount.

I was familiar with the system and had found that the maximum energy consumption overshoots were in mild weather. The system had a 240 k W heating coil in the return air stream with 7 stages, each controlled by a contactor energized from a controller sensing temperature in the mixed air stream. The modified settings on the control panel had called for energization of 4 of the 7 stages at all times, summer, winter, spring, and fall! The space temperature was controlled by a return air temperature sensor that energized the refrigerating plant in warm weather or up to the maximum outdoor air volume in cool weather. With this arrangement, the modified control system settings allowed for simultaneous operation of at least 137 k W of electric heat at all times the system was in operation plus the chiller plant when the outdoor temperature was above 55 degrees.

I went back to the control panel, reset the control devices to their originally marked set-points, and told 'Old Joe' to leave the controls alone. With that, I went back and checked the heating coil and found that it was operating under normal control. And that is all I have to tell you." "Thank you very much" I said.

I then called the City School system man and relayed the news to him. "I know that 'Old Joe' is one of the most knowledgeable best building.system operators in the whole school system" he said, "but I will go have a talk with him". And so ended the story of 'Old Joe'.

What I learned about HVAC from that was that the maintenance operators for a complex system must be given formal training by the installing contractors, including the control system contractor.

Edited by Pam Immekus, Historian

*Reprint from December 2006*

## ADDRESS REMOVAL, ADDITION, or CHANGE

This Atlanta Chapter Newsletter goes by email only to all Atlanta Chapter ASHRAE members along with all other ASHRAE members in our area and anyone else who asks.

If you need a change in our email list, please notify Sheldon Jeter as specified below.

If (sadly) you really do wish to be off our newsletter distribution list, please let us know by emailing to <ashrae@mail.gatech.edu>. Please give your email addresses in plain text, so it can be found to remove it. Please help us monitor for your message by putting the word "REMOVE" in the subject line. Thanks.

If you have a friend or colleague who needs to be added to our list or if you want to add an extra address for yourself, let us know by emailing to <ashrae@mail.gatech.edu>. Please give the email address in plain text and please put the word "ADDITION" in the subject line. Thanks.

If your email address needs to be changed, please send to <ashrae@mail.gatech.edu> both the OLD and the NEW email addresses in plain text (so the old one can be found to be changed) and please put the word "CHANGE" in the subject line. You might also want to update your contact info at ASHRAE.org as well.

Thanks, Sheldon

Atlanta Chapter ASHRAE  
John McFarland  
Atlanta ASHRAE President 2009/2010

### CHANGE OF ADDRESS

To change your address you MUST tell ASHRAE Society in writing. Please do not contact the Atlanta Chapter: our mailing list is generated from the Society's database.

CHAPTER MAY NOT ACT FOR THE SOCIETY

