



The Dewpoint

June 2003
Volume 6, Issue 10

*A monthly publication of the
Central Florida Chapter
of the American Society of Heating,
Refrigeration, and Air Conditioning
Engineers, Inc.*

www.ashrae-cfl.org

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are not expressions of the Society
or the Chapter and may not be
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permission of the Chapter."*

Central Florida Chapter of ASHRAE
2000 Parks Oaks Avenue
Orlando, FL 32808

June Program High-Latent Fixed Plate ERV Systems

Tuesday June 10th, 2003
LEE'S LAKESIDE
431 East Central Boulevard
Corner of Central and Osceola
(407) 841-1565

*For reservations, please call or e-mail
Miguel Quiles at (407) 522-7719
mquiles@addison-hvac.com. Cost is
\$20 in advance, \$25 at the door.
Social 6:00 pm, Dinner 6:30pm,
Speaker's Presentation 7:00pm*

Our Speaker

Colleen S. Smith, P.E., is a member of ASHRAE, currently serving on Technical Committee 1.9 Electrical Systems. Mrs. Smith has been involved in the energy-engineering field for several years. While at Florida Power Corporation, she explored various electro technologies including pyrotechnic processes, waste recycling processes, cogeneration, distribution processes, standby generation, power quality information systems, and automated meter reading systems. During the early 1990s, Mrs. Smith developed and then served as program manager for Florida Power's commercial and industrial energy efficiency programs, which included HVAC, standby generation, and large scale dispatchable programs.

Mrs. Smith has previously worked for an architectural and engineering firm, performing technical analyses, determined paybacks for energy conservation projects, and designed HVAC and lighting systems. Prior to that, she worked for Johnson Controls in New Orleans and Tampa where she was responsible for design and implementation of control systems for commercial buildings and industrial clients.

Mrs. Smith is currently the Marketing Director at Dais-Analytic Corporation, a

privately held technology development company. She has managed the company's field trial program, early technology adoption clients and manages company relationships with original equipment manufacturers interested in the technology.

Mrs. Smith has served as president of the Florida West Coast Chapter of ASHRAE and has affiliations with the Florida Hospital Engineers Association, Florida School Plant Managers Association, Association of Industrial Plant Engineers, and Florida School Energy Managers Association.

Overview

Moisture transfer membranes are now being used to recover both sensible and latent energy in fixed plate core arrangements in HVAC equipment.

Cost effective energy recovery can now be accomplished with fixed plate Energy Recovery Ventilators (ERVs) that transfer sensible (75%) and latent (70%) energy. Enthalpy transfer can be achieved and HVAC plants safely downsized – without the worries associated with rotating wheels, coils or drain pans! Join us for a presentation on the application and performance of this exciting technology.

*Dan Cross, PE,
Program Chairman*

Upcoming Events

Tuesday June 10th
**High-Latent Fixed Plate ERV
Systems**
Colleen S. Smith, PE

June 28th-July 2nd
2003 Annual Meeting
Kansas City, MO

August 13th-17th
2003 Region XII CRC

President's Message

Another superlative presentation...

Thank you Gil Avery, P.E. for your instructive presentation at our May meeting. Again, we had another packed house at Lee's Lakeside.

Outstanding Product Show...

I hope everyone was able to attend the ASHRAE/ASPE Product Show at the Central FL Fairgrounds. There were two excellent seminars, many product displays, and great food. Thank you very much Paul Eskin for another outstanding show, it would not have been possible without your hard work and dedication.

Final meeting of the year

Our final meeting of the ASHRAE calendar year will be on Tuesday, June 10th at Lee's Lakeside. As in previous years, this will be a social gathering and attendance by spouses and significant others is encouraged. The topic will be "Fixed Plate ERV Technology" presented by Colleen S. Smith, P.E., Marketing Director for Dais-Analytic Corporation. There will be a brief business meeting to elect next year's officers prior to the presentation.

