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OCTOBER 2009



The Dewpoint

THEME: MEMBERSHIP AND RESEARCH PROMOTION MONTH

PRESIDENT'S MESSAGE



Rich King, PE

Our first meeting got us off to a great start! Thanks to all members and friends that attended, and a special thanks to our YEA members that attended our first YEA-Tech session. Looking ahead, I'd like to focus our attention on some important financial aspects for events concerning our chapter.

First, our Fall Golf Tournament typically boasts a corporate sponsor, however, this year we have yet to secure a sponsorship. Unfortunately, this will lead to a decrease in revenue donated to research this year. We are also in need of golfers, hole sponsorships and beverage cart sponsors. Please [click here](#) for more information. The research funds from this golf tournament are earmarked for the Central Florida Sustainability Project, benefiting Frontline Outreach. This project will be showcased at the ASHRAE Winter Meeting in January. For more information, please visit the Sustainability Project [page](#) on our website.

Next, in April of 2010, we will have our Spring Golf Tournament to raise funds for research promotion. Again, it is crucial for our chapter to obtain sponsorships and donations to advance the arts and sciences of ASHRAE. If you are unable to help sponsor or participate in our Fall Golf Tournament, I hope you'll show your support this spring and join us on the golf course!

Another fundraising event will be our second Poker Tournament. Last year's event was so popular we're hosting another tournament this year and hope you'll enjoy all the improvements we have in mind. We'll have opportunities for sponsorship, door prize donations, and of course for entrants to try their luck at the poker table! The proceeds from this tournament will also go towards research.

On May 11th of 2010, ASPE is organizing the ASPE/ASHRAE product show that will be at the Central Florida Fairgrounds. This event helps to fund student activities for our chapter. We've had a lot of success with student activities and our chapter has seen the benefit of our efforts in the number of talented young leaders who currently give back and volunteer in our organization.

And lastly, it is the Central Florida Chapter's year to host the Chapters' Regional Conference (CRC) in August of 2010. The region provides a small amount of funds to help with the cost of hosting the conference, but these monies and the registration fees do not fully cover all of the expenses associated with hosting the event. This year we are seeking sponsorships at a silver, gold, and platinum level to help offset these costs. Please watch for more details on our sponsorship packages at a later date.

I am optimistic that together we can overcome these financial hurdles. Our chapter needs your help to keep the success of the Central Florida Chapter alive.

Thank you to those who have already contributed; the chapter appreciates all that members do to support us in difficult times!

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and Air Conditioning Engineers, Inc.*

www.ashrae-cfl.org

ASHRAE Society Website: www.ashrae.org

Programs

Chair:

Jason Alphonso, PE



What a great week (Sept 10 - 17) of learning in Central Florida!

Our first meeting of the year (9/10) saw ASHRAE Distinguished Lecturer, Dr. Victor Goldschmidt present on "ASHRAE Code Values, Code of Ethics and their Implications". As advertised prior to the meeting, Dr. Goldschmidt truly unraveled the DNA of our organization. The 65 members who attended learnt about ASHRAE's core values – namely, *Advancement, Leadership, Integrity, Service, and Excellence*. Our membership was also given a reminder of our Code of Ethics. Now, a reminder of our code of ethics could sometimes be a rather touchy topic, but important all the same as we address the day-to-day business of our lives.

I must add our first 'YEA Tech' session was an enormous success. Rich King and I hopefully helped our young engineers understand what is YEA. We had about 15 young engineers attend. The free hors d'oeuvres definitely helped!

We were not done with our distinguished speaker yet..... Dr. Goldschmidt then went on to spend a whole day (9/14) at the University of Central Florida. He spent time carrying the ASHRAE flag as he presented and interacted with our faculty advisor, other academia, dean of engineering and our student branch officers.

He then spent one evening (9/15) with our ASHRAE Central Florida leadership. In a rather interactive session the group was introduced to the finer aspects of leadership and management. The important pointers of that meeting were broadly defined with the 5 E's and the 3 C's. The five E's being **Envision, Equip, Empower, Edify and Evaluate**. The three C's being **Communication, Change and Commitment**.

