President’s Message

March 2017

March is an exciting month for the ASHRAE Atlanta Chapter! This Thursday, March 9th we are bringing back our bi-annual Product Show at the Cobb Galleria Center. Get ready for an awesome exhibit of the leading manufacturers and innovative new suppliers who will be in Atlanta to showcase their latest products and systems, building automation and controls, software and services, and more.

Join the more than 300 people that have already signed up! Everyone is welcome, so feel free to reach out to anyone you know. Attendance is free and if you register online at the link below, lunch is included: https://ashraeatlanta.wildapricot.org/event-2446842
Don’t miss out on getting your continuing education hours too! We’ll have three technical sessions starting at 10:30 am, 11:45 am and 1 pm.

A reminder that this month we are not having a March meeting due to the Product Show. We will be back with a dinner meeting on April 11th at the Cumberland Mall Maggiano’s. Eli Howard with SMACNA will be providing a seminar on duct construction.

If you can’t wait until April 11th to see your fellow ASHRAE members, join us for a fun refrigeration tour at the Atlanta Gladiator Hockey Arena on March 11th! For more information, click the link below: https://ashraeatlanta.wildapricot.org/event-2455628

We have made an extensive effort this year to partner with other organizations to bring our members even more value. Be on the lookout for more joint events with USGBC-Georgia and AIA Atlanta soon. I am very proud to announce our partnership with the ACE mentor program to help give back to our community. ACE stands for Architecture / Construction / Engineering and is a free after school program where industry professionals interact with high school students to help them identify the best career for their future. We are actively looking for volunteers, so please reach out to us if you are interested! More information is available in this month’s newsletter.
Thank you all for your continued support! Don’t hesitate to share feedback and ideas with us. I look forward to seeing you at the ASHRAE Atlanta Product Show this coming Thursday, March 9th!

Nick Kassanis
Atlanta Chapter President 2016-2017
president@ashraeatlanta.org
www.ashraeatlanta.org
SMACNA HVAC Systems

HVAC Air distribution systems need to be effective and efficient to provide comfort to the occupants and cost-effective from a design/construction/operational perspective. Today’s session will explore sustainable air distribution systems that incorporate proper duct fitting selection, and construction of ductwork per SMACNA Standards and ASHRAE guidance documents.

- HVAC Duct System Types and Ventilation Rate Requirements (ASHRAE Standard 62.1)
- Economics of HVAC Air Distribution Systems
- Duct Design Fundamentals and Duct Sizing
- TAB
- Sound & Vibration
- Duct Construction (SMACNA) and Special Duct Systems

Eli P. Howard, III

Executive Director Technical Services

As SMACNA’s Executive Director Technical Services, Eli Howard has the overall responsibilities of the more than 30+ SMACNA Technical and ANSI Standards related to the HVAC and Sheet Metal Industry.

He is a member of ASHRAE Technical Committees:

- 90.1 Energy Standard for Buildings Except Low-Rise Residential
- SSPC 62.1 Ventilation for Acceptable IAQ
- 7.2 HVAC&R Construction and Design Build Technologies
- SPC 171P Method of Test of Seismic Restraints for HVAC&R Equipment

He has additional responsibilities as SMACNA Liaison to NFPA 90A & 90B, International Code Council (ICC), Canadian Commission on Building and Fire Codes (CCBFC) Standing Committee on HVAC and Plumbing, Construction Specifications Institute (CSI), International Association of Plumbing and Mechanical Officials (IAPMO).

Prior to joining SMACNA he was Manager of Technical Program Development for NEMI providing technical assistance to contractors in energy engineering and IAQ technologies. His experience also includes work with Marriott International as Mechanical Engineer for design/construction of hotels in the United States, Hong Kong and Poland. Mr. Howard holds a degree in Mechanical Engineering from Allegheny College.

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April Dinner Meeting Details

Date: Tuesday, April 11, 2016 @ 5:30 PM

Speaker: Eli Howard

Location: 1601 Cumberland Mall SE, Atlanta, Georgia 30339

Cost: $10.00 Members / $20.00 Non Members

Dinner would be provided at the meeting.

You MUST RSVP if you plan to attend the meeting. Please email secretary@ashraeatlanta.org. Also, you can prepay and RSVP at http://www.ashraeatlanta.org/Events. This helps the chapter accurately order food from the catering company.