2003 Annual Society Meeting

ASHRAE, the industry's authoritative voice on technical issues, provides a "fountain" of knowledge through its research, standards, publication and courses. So what better place for ASHRAE's 2003 Annual Meeting than Kansas City, known as the "City of Fountains." ASHRAE encourages you to come "drink from the fountain of knowledge" at the meeting, held June 28-July 2. Please visit www.ashrae.org for more details.

Regional ASHRAE Meeting

The 2003 Region XII Chapters Regional Conference (CRC) is to be held in Puerto Rico on August 13-17. The CRC is open to all members of Central Florida and other Region XII chapters. This is our opportunity as members to express opinions on how our Society is doing and to request action from our Region and/or Society Headquarters. Dan Cross P.E. and Damon Lynn, P.E. will represent the Central Florida Chapter. As part of their many duties,

they will present motions to the Region for desired changes in the way ASHRAE conducts business. If you have an opinion on any ASHRAE policy, item, or method, please express it to Dan and/or Damon. They will help formulate our opinion into a motion and present it at the CRC. Additionally, there will be several seminars, tours, and spouse events for everyone to enjoy. Please see the enclosed flyer for brief details and hotel information on this exciting event.

Thank you – and please help us out!

ASHRAE Central Florida Chapter meetings and events would not be possible without the time and dedication of its volunteers. If you are interested in helping with the continued success of our chapter, please contact any of the Chapter Leadership listed on the last page of our newsletter.

2002-03

I cannot express enough how much I have enjoyed serving as your President of the Central Florida Chapter of ASHRAE. I would not trade the experience and fulfillment this position has brought me and thank all of you for your support throughout this year. As I have stated many times, the operation of the chapter, local chapter events and meetings would not be possible without the many hard working and dedicated volunteers we have.

I want to thank all of the officers and committee/event chairpersons for their time and effort. I would especially like to thank Dan Cross, P.E. for putting together the best list of programs and events our Chapter has ever had. Attendance was up considerably this year and to do that you need to have great events. Dan will be your President next year and I know he will do a wonderful job. Finally, I would like to thank all of the members who came out and attended many of these excellent events.

...And thanks for a great year!

Chris Bradford, President

Membership

This year was another great year for our Central Florida chapter, as we have added 14 new members and students to our chapter. Please keep this hard work and enthusiasm going into next year by helping to add more members to our ranks.

Below is a list of our newest members for this year, please thank them for joining ASHRAE:

- Amy Weaver
- Jeffrey Fox
- Susan McLaughlin
- Sunil Shah

I have made it my personal mission this year to ensure that every member was advanced to his/her proper grade, and I'm delighted to inform everyone that we have been successful in upgrading 10 members to their proper grades. I would like to thank every one for their support in this effort. Although we have upgraded several members, I am sure we have several members who are still due for advancement. Please inquire if you feel you are one of those people.

Anyone who has not paid their dues for this current year, please take out the invoices, pull out the pens and checkbooks, and pay it. These dues enable ASHRAE the ability to publish the monthly journals and annual handbook, develop standards that govern our industry, and support our local Central Florida chapter. That is why it is imperative that we stay on top of the ASHRAE invoices.

If you have changed jobs, moved and are not sure of your current dues status, call Society membership at 800-5ASHRAE (527-4723). For membership information and applications, please contact Kenneth White @ 407-532-7060

Thank you for your support.

Kenneth White, Membership Promotion

Newsletter Notes

Tim Willings, PE, fax: (407) 273-4071
 or willingst@mindspring.com

Publication Deadlines

This will be the last issue before the summer break. The first edition of the newsletter (after the summer break) will be published in mid August for the month of September. Please submit material on or before the last "to-press" date of 31-July. To sponsor the Central Florida Chapter Newsletter, and to have your business card published with the newsletter and be posted on the Chapter website, please forward a check in the amount of \$50.00 for the coming year.!

Employment and Education

If your company is looking for individuals with particular skills to fill a position at your firm, or if your company is offering professional technical, continuing education or other learning opportunities of interest to our membership, the Central Florida Chapter of ASHRAE will publish your education or employment add in The Dewpoint at no charge.