Just a few hours before his flight (9/17), Dr. Goldschmidt met with the President and Executive Director of BOMA Orlando. It was an important meeting between our chapter President, Rich King, and his counterpart in BOMA. A truly great meeting of the minds! BOMA is an organization so central to our society presidential theme.

We thank Dr. Goldschmidt for his energy and initiative. He did all this while also making two trips to the ASHRAE Spacecoast chapter. His dedication to ASHRAE truly needs to be applauded.

Thank you for coming to our first meeting. You definitely don't want to miss the next meeting. **It features the Mayor of Orange County, Richard Crotty as the keynote speaker.** Please mark October 8 in your calendars!

ASHRAE Winter Meeting—Orlando 2010

As many of you know, the 2010 ASHRAE Winter Meeting is coming to Orlando January 22nd - 26th! Information about the meeting can be found on ASHRAE's website at www.ashrae.org. If you have any questions, or want to volunteer to help with the meeting, please contact:

Host Committee Chairman: Bill Dillard bdillard@msifla.com

Host Committee Co-Chairman: Wade Conlan wconlan@x-nth.com

For a full list of Host Committee members and more information on the upcoming event, please visit the Central Florida ASHRAE Website, www.ashrae-cfl.org/events/2010-winter-meeting/.

Have you seen our updates on Facebook? Become a fan of ASHRAE on Facebook (www.facebook.com/pages/ASHRAE/106136469528?v=info) and keep an eye out for updates on the Winter Meeting from your local Host Committee!



Upcoming Events

Fall Golf Tournament
October 2, 2009
Sanctuary Ridge Golf Course

Orange to Green
October 8, 2009
Mayor Richard Crotty
Joint Meeting with CFEAA

Orange County Teach-In
November 18, 2009
Frangus Elementary School

Standard 180, A New Approach to HVAC System Maintenance
November 19, 2009
Robert G. Baker
Joint Meeting with BOMA/IFMA

Overview of ANSI/ASHRAE/IESNA Standard 90.1
December 10, 2009
Lawrence G. Spielvogel, P.E.
Joint Meeting with FES

ICRA (Infection Control Risk Assessment) 101: Understanding the Basics of Liability and Risk During Healthcare Construction
January 14, 2010
Marlene Linders
Joint Meeting with ASHE

Sustaining Our Future by Rebuilding Our Past
February 9, 2010
Gordon Holness, P.E.,
Society President
Joint Meeting with BOMA/IFMA

Central Florida Shrimp Boil
March 2010
Location TBD

Master Format 2004
April 8, 2010
Charles E. Gullledge, III, P.E.
Joint Meeting with SWE/ASME

Spring Golf Tournament
April 2010
Sanctuary Ridge Golf Course

Ice Fog and Psychrometrics: The Missing Link in Industrial Freezer Design
May 13, 2010
S.A. Sherif, PhD
Joint Meeting with AEE

CTTC Update

If you missed the August publication of the ASHRAE Journal there was an update in the Washington report on the new energy bill. On June 26th the U.S. House of representatives passed H.R. 2454 which is the American Clean Energy and Security Act. The act includes more stringent requirements of ANSI / ASHRAE/ IESNA standard 90.1 and increases the reduction of energy from 30% to 50% by 2016. Additionally the act included language to provide incentives for retrofit program at various energy level savings tied back to ASHRAE standard 62.1. The act included language about the new building energy labeling program established within the Environmental Protection Agency. For more information on the article, please visit the August ASHRAE Journal.

The September meeting featured distinguished guest Victor Goldschmidt. Dr. Goldschmidt discussed the importance of integrity and leadership goals. This was a great conversation to kick off our new meeting year. Many of us speak of integrity and attempt to do the right thing when asked. However sometimes we all slip and forget the importance of what we do and how it will be remembered. Remember the impact we have on others. Your honesty and integrity will be remembered long after you are gone.