Lunch would be provided at the meeting.
MACON SECTION
APRIL 25, 2017
LUNCH/MINGLEDORFFS
Presents:

Gordon P. Sharp

Chairman and Founder
Aircuity, Inc.
55 Chapel Street
Newton, MA 02458
United States
(617) 641-8821
Region: I
Honorarium: None
gsharp@aircuity.com

Mr. Sharp is the chairman of Aircuity, Inc. and has over 25 years of wide-ranging entrepreneurial experience and more than 25 U.S. patents in the fields of energy efficiency and laboratory controls. As founder, former president and CEO of Phoenix Controls, he led the development of this world leader in laboratory airflow controls that was acquired by Honeywell in 1998. The technologies invented by Mr. Sharp at Phoenix Controls are today saving over $1.5 billion annually in energy use. In 2000, Mr. Sharp founded Aircuity, which was spun out of Honeywell and is a smart airside energy efficiency company.
Mr. Sharp is a graduate of MIT with bachelors and masters degrees in electrical engineering. He is Executive Vice President and a member of the board of directors of I2SL (International Institute for Sustainable Laboratories), the nonprofit foundation that operates the Labs21 conference. He is also a member of two important standards on ventilation: the ANSI/AIHA Standard Z9.5 Committee on Laboratory Ventilation and the ASHRAE SSPC 170 Committee on Ventilation of Health Care Facilities. He is also a voting member of ASHRAE technical committee TC9.10: Laboratory Systems and TC9.11: Clean Spaces/Cleanrooms.

Mr. Sharp is a frequent speaker at national and international conferences on the topics of energy efficiency in buildings and indoor environmental quality and has testified before the US Congress on the topics of climate change and energy efficiency.

With one of the following topics

Slashing Lab and Vivarium Building Energy Use by up to 50%

The largest source of a laboratory or a vivarium’s energy consumption and carbon emissions is often the significant use of outside air to provide high Air Change per Hour (ACH) dilution ventilation. In the past a prescriptive approach to ventilation was advocated that made it difficult to save energy in these facilities. However, a demand based control approach to ventilation is now being used successfully in many facilities to cut HVAC energy use significantly. This approach as mentioned in the new 2011 ASHRAE Applications Handbook uses real time sensing of lab room contaminants to vary the minimum ventilation rate of the lab or vivarium to provide both better safety and lower energy use. This talk will review the concept and an enabling technology as well as provide some case study results and quantitative analyses of energy savings and first cost impacts.

A Holistic Overview of Technologies and Strategies to Achieve Deep Energy Reductions in Laboratories

As we strive to build more energy efficient laboratories and vivariums, the most impactful approach is often to reduce the outside airflow. In the last few years new design approaches such as demand based control of lab air change rates, chilled beams (hydronic cooling), and VAV exhaust fan control have been successfully employed to safely reduce these lab airflows to as low as 2 ACH to cut energy consumption significantly. Although these concepts may be discussed individually in the past, this talk provides a holistic discussion of how these and other energy saving technologies such as heat recovery can be combined to create a whole that is greater than the sum of the parts. Several case studies will be provided as well as the results of a sophisticated lab energy analysis tool to determine potential energy and capital cost savings for a typical lab building.

RSVP BY APRIL 20 TO CCALLOWAY@AERCO.COM
Las Vegas Proves Big Winner for ASHRAE, AHR Expo and Industry

The crowd at the opening of the 2017 AHR Expo was indicative of its record attendance. The 2017 ASHRAE Winter Conference and 2017 AHR Expo in Las Vegas broke records. The two events exceeded the record-breaking attendance from the 2011 Conference and Expo in Las Vegas. In total, 3,579 people attended the Conference, making it the most well-attended Winter Conference in recent years. The attendees represented 58 countries and included 537 first-time attendees. The AHR Expo set several records, including attendance of more than 68,000 registered visitors and exhibitor personnel, as well as 500,159 ft² (46,466 m²) of exhibit space sold. The Show was by far the largest and best attended Expo in a Western state, with 1,968 exhibiting companies.

ASHRAE Day on the Hill

On February 15th, a group of volunteers went to the Georgia State Capitol for our first ASHRAE Day on the Hill. The volunteers visited the offices of all 236 Georgia Legislators and dropped off information related to ASHRAE. I’d like to thank all the volunteers who came out and participated int he Day on the Hill and look forward to hosting another one next year.

A task force has been appointed to review the 2015 International Energy Conservation Code, and any proposed amendments for adoption to replace the current 2009 edition as the Georgia State Minimum Standard Code. The next 2 meetings will be held on March 7, 2017 and April 18, 2017 at the Georgia Department of Community Affairs at 10 AM and the public is welcome to attend.