Education

Fundamentals of Electrical Systems and Building Electrical Energy Use

The Spacecoast Chapter of ASHRAE is sponsoring an ASHRAE Learning Institute course in beginning on June 14th and held on consecutive Saturdays for three weeks. This course is an opportunity to develop an understanding of the basic principles of electricity, the electrical components and systems used in HVAC.

The course will be held at the the Parrish Health and Fitness Center in south Titusville on Highway 50. The cost for ASHRAE members is \$299 and for non-members is \$349. Attached please find a course application form with additional information.

Mark Terrone
 Spacecoast Chapter Programs
 Phone: (321) 867-6149
 Fax: (321) 867-0544

Optimizing School Design for Hot and Humid Climates

The Florida Solar Energy Center is offering a 10-day advanced building science course titled Optimizing School Design for Hot and Humid Climates starting July 14 and September 15, 2003. Speakers include Joe Lstiburek, Terry Brennan, Neil Moyer, Jim Cummings, and Ron Bailey. Specific topics include avoiding uncontrolled air flows and building depressurization, selection of cooling systems that effectively dehumidify, advanced dehumidification technologies, designing building envelopes to avoid moisture and mold problems, designing schools to optimize indoor environmental quality (including light and sound), meeting ventilation requirements, and optimizing energy efficiency. For additional info see: http://www.fsec.ucf.edu/ed/contin_ed/school.htm

July 14 - 25 2003
 September 15 -26, 2003
 \$659

Mable Flumm
 Registration and Information
 (321) 638-1401
 Jim Cumming
 Program Director, (321) 638-1403

Florida Solar Energy Center
 1679 Clearlake Road
 Cocoa, Florida 32922

Other Florida Solar Energy Center building science courses.

In addition to the schools course, FSEC also has a wide range of other building science course offerings this year, such as Energy Gauge Certification, Green Homes, Commercial Buildings Under Attack by Uncontrolled Air Flow, Energy Efficient Home Building, Window Options for Residences, and Diagnosing Moisture Problems. For additional information, please go to http://www.fsec.ucf.edu/ed/contin_ed/bldg_sci.htm.

Chapter Past Presidents

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. Tristam	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

Employment Opportunities Jones, Edmunds & Associates

www.jonesedmunds.com

Mechanical Engineer

Jones, Edmunds & Associates (JEA) has a career opportunity for a Florida-registered mechanical engineer with 6 to 12 years quality experience in an A/E environment designing and specifying complete facility systems for HVAC, plumbing and fire protection. Join our team of architects and engineers as we expand our services in the commercial, governmental, institutional and industrial markets.. Outstanding growth opportunity involving client interface and team leadership in an environment requiring excellence in engineering. Experience with governmental clients and/or NASA a plus. Send resume in complete confidence to:

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Gainesville, FL 32641
Confidential Fax 352-335-2109
Email: mgonzales@jea.net

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Matern Professional Engineering, P.A. (MPS) is recognized as one of the top MEP firms in the state of Florida, winning design awards for engineering projects, and known for our level of dedication to customer satisfaction and local community involvement. MPE is active in most markets, including airports, schools, universities, healthcare, hotels and resorts, retail, municipal complexes, performing arts, and more. MPE offers competitive pay, excellent benefits, including health, dental, life, disability, sick, holiday and vacation pay. We recently purchased a 17,000 sq. ft. facility that houses our team-oriented environment. We currently have 42 employees and anticipate adding to that number in the near future.

Mechanical Engineer

We are looking to add a talented & experienced Mechanical Engineer to play a key role as a project leader for various project types. Candidate must understand HVAC, fire protection, and plumbing. Other necessary skills include the ability to manage support staff, work as a team member, good communication, both written and oral, and knowledge of Word, Excel and various mechanical programs. Ability to speak in public for presentations, etc. is a plus. Familiarity with Florida codes is also a plus. BS degree (or higher) in Mechanical Engineering and PE license required. Qualified candidates only, please. Fax your resume to (407) 740-0365 or email to accounts@matern.net.