Chair:
John Davant

Most of us understand the concept of leadership goals. When was the last time you visited the goals you set at the beginning of the year. A majority of us would most likely have to admit the goals were stuffed in a draw one month after we set them until next years goals. Once again we will write them down with good intentions of following our goals until we get busy and forget about them. A good friend once asked me, "How do you know where you are going if you do not know what the end looks like?" An important goal one could have is to lead by example. What part of your goals do you intend to accomplish today? How will it impact others? How will it impact you?

Technical Activities

Co-Chair:
John Fabian



Updated DCV Requirements

Even though ASHRAE 90.1-2007 has been out for a few years already, I haven't really dug into it as much as I should have. Mainly because the LEED® projects I work on are listed under version 2.2, which references 90.1-2004. Since the new LEED v3 rating system will reference 90.1-2007, I thought it would be a good opportunity to compare some of the differences in both the 2004 and 2007 versions. Although there are many revisions between the standards, one change I wanted to point out in this article concerns ventilation control.

Outside air (OA) is a very important component when it comes to energy use, especially in larger buildings where occupancy densities change throughout the day. If at any given time the system is bringing in more OA than needed, the system will use more energy to cool or heat the excess OA (depending on season). Standard 90.1-2004 only required systems with 3000+ CFM and average occupancy density of 10 ft² per person to have Demand control ventilation (DCV). In 90.1-2007, DCV is required for spaces larger than 500ft², having a design occupancy density of 25 ft² per person and having either:

- an air-side economizer
- modulating OA damper, or
- systems with 3000+ OA

The big thing to note is the occupancy density. Basically, DCV is now required for systems that have a lower occupant density than it previously did. Comparing occupant densities from ASHRAE 62.1-2007, spaces such as malls, museums, and other spaces are required to have DCV if the above criteria apply.

For more information refer to ASHRAE standards 90.1-2004, 90.1-2007 and 62.1-2007.

Refrigeration

Chair:
Cameron Sherwood



Split DX Systems and SST

When selecting a commercial split DX system with a constant volume draw-thru AHU and matching condensing unit for low supply air temperature (SAT) applications, the saturated suction temperature (SST) is a concern. The SST is the temperature of the refrigerant inside the cooling coil, so we assume the cooling coil will be the same temperature. Ice begins to form on the cooling coil with a SST of 38° F; any lower temperatures are not advisable. To prevent the coil from icing and to have some leniency for fluctuation in the system and/or design, some manufacturers recommend a SST no less than 41° F.

A DX AHU selection for the design CFM may yield a SST less than 41° F when the LAT off the cooling coil will be 49° F with a SAT of 52° F; these are low temperatures and run the risk of freezing the coil. One solution to increase the SST to 41° F can be achieved by increasing the air flow, preventing the coil from freezing, and the extra air can be distributed to non-vital areas. This is not the most energy efficient method, but it will keep the initial cost down when price is an issue. Utilizing energy recovery equipment or desiccant wheels to reduce the cooling load on the DX coil is also an option.

Refrigerant capacity control is important to maintain adequate SST. Capacity control allows the unit to operate, maintain space temperature and humidity by avoiding short cycling during low load conditions and prevent icing of the coil. Hot gas by-pass or variable volume compressors are appropriate control strategies.



Young Engineers in ASHRAE

Chair:
Leo Rocha



We had a great first meeting and outstanding attendance for our tech topic session. A total of 15 attendants were present where they had the opportunity to hear from Mr. Jason Alphonso, ASHRAE YEA chair, on the objective and resources that YEA will provide to all of its members. A special welcome to all of our YEA members was given by our very own Richard King, Central Florida ASHRAE President. For October's tech topic session, Mr. Paul Halyard, President and CEO of Property Condition Assessment, Inc., will share his project experience with our Central Florida YEA members and will highlight the history of Central Florida's first centrifugal chiller.