ASHRAE Celebrates 35 Years of Technology Awards

This year marks the 35th anniversary of the ASHRAE Technology Awards. More than 300 projects have been recognized since 1981, when the program started as the ASHRAE Energy Awards. The awards recognize outstanding achievements by members who have successfully applied innovative building design. Their designs incorporate ASHRAE standards for effective energy management and indoor air quality. Winning projects are selected from entries earning regional awards.

John Pruitt
Grassroots and Government Activities Chair, Atlanta Chapter
johndpruitt@hotmail.com
Join Us for the 2017 ASHRAE Atlanta Chapter Product Show

When: Thursday, March 9th, 2017

Location: COBB GALLERIA CENTRE
Two Galleria Parkway
Atlanta, Georgia 30339

For more information, see the Product Show webpage.

Make sure to register for attendance at our semi-annual product show.

Technical Sessions Include:
- 10:30-11:30 - Intelligent VAV
- 11:45-12:45 - RTU Filter Optimization
- 1:00-2:00 - Importance of Factory Start-Up for VRF Projects

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Gladiators Hockey Night

Come enjoy a night out with ASHRAE at the Atlanta Gladiators game on Saturday, March 11th! Friends, Family, Co-Workers, neighbors, strangers alike are all welcome to the event!

This event includes a tour of the facility’s refrigeration system, food and drinks at the Party Terrace prior to game time, and a ticket to the game itself to see the Gladiators take down Idaho!

In addition to the awesome lineup below, we are offering a full refund to all new ASHRAE members who sign up. We will have information at the game for anyone interested. So come enjoy a game and get your meal and ticket refunded for new ASHRAE members!

Game Night Schedule:
- 4:05 - Refrigeration Tour at the Stadium
- 5:05 - Access to the Party Terrace for all you can eat and drink!
- 7:05 - Game Time!!

What the Tickets Include:
- Premium seat for the game
- All you can eat in a private party terrace in the arena
- All you can drink beer, wine, ice tea, & lemonade
- Official Gladiators game night publication
- Private tour of the arena’s refrigeration facility (starts at 4:05 pm)
- Private entrance into arena
- Free parking
- ASHRAE’s name in lights
- Registered to win a piece of Gladiator’s Gear

Parker Brunelle
YEA Chair, Atlanta Chapter
pbrunelle@joepowell.com

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ACE Atlanta at a Glance...

- ACE Stands for Architecture / Construction / Engineering
- Free After School Program (Funded by Corporate Sponsorship)
- A/E/C Industry’s Fastest-Growing High School Mentoring Program
- Open to All Atlanta-Area High School Students Who Can Obtain Transportation to a Location
- Six Atlanta Metro Teams
- Students Interact Weekly with Industry Professionals
- Meetings Run for 18 Weeks from January through April

Students gain...

- “Real-World” Preview of a Building Project
- Tours of Active Construction Sites
- Visits to Industry Firms
- Opportunities to Win Scholarships
- Opportunities to Build Industry Networks
- Potential for Job Shadowing, Internships & Future Employment
- Professional Development through Problem Solving, Presentations, and Teamwork
- Friends and Student Networks!

Mentors gain...

- Contribution to Current Workforce Needs
- Community Impact & Involvement
- Head-Start on Early Recruiting
- Training & Development for Young Professionals
- Interdisciplinary Industry Involvement
- Network of Like-Minded Professionals

Don’t miss it...
December 2, 2016 – Industry Kick-off Lunch
January 2017 – New Year Mentor Social
Week of January 9, 2017 – Meetings Begin
May 9, 2017 – 2017 Annual Benefit & Awards Banquet
Fall 2017 – 4th Annual SMPS-ACE Shoot-for-Success Fundraiser

Did you know? ACE currently operates in more than 60 affiliates covering 40 states, and over 200 cities. This year alone, over 8,000 students and almost 3,500 mentors participated in the program; 70% are minorities and 40% are young women. Over $14 million in scholarships have been awarded including $1.7 million last year!
What are **YOU** doing to build the next generation A/E/C workforce?

