

FOG DISPENSER

Golden Gate Chapter



ASHRAE

VOLUME XLIII - NUMBER 2

NOV 2004

November Meeting Notice

Date: Thursday, November 4, 2004

Place: The Carnelian Room
555 California Street, Bank of America
Building, San Francisco
Take an express elevator from the
Montgomery Street entrance level to the 52nd
floor

Schedule:

5:30 PM to 6:30 PM - Social hour
6:30 PM to 7:45 PM - Dinner with
Announcements and Introductions
8:00 PM to 9:00 PM Speaker's Presentation

Cost: \$35 for members and guests reserved by
Monday, November 1 at noon

Students – No charge, but please reserve a spot
Voucher – No charge, but please reserve a spot.
Purchase 8 meetings and get 9 for \$280.00.

\$42 for non-members, late reservations, and at the
door

Please make your reservation via our website.
Visit the Event Calendar at
<http://www.ggashrae.org/calendr.htm>, click on
November 4, and fill out and submit the form. Or fax
the form on page 4 to Debbie Marshall at (510) 639-
3337.

Remember – if you make a reservation and cannot
attend, you need to cancel in advance, or you will be
billed.

November Program

Energy Information & Control Systems for Energy Efficiency and Demand Response



Mary Ann Piette

Energy Information Systems (EIS) refer to software, data acquisition hardware, and communication systems administered by a company, partnership, or collective to provide energy information to commercial building energy managers, facility managers, financial managers and electric utilities. Data types commonly processed by EIS include energy consumption data; building characteristics; building system data, such as heating, ventilation, and air-conditioning (HVAC) and lighting data; weather data; energy price signals; and energy demand-response event information.

New EIS technology is often integrated with Energy Management Control Systems. Some systems allow for participating in Demand Response (DR) programs. Demand Response (DR) is a set of activities to reduce or shift electricity use to improve the electric grid reliability, manage electricity costs, and ensure that customers receive signals that encourage load reduction during times when the electric grid is near its capacity.

Recent research at Lawrence Berkeley National Laboratory has been exploring the relationship between EMCS, EIS, and DR. *Continued on page 2*

Golden Gate Chapter President's Message, November 2004

To the membership of the Golden Gate Chapter of ASHRAE, what have you done lately that you have been really enthusiastic about? Well you should be enthusiastic and proud, as the GG ASHRAE Chapter announces that we will be sponsoring a new student Chapter this year at the California Maritime in Vallejo, CA. The students and their Advisor came to our October Chapter meeting and they have a high level of enthusiasm. In my FOG President's message last month, I noted that we should be mentoring and leaving a legacy in the business and that what we do as professionals and how we present ourselves can spark an interest in the HVAC field and for ASHRAE. This spark of ASHRAE interest was made last April, when Eric Estoista was one of the guest college students who attended our Chapter meeting and saw firsthand, what our organization has to offer. He met other student chapter members from other area colleges and sat and talked with them that evening. He had time to view the product show and many open exhibits at the Pacific Energy Center. He saw the Middle and High School students talk about their science fair projects and then receive awards from the Chapter. Some of these students were repeat winners from past years in lower school grades, who continue to be enthusiastic about math and science. Then the college student chapter winners of GG ASHRAE scholarships were announced and \$6000 total was distributed out to seven of them. This was followed by the Chapter and Regional awards for Design Projects based on TEGA application submissions made by professional engineer members of our Chapter.

The inner fire of interest sparked in Eric and made him enthusiastic about getting a summer internship in the HVAC industry. Then when he started back to college this semester, his enthusiasm had him talking up ASHRAE and creating a student chapter with his fellow students at California Maritime. Then the core group he had convinced to sign up started talking to a Professor, so that they could have a Faculty Advisor and be sanctioned as an official ASHRAE student chapter.

This is youthful enthusiasm on a steady uphill climb of less than 6 months, and it was sparked by who we are as an ASHRAE Chapter and the example that we show to others. We as a Chapter pledge ourselves to our student chapters, to enlighten, advise, teach, provide scholarships, offer encouragement and in some cases hire them as graduates or offer them internships. When the youth of another generation wants to follow where we chose to go, we should welcome them with open arms and nurture their enthusiasms that the Industry continues to expand and ASHRAE becomes stronger. Be a good example of professionalism and take pride in what you do.

ASHRAE members of the Golden Gate Chapter, I challenge all of you to get enthusiastic this year, and help to keep that spark of knowledge glowing brightly in the young engineering students and the next generation, who choose to follow A CAREER PATH IN THE HVAC INDUSTRY AND LOOK TO ASHRAE MEMBERS FOR MENTORING AND ENCOURAGEMENT. Hope to see you at the November 4th meeting. Bring a non-member with you to the Carnelian room, we may create some more sparks.

Respectfully submitted, Jon L. Wintermeyer, Chapter President

November Program continued

A series of tests have been developed to evaluate opportunities for fully Automated Demand Response (Auto-DR) hardware and software technology in large facilities. Tests from 2003 and summer 2004 will be discussed that involve over 40 buildings.

This and related research on DR is sponsored by the California Energy Commission's new PIER Demand Response Research Center. PIER is the Energy Commission's Public Interest Energy Research program.

Mary Ann Piette is a Staff Scientist at Lawrence Berkeley National Laboratory and the Research Director of the PIER Demand Response Research Center. She is also the Deputy Group Leader of the Commercial Buildings Systems Group in the Building Technologies Department at LBNL. She has been a building science researcher at LBNL since 1983 and has extensive experience evaluating the performance of energy efficiency systems and features in large facilities. She has authored over 80 papers relating to energy efficiency and building performance. Her recent work emphasizes building controls, commissioning, diagnostics, energy information systems, and demand response. She has a Masters of Science Degree in Mechanical Engineering from UC Berkeley and a Licensiate from the Chalmers University of Technology in Gothenburg, Sweden.



Oakland Engineering Sales Group

The Trane Company proudly supports ASHRAE Research

ASHRAE Research Report

The 2004-05 ASHRAE Research year is off to a great start! Many of you have already given, either through me, or directly to ASHRAE Research when renewing your national membership. Thank you for your donation. To those that have not donated, I look forward to talking with you. Remember, all donations are tax deductible, and you may use a check or credit card. Now you can make your donation online at www.ashrae.org.

The following corporations and individuals have donated on the honor level or above for this year.

Corporate Honor Roll Investors (\$150.00 or more)

Norman S. Wright

TRANE Company Oakland

Individual Honor Roll Investors (\$100.00 or more)

Edgar DeGuzman

Robert Marcial

Jon Wintermeyer

Bob Levi

Cory Palmer

Glenn Friedman

If you contributed at the "Honor Roll" level last year, you are entitled to a gift. A medallion, picturing a prominent HVACR engineer is available as ASHRAE's way of saying thank you. If you would like your medallion or if you are interested in making a donation, please contact:

Johanna Gustafsson
(925) 417-7218
johanna@york.com

Chapter Technology Transfer Committee (CTTC)

(Formerly the Technical, Energy and Government Affairs (TEGA) Committee)

By Scott Wayland, ASHRAE Golden Gate Chapter CTTC Chair

Effective July 2004 the ASHRAE Board of Directors merged the functions of the TEGA and Chapter Programs Committees to form one committee - the Chapter Technology Transfer Committee (CTTC). CTTC is a General Standing Committee of the Society and operates under the direction of the Board of Directors and Members Council. At the chapter level CTTC is a mandatory standing committee.

This committee responsibility is to provide efficient and effective transfer of current and relevant information throughout the HVAC&R industry to and from the chapters. The committee shall develop and maintain high quality and readily available tools to enable chapters to offer informative and attractive industry-related information and programs to all target segments within the HVAC&R industry.

See the following website for more information:

<http://www.ashrae.org/template/AssetDetail/assetid/25424>

So, what does this mean for the Chapters? Well, it's going to take us a little time to adopt the new structure. The programs have been organized by the board. We will continue to work on how to implement this change. In the meantime, you can still count on me to be the conduit between you and society. My responsibilities still include: informing chapter members of available ASHRAE technical material; encourage chapter members participation in technical activities at local, regional and society level; provide chapter input to Society on Standards, Publications, Research, handbook, and Position Documents and the Technology Council (TCs). CTTC also assists the chapters in: developing local and regional recognition of ASHRAE's authoritative position; responding to public issues within ASHRAE's scope; developing liaisons with the local community regarding technical issues. CTTC also administers awards programs: Technology Awards; Government Activities Awards; Dan Mills Award.

Technology Awards

We are awaiting the results from the 2004 Society competition currently in the hands of the judging panel. There are three entries from our members: Jeff Blaevoet, Mark Redmond and Tony Costa. We will be hearing from Society early next month so stay tuned...

The 2005 Chapter Awards will be due in February 2005. Go to the following links for more info:

<http://www.ashrae.org/template/AssetDetail/assetid/25447>

<http://xp20.ashrae.org/STANDCOM/ShortForm.pdf>

Join the TEGA / CTTC Committee

If you like to assist the chapter and get involved with ASHRAE, the