New this year, we are including outdoor and social activities that will give our Central Florida YEA members the opportunity to network with each other and with our professional members. If you have suggestions or ideas regarding upcoming YEA events, please feel free to contact me at leo.rocha@aquairfl.com

Get ready for Dodgeball!!! Our first Central Florida ASHRAE-YEA tournament will take place on Saturday, February 27th, 2010. Everyone is welcome to take part of this outdoor activity. We will be following the rules of the National Amateur Dodgeball Association (NADA). Registration and rules will be given out on the November monthly meeting at Dubsread Historic Banquet Hall. Every team needs to have between six and ten players, so start recruiting your team members and lets have a safe and fun time.



Please join us on Saturday, March 27th for our first Central Florida YEA Billiards Tournament. This social event will take place at Trick Shots in Waterford Lakes. This will be a single elimination tournament; each team will consist of one Central Florida YEA member and one professional member. Door prizes and souvenirs will be given. Registration for this event will open soon!

Student Activities

Chair:
Anik Patel



Co-Chair:
Kellie Watson



Student Activities is off to a great start as the UCF Senior Design Competition is now up and running. Due to overwhelming student interest, we've added four more students (14 total) to the competition this year. These students hope to continue UCF's strong tradition of success and they have a lot to live up to. Last year's students won 3rd Place!

The ASHRAE UCF Student Branch is also very active. Seven students were present at our September chapter meeting where they listened to Distinguished Lecturer Dr. Victor Goldschmidt. Dr. Goldschmidt also visited UCF and spent time with the students, giving them leadership insight from his years of experience. Finally, the students toured UCF's "LEED Silver" Physical Sciences building.

Students will be selling **ASHRAE Polo Shirts** in conjunction with our annual fall golf tournament. You can purchase them on the [Chapter Website](#) or at our October meeting for \$45.

Our K-12 outreach event, "**Bring an Engineer to School Day**" will take place on Wednesday November 18 at Frangus Elementary School. This OCPS annual Teach-In Day program gives ASHRAE members the perfect opportunity to share the careers they love with local children. You can find more information through the [Chapter Website](#) or sign up to volunteer by emailing ashrae.sa@gmail.com.



Research Promotion

Chair:
John Miller, PE



Greetings to all of our Central Florida Donors!

It does not matter if you are a consulting engineer, building engineer, contractor, researcher or a building owner the work performed by ASHRAE Research has influenced and improved how we perform our respective duties. This month your Central Florida Chapter and Society would like to thank and recognize all of our members, affiliates and friends who have contributed at or above the Honor Roll level in the 2008-2009 Research Promotion Campaign. With the help of these donors and all who have contributed we were able to meet the goals set by Society in order to fund our research and raised a total another Research Promotion Chapter record by raising \$33,842 to better our industry!

The following Chapter Donors contributed at or above the honor roll level for the 2008-2009 Campaign:

\$2,000 +
Bill Dillard
X-nth

\$1,000 to \$1,999
Mechanical Services of Central Florida, Inc.
Steril-Aire, Inc.
SPX Cooling Technologies

\$300 to \$999
Stan Weaver & Co.
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Mr. Erik Smedal
Mr. Jason Alphonso
Mr. Richard King
Mr. John Miller
Mr. Randy Proudfit
Mr. Leonardo Rocha

Again, I would like to thank all of our donors who continue to contribute and serve our industry and encourage all of you who would like to get involved to donate today!