**NEXT STEPS TO ACE INVOLVEMENT**
What makes sense for you and your company?

**Mentor.** Do you have a passion for what you do and an hour or two per week (January – April) to devote to the next generation of A/E/C? Our mentors are the driving force of ACE Atlanta. Help students understand our industry, build relationships, and explore careers.
* Visit [acementor.org/mentors-volunteers](http://acementor.org/mentors-volunteers) to register as an ACE Atlanta Mentor *

**Speak.** Do you have an area of expertise you’d like to offer? Our teams would love to host you at one or more sessions to share your A/E/C passion and lead activities with our students.
* Contact Michael Hasamoh at MHasamoh@BrasfieldGorrie.com *

**Volunteer.** Do you have some time to offer and a desire to help? We need help with fundraising, events, marketing, and outreach!
* Contact Kymberlyn Gardner at kpgardner@tcco.com *

**Donate.** Would you like to contribute to student scholarships and fund team build activities?
* Contact Jeanie Janson at jjanson@ksise.com *

**Lead.** Join the “think tank” behind what ACE can do to enhance the education and careers of more Atlanta students.
* Contact Amy Tribo at atribo@holder.com *

Please direct questions to [AtlantaGA@acementor.org](mailto:AtlantaGA@acementor.org) at any time!

ENGAGING – EXCITING - ENLIGHTENING students toward careers in A/E/C
[acementor.org/atlanta](http://acementor.org/atlanta) | twitter.com/ACE Mentor ATL | facebook.com/ACE Mentor ATL
Spring RP Golf Tournament
Wednesday, May 10th, 2017
8:30 a.m. shotgun start

Heritage Golf Links, 4445 Britt Road, Tucker, GA 30084; Phone: 770-493-4653

Golf: $650.00 per foursome; $175.00 for individual players.

Sponsorships*:
- Hole Sponsorships: $300 (16 available)
- Contest Hole Sponsorships (Closest to the Pin & Long Drive)**: $750 (2 available)
- Luncheon Sponsorship: $1,500 (1 available)
- Raffle Sponsorships: $550 (unlimited)
- Beverage Cart Sponsorships: $750 (2 available)
- Trophy Sponsorship: $350 (1 available)

* All sponsorships are tax-deductible contributions to ASHRAE RP.
** Alcohol must be purchased through the clubhouse for Contest Hole Sponsors per course policy.
Vendor may set up table/tent at sponsored hole.

Team / Individual Golf “Cheat” packages:
Package includes: (3) mulligans, (1) red “tee buster”, (1) 12” String & (4) Raffle Tickets per golfer.
Cost is $100.00 per foursome or $25 for individuals.

Range balls are provided prior to the shotgun start and a post-tournament awards luncheon will be held.

Registration will open Monday, March 6th, 2017.
Visit www.ashraeatlanta.org to sign up your team or be a sponsor for this tournament.

Please contact Reed Coggins at rcotts@newcomb-boyd.com or 404-730-8417 with any questions.
The Spring Tournament fills up quickly, so register as soon as possible!
March 2017 Edition

We are very excited to bring our members some great things this year, including an updated website better suited to serve your needs, great technical presentations during our chapter meetings, and a Member Spotlight where we will honor one of our excellent members each month.

Have ideas of what you would like to see as a member benefit? Let us know!

Interested in volunteering? We have multiple positions available for people wanting to get more involved in the chapter. Jump right in as a committee chair or learn the ropes as a committee co-chair. Considering it but not sure? Join us for a BOG meeting, which is open to the public, and decide for yourself!

Brendan Gardes
MP Chair, Atlanta Chapter
membership@ashraeatlanta.org
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 our Chapter Secretary at secretary@ashraeatlanta.org.
Sponsors

Thank you to the 2016-2017 ASHRAE Sponsors! Interested in being a sponsor? Sign up now!

Let’s thanks these companies for their donations. If you would like to be a sponsor for the 2016-2017 calendar year, please click on the link for more information or contact Brian Justice (below is the email) http://www.ashraeatlanta.org/event-850135.

Thanks to our newsletter sponser:

Rainwater is a Resource

Brian Justice
Chapter Board of Governors, Atlanta Chapter
justicebrian@charter.net
Scholarships Available - Apply Today!

Through its scholarships, ASHRAE seeks to motivate students and prospective students worldwide to pursue an engineering or technology career in the HVAC&R field. The Society’s Scholarship Program also serves the public interest by aiding in the education of men and women to become qualified to practice as engineers in HVAC&R. ASHRAE has 28 scholarships available for the 2015-16 school year, for high school seniors entering college through senior undergraduate engineering students and engineering technology students. ASHRAE is seeking your assistance in making student members aware of this financial assistance.

* 8 regional/chapter and university-specific scholarships — $3,000 to $5,000 each. Now accepting applications!
* 12 undergraduate engineering scholarships — $3,000 to $10,000 each. Now accepting applications!
* 4 high school senior scholarships — $3,000 each
* 4 engineering technology scholarships — $5,000 each

Qualified students are encouraged to apply online:
www.ashrae.org/scholarships

Annual Application Deadlines:
May 1st for Engineering Technology and High School Senior Scholarships

Scholarships are awarded for the academic year following the application deadline beginning with the fall semester. For a list of available scholarships, complete eligibility requirements, and an application, visit www.ashrae.org/scholarships
Are you missing out?