S.G.M. Engineering Inc.

www.sgmengineering.com

S.G.M. Engineering Incorporated is a full-service electronically connected multidisciplinary facilities consulting engineering corporation that has been in business since 1989. Our specialty is Consulting Engineering Design in HVAC, Plumbing, Fire Protection, Electrical, Mechanical, and Construction Administration for Governmental/Commercial Projects.

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- Excellent company benefits.

Email or fax your resume in confidence to barbara@sgmengineering.com.

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Suite 1000
Altamonte Springs, FL 32701
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Fax: 407-767-5772



ASHRAE

Technology for a Better Environment

March 19, 2003

Dear ASHRAE Member:

It is with great pleasure that we invite you to share with us a taste of paradise. Our annual Chapter Regional Conference (CRC) will be held in Puerto Rico from August 13 to the 17. We will then have the opportunity to share with our many friends from the Florida, Puerto Rico and Brazil Chapters and also with some distinguished guest from Society Level.

Our stay and activities will be in the beautiful Wyndham El San Juan Hotel & Casino (<http://www.wyndham.com/hotels/SJUES/main.wnt>). The hotel not only exceeds our needs for our official activities, but also offers a variety of recreational and dining facilities for the whole family. Pools, Jacuzzi and miles of sandy beaches are just waiting for you. For dining you can choose from eight award winning restaurants, relax with cocktails and music in one of the resort's 15 bars, lounges or nightclubs, including a swim-up bar. Live entertainment is featured every night. Or take in the excitement of the glittering casino that never sleeps and play the slots, blackjack, baccarat and poker right next to the main lobby, one of San Juan hottest night spots. (You might even spot a movie or music star)

Wyndham has given us a very special rate of \$135.00 (plus taxes) per night for double occupancy. To make your reservations please call 1-800- 468-2818 and mention that you are part of the ASHRAE CRC 2003. Take the opportunity of this rate and stay a couple of days before or after the activities so you can enjoy more time with your family or that special someone. The deadline for the reservations is June 30, 2003. After this date rates will be subject to change. Call now to secure your space. (The member must make reservations on an individual basis directly with the hotel; neither ASHRAE nor the PR Chapter will handle any reservation). You can also enjoy a special discount on airfare; American Express has finalized a contract with American Airlines for the San Juan CRC where American will offer a 5% discount. The reference number is 0883AJ. You can call American Express and provide this number or go direct to American Airlines by calling 1-800-433-1790

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

A N I N T E R N A T I O N A L O R G A N I Z A T I O N



ASHRAE

Technology for a Better Environment

We have also planned many interesting and fun activities for the spouses and families. Besides the many activities you can enjoy in the hotel, like the pool or the beach, you can also play a match of tennis, visit the Health Club or relax at the Massage and Spa Parlor among others. But while you are here, why not take a tour to explore the many sights and rich history Puerto Rico has to offer? Take a trip back in time while walking along streets and fortresses built many centuries ago at the Old San Juan. Visit the only Rain Forest in the US, El Yunque, or the magnificent underground caves of Las Cavernas de Camuy. Visit the Arecibo Radio Telescope, the largest of its kind and one of the most important research facilities on the face of the earth. (You might recognize it from movies like Jodie Foster's Contact or James Bond Goldeneye). We invite you to visit the Official Web Page of the PR Tourism Company at <http://www.gotopuertorico.com> where you will see all the wonders we have waiting for you.

Later on we will be sending you the agenda of the business meetings and activities of the CRC

We are counting with your assistance to make "**CRC PUERTO RICO 2003**" one of the best ever.

Sincerely,

Guillermo I. Feria
President

Eduardo Varón
Vice-President

Luis Gautier
Treasurer

GIF/YM

CRC 2003

AUGUST 13 TO 17, 2003.
WYNDHAM EL SAN JUAN HOTEL & CASINO
SAN JUAN, PUERTO RICO

Come share with us a taste of paradise.

We invite you to join us in our annual *Chapter Regional Conference* in our beautiful Island of Puerto Rico.