James A. Oberlin	1962-63
James A. Driver	1963-64
Warren L. Chase	1964-65
Kenneth E. Hayes	1965-66
Lloyd H. Boissoneault	1966-67
William C. Denson, PE	1967-68
Maynard D. Reese	1968-69
William R. Penn	1969-70
Theodore H. Brooks	1970-71
J. Wesley Floreth	1971-72
Wiley M. Cauthen	1972-73
Edwin C. Pratt	1973-74
Lyle M. Houser, Jr, PE	1974-75
Hal A. Head, PE	1975-76
Garth E. Tristram	1976-77
Raymond E. Davis	1977-78
W. Hugh Wilson, Jr	1978-79
William M. Dillard	1979-80
John D. Simmonds, PE	1980-81
Joseph K. McCarthy	1981-82
Dwayne Lorenze	1982-83
David Wassman, PE	1983-84
David Krause	1984-85
Bill Watford	1985-86
John J. Asendorf, PE	1986-87
Melvin Borczynski	1987-88
Jack Zelsman	1988-89
Kenneth L. Eiermann, PE	1989-90
Kevin K. McKenzie, PE	1990-91
Todd S. Morgan, PE	1991-92
Firouz Keikavousi	1992-93
John Elsea	1993-94
Bernard Horne	1994-95
Mark Lanier	1995-96
Larry Snyder	1996-97
Bill Leaton	1997-98
Hossein Dayi, PE	1998-99
Gary Carver, PE	1999-00
Michael Sheerin, PE	2000-01
Traci Just	2001-02
Chris Bradford	2002-03
Dan Cross, PE	2003-04
Damon Lynn, PE	2004-05
Todd Moore, PE	2005-06
Tim Citek	2006-07
Mike Dillard	2007-08
Wade Conlan, PE	2008-09
Rich King, PE	2009-

Chair:
Amy Pastor



Co-Chair:
Amy Weaver, PE



Membership Promotion

Our next meeting on October 8th will be our first Membership Promotion Night of the year! How can you help, you ask? All you have to do is bring a prospective member to October's Chapter Meeting and have him/her join that night! He/she can either bring a completed application for membership, or fill one out at the meeting along with either cash or check made payable to "ASHRAE" for \$165 for society dues and \$40 for chapter dues. Both the host member and new member will each receive a credit to November's Chapter dinner meeting!

Membership Grades:

This month we'll discuss in depth the ASHRAE membership grades. The next Membership Promotion article will go into how to upgrade if you qualify for advancement. The following information on Membership Grades was taken from <http://www.ashrae.org/members/page/598>.

Student Member: As a student member you get many of the ASHRAE benefits for a fraction of the cost. Yearly dues are \$16. To qualify, you must be studying or have an interest in an HVAC&R industry-related field. Eligible students must be participating in an approved course of study in a university, college, junior college or technical institute. Student Members may purchase the ASHRAE Handbooks at a discounted price of \$49 each. As a student member, you are also allowed to participate in the Student Design Project Competition, apply for Grants-in-Aid, Society and Local Scholarships and participate in Student Branch Activities. Additionally, student members receive free registration for ASHRAE Meetings; and Student Activities at the Winter Meeting. Student member grade ends one year after leaving school or graduating, at which point you can advance to regular member status during the first year and pay only \$16 instead of the full Affiliate fee of \$165.



Affiliate Member: This membership level is the newest for ASHRAE. It helps young engineers entering the work force receive all of the benefits of ASHRAE for a reduced cost. Yearly dues are, for Year 1: \$50, Year 2: \$70, Year 3: \$90. Assignment to this grade is limited to those who are under 30 years of age who are first-time new members. Additionally, if you were a student member of ASHRAE, you can qualify for 3 years as an affiliate member before becoming an Associate Member. Benefits of this membership grade include the ASHRAE Journal (print and electronic copies), ASHRAE Insights and discounts on ASHRAE Handbooks and ASHRAE courses and print media. The ASHRAE Handbook is not given with this Member Grade.

Associate Member: The associate member grade is awarded to individuals who have less than 12 years of ASHRAE-approved industry experience in HVAC&R fields. Yearly dues are \$165. Benefits include the ASHRAE Handbook printed during your member year, the ASHRAE Journal (print and electronic copies), ASHRAE Insights, HVAC&R Industry eNewsletter, Society Connection eNewsletter and discounts on ASHRAE courses and print media. Members who are awarded this member grade typically are a few years out of college and do not have their PE license yet or do not have a college degree and have been working in the industry for less than 12 years.