Don’t miss out on the latest ASHRAE publications! For more information, visit the Resources and Publications page: www.ashrae.org/resources--publications
How Do I Join ASHRAE?

1. Visit http://www.ashraeatlanta.org/ to start the process
2. Click "Membership" on the horizontal menu bar
3. On the pull down menu, click "Join"
4. Enter your email address in the box "Verify your E-mail status"
5. A prospective member will then be directed to enter his or her email information. As a new member, your address will not be recognized, and you will be invited to “Register Now”.
6. After you complete registration, you will be directed to the Individual Information page where you can finally select “Join ASHRAE”!
Convenient and Useful ASHRAE Links

Again this year, our use of the Internet to further embrace our goal of Modeling a Sustainable World will be continued. Please use the web sites listed below:

1. RSVP and prepay for each event through the Atlanta ASHRAE [http://www.ashraeatlanta.org/](http://www.ashraeatlanta.org/). For events where meals are served, you must at least RSVP to ensure that there will be a meal for you. We encourage you to prepay, as this will speed your way through the check-in process.
2. Pay your Chapter dues of $40 per year directly to the chapter: [http://www.ashraeatlanta.org/Membership](http://www.ashraeatlanta.org/Membership). These dues are in addition to your Society dues and help fund the Chapter’s programs and outreach.
3. Donate to ASHRAE Research Promotion. We have a fundraising goal of $44,000 this year, so please do what you can to help fund ASHRAE research. Donate here: [https://xp20.ashrae.org/secure/researchpromotion/rp.html](https://xp20.ashrae.org/secure/researchpromotion/rp.html)
5. Like the “ASHRAE Atlanta Chapter” page on FaceBook at: [https://www.facebook.com/ASHRAEAtlanta/](https://www.facebook.com/ASHRAEAtlanta/)
6. Access the Product Directory online at the Atlanta ASHRAE website. Please note that this feature is in the process of being updated.
Megan Tosh – Vice President
vicepresident@ashraeatlanta.org

Megan is currently a Software Support Engineer at Integrated Environmental Solutions (IES). She provides software training and technical support to users throughout North America. Megan completed her Bachelors and Masters of Mechanical Engineering at the University of Central Florida, where she joined ASHRAE as a Student Member. She has been volunteering with ASHRAE since, previously serving in several chapter chair positions, as President of the Central Florida Chapter, as YRC in Region XII, and as Chair of Young Engineers in ASHRAE. In addition to being your Treasurer, Megan is currently the RVC for Student Activities in Region IV.

Sarah Young – Treasurer
treasurer@ashraeatlanta.org

Sarah is currently a Mechanical Engineer Consultant at DLB Associates where she is part of the design, commissioning and MSI teams. Sarah is a graduate of Grove City College with a Bachelor of Science in Mechanical Engineering. She has been volunteering with ASHRAE for several years, and was the YEA Chair (2 years) and CTTC (Programs) Chair (1 year).

Irvin Sierra – Secretary
secretary@ashraeatlanta.org

Irvin is currently a Commercial Engineer Manager with Lennox Industries for the greater Atlanta area. He received his Bachelor of Science degree in Mechanical Engineering Technology from Wentworth Institute of Technology in Boston, MA. Irvin started his career in HVAC as a consulting engineer and moved into HVAC sales in 2003. He relocated to Atlanta with his family in 2005 and has been a volunteer with ASHRAE for several years and organized the ASHRAE Atlanta Trade Show (2 years). He has held positions of Communications Chair, Student Activities Chair and is currently the Chapter Secretary.
Browse Job Postings on Our Site

Did you know employers can post job opportunities on the Atlanta Chapter website for FREE?

As the professional society that serves as the major connection through all parts of the HVAC industry, it is important to the Atlanta ASHRAE Chapter to keep all members employed. Likewise, we are happy to assist employers in posting their job

Go to the following page on our site to browse the posted employment opportunities: http://ashraeatlanta.org/JobOpportunities
Amber Scales, our Communications Chair invites you to connect with the ASHRAE Atlanta Chapter on networking social media.

(Let’s Connect)

www.linkedin.com/groups/ASHRAE-Atlanta-Chapter-2186496

www.facebook.com/ASHRAEAtlanta