For more information about PR and the hotel please visit the following websites:

<http://www.wyndham.com/hotels/SJUES/main.wnt>

<http://www.gotopuertorico.com/>



*If ever you find a place where the color blue
seems only a day old and water whispers in your ear
You're not dreaming, you're in Puerto Rico*

For CRC information please write to:

feriagi@trane.com; evaron@tecindsales.com; luis_gautier@raymondgroup.com



The Spacecoast Chapter of ASHRAE

Is hosting

FUNDAMENTALS OF ELECTRICAL SYSTEMS AND BUILDING ELECTRICAL ENERGY USE

Beginning on June 14th
On Saturday's



ASHRAE
LEARNING INSTITUTE

Course material from the
ASHRAE Learning Institute

Where: Parrish Health and Fitness Center

2210 Highway 50

Titusville, FL 32780

See web site for directions: <http://parrishmed.com/directions.php>

Dates and June 14, 21 and 28

Times: 8:00 - 17:00 with 1 hour break for lunch (Lunch not included)

Seminar Fees: ASHRAE Members \$299 (include ASHRAE Member Number)
Non-Members \$349

Includes: ASHRAE Course Manual, National Electric Code (99) for reference
Freshly Brewed Coffee, Doughnuts, and Muffins provided

Topics:

- Basic principles of electricity
- Electrical components and systems used in HVAC
- Codes, standards and organizations that affect electrical components and systems
- Different electrical power systems used in buildings
- Requirements and applications of electrical power distribution
- Role of electric utilities and how they bill for electricity
- How to calculate projected electric energy costs
- PDH Credits (24 hrs)

- *Class Size is Limited !*
- *Reservations on First Come First Served basis*
- *Confirmation must be received by June 4*

Spacecoast ASHRAE REGISTRATION FORM

Name: _____	Member No. _____
Company: _____	Phone: _____
Address: _____	Fax: _____
City/St/Zip: _____	
Email: _____	Make Check Payable To: Spacecoast ASHRAE
Member Participants _____ x \$299.00 = _____	Mail w/ Check To:
Non-member Participants _____ x \$349.00 = _____	Spacecoast ASHRAE, c/o Mark Terrone
	PO Box 320235
	Cocoa Beach, FL 32932-0235
TOTAL = _____	

Contacts: Mark Terrone, work: 321-867-6149, home: 321-868-5073, email: Mark.Terrone-1@nasa.gov
Jade Rymkos, work: 321-861-3270, home: 321-383-1152, email: Jade.R.Rymkos@nasa.gov



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Please forward your business card and a check for \$50.00/per card to ASHRAE Central Florida Chapter c/o Rybka, Smith and Ginsler Inc., 300 S. Orange Avenue, Suite 1500, Orlando, FL 32801, Attention: Tim Willings.



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Lake Mary, FL 32746
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Fax (407) 444-6098



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PEGGY PATTERSON
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 Vice President-Central Florida Office Fax: (407) 339-5970



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HVAC ASSOCIATES, INC.
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 Sales Representative Fax: (407) 339-5970

Dwight Abel
 Equipment Sales

Mark Lanier
 Equipment Sales

Chris Bradford
 Equipment Sales

Kenneth White
 Equipment Sales

Mike Patterson
 Controls Sales



Carrier Central Florida
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 Fax: 407-648-4853
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Please forward your business card and a check for \$50.00/per card to ASHRAE Central Florida Chapter c/o Rybka, Smith and Ginsler Inc., 300 S. Orange Avenue, Suite 1500, Orlando, FL 32801, Attention: Tim Willings.



LARRY SNYDER
 Vice President

FLORIDA HYDRONICS, INC.

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 Fax # (407) 834-5699

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www.flhydronics.com
 e-mail: lsnyder@flhydronics.com

Chapter Leadership

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chris.bradford@carrier.utc.com

President Elect: **Dan Cross, PE**
(CRC Alternate) (407) 661-1245
Fax: (407) 660-2277
dacross@rimkus.com

Vice President: **Nelson Long, PE**
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Secretary: **Richard Conklin**
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Fax: (407) 425-1835
rickc@westbrookfl.com

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