Member: The grade of Member is awarded to individuals who have 12 or more years of qualified industry-related experience. Credit for industry-related experience can be earned from any combination of approved education, work experience and professional registration. Yearly dues are \$165 and include a copy of the ASHRAE Handbook printed during your member year, the ASHRAE Journal (print and electronic copies), ASHRAE Insights, HVAC&R Industry eNewsletter, Society Connection eNewsletter and discounts on ASHRAE courses and print media.



Colombia Section

Chair:
Megan Tosh



Along with our Region XII DRC, Ross Montgomery, I recently had the pleasure of attending Expoaire 2009 hosted by Asociación Colombiana del Acondicionamiento de aire y de la Refrigeración ([ACAIRE](#)) in Cali, Colombia. The president of ACAIRE, Camilo Botero, was an excellent host and Claudia Mandez, the executive director, put together a truly fabulous event. We were honored to be invited and thoroughly enjoyed every minute!



Megan Tosh, Ross Montgomery and Fabio Clavijo after Fabio's installment as President of the Colombia Section of ASHRAE

At one of their sessions, we officially recognized the Colombia Section of ASHRAE and installed their president, Fabio Clavijo. This meeting also gave us the opportunity to speak to the Colombia Section and many members of ACAIRE about ASHRAE. Ross shared the education opportunities ASHRAE offers and there was definitely interest in the certification programs from the group! We look forward to seeing many of the members at our upcoming Winter Meeting in January.

In addition to our time as Expoaire and in ACAIRE meetings, we also took time to explore Cali. Cali is a gorgeous city in western Colombia that lies at the base of the Andes. Views of the mountains can be seen throughout the city which boasts a population of over 2 million. The local cuisine was a delicious treat and nearly every restaurant we visited was naturally ventilated. We had an amazing time in the city and look forward to visiting Bogota and Bucaramanga in the future!



Megan Tosh and Ian LaHiff enjoy lunch with the president of ACAIRE, Camilo Botero

Thank you, Central Florida ASHRAE, for sponsoring the Colombia Section. Your support is greatly appreciated!

Members of ACAIRE and the Colombia Section listen as Ross talks about the many education opportunities and certifications offered by ASHRAE



Members of ACAIRE and the Colombia Section listen as Ross talks about the many education opportunities and certifications offered by ASHRAE

Chapter Leadership



President:	Richard King, PE (407) 246-1688 rking@peifla.com	UCF Initiative,	Kyle Davis (407) 321-8100 kyle.davis@harperlimbach.com
President Elect: Programs:	Jason Alphonso, PE (407) 857-3510 jalphonso@msifla.com	Historian:	Tim Citek (407) 671-3739 tcitek@cfl.rr.com
Vice President:	Leo Rocha (407) 671-3739 leo.rocha@aquaaifrl.com	Welcome Committee:	John Miller, PE (407) 246-1688 jmiller@peifla.com
Treasurer:	John Miller, PE (407) 246-1688 jmiller@peifla.com	Research Promotion:	John Miller, PE (407) 246-1688 jmiller@peifla.com
Secretary:	Megan Tosh (407) 581-6940 mtosh@stanweaver.com	CTTC:	John Davant (407) 212-1293 john.s.davant@jci.com
Past President: & Governor	Wade Conlan, PE (407) 660-0088 wconlan@x-nth.com	Calling Committee:	Amy Weaver, PE (407) 661-9100 amyw@c-p.com
Governor:	William (Bill) Dillard (407) 857-3510 bdillard@msifla.com	Honors & Awards:	Firouz Keikavousi (407) 405-3429 firouzkg@gmail.com
Governor:	Mike Dillard (407) 857-3510 mdillard@msifla.com	Dewpoint Editor:	Megan Tosh (407) 581-6940 mtosh@stanweaver.com
Governor:	Michael Sheerin, PE (407) 841-9050 michael.sheerin@tlc-eng.com	Chapter Website:	Richard King, PE (407) 246-1688 rking@peifla.com
Governor:	Firouz Keikavousi (407) 405-3429 firouzkg@gmail.com	Product Directory:	Tom Edwards (407) 581-6940 tedwards@stanweaver.com
Membership Promotion:	Amy Pastor (407) 660-0088 apastor@x-nth.com	Golf Chair:	Firouz Keikavousi (407) 303-1141 firouzkg@gmail.com
Student Activities:	Anik Patel (407) 782-7495 anikppatel@gmail.com	Shrimp Boil Chair:	Dan Cross, PE (407) 701-2384 DACross@rimkus.com
YEA Activities:	Leo Rocha (407) 671-3739 leo.rocha@aquaaifrl.com	Refrigeration Chair:	Cameron Sherwood (407) 660-0088 csherwood@x-nth.com

Technical Dinner Meeting

Central Florida Chapter
Membership Promotion Night



Who
Mayor Richard Crotty
Mayor of Orange County,
Florida

What
Orange to Green



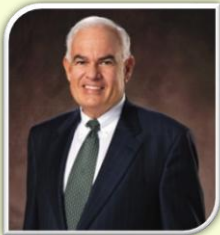
Where & When
Thursday, October 8
6:00 p.m.

Dubsdread Historic Banquet Hall
549 Par St., Orlando 32804

Register Today by clicking here: [RSVP HERE](#)

Welcome BOMA, IFMA and USGBC members !

Richard Crotty grew up in Orlando, attending Orange County public schools, Valencia Community College and the University of Central Florida where he majored in Public Administration and Communications. On January 23, 2001, Florida Governor Jeb Bush appointed Mr. Crotty as Orange County Chairman shortly after President George W. Bush appointed then Chairman Mel Martinez to serve as Secretary of Housing & Urban Development (HUD). Chairman Crotty was elected to a full term in September of 2002 with 73% of the vote. In 2004, Orange County citizens voted overwhelmingly to change the county leader's title from Chairman to Mayor to better reflect his function as chief executive.



Mayor Crotty has been recognized by Orlando Magazine as the area's "Best Politician" and was runner-up to Arnold Palmer as the person who "Best Exemplifies Orlando." The publication also ranked Mayor Crotty at the top of the list of Orlando's 50 most powerful people in July 2004. An Orlando Sentinel survey ranked Mayor Crotty #1 on its list of the "25 Most Powerful People In Central Florida" for the past three years.



Co-Speaker Alexa Stone

Lighting & Energy Specialist, HD Supply Electrical

Alexa will provide insight about the Central Florida Energy Efficiency Alliance (CFEEA). The CFEEA was established in July 2009 by a diverse group of stakeholders with a focus on sustainability. The CFEEA provides a unified voice for professional and trade organizations, local government and utilities. The Alliance is committed to research, education and implementation of environmentally and socially responsible building management practices that reduce waste of energy and natural resources. Alexa will also talk about CFEEA's adoption of the BOMA's 7-point challenge.

Menu includes: 5 oz. filet & shrimp with butter garlic, Parm baby red potatoes & chocolate cake. Be sure to indicate an alternate meal request in your RSVP to Ben Fauser (info below).

RSVP to: [INFO HERE](#): Cost: \$25 in advance; \$30 at the door without RSVP.

Discounted yearly coupon booklets available.



Come for the free hors d'oeuvres, stay for the experience!



Paul Halyard

President & CEO

Property Condition Assessment, Inc.

1. Engineer of the year 1998
2. UCF Foundation Award 2001
3. Chair, TEGA

Specially designed for our under 35 members. program begins at 6:20 - all are welcome!

Paul is an ASHRAE Fellow, the highest distinction of membership. While sharing his project experiences with you, he promises a story about Central Fla.'s first centrifugal chiller. Paul serves on the Fla. Board of Professional Engineers (the ones who give you your PE!). Paul provides insight into the responsibilities that come with the title.

Contact: Ben Fauser ASHRAE Central Florida Programs Co-Chair. Ph: 407-647-1039.

Ben_Fauser@rlfae.com. Chapter may not act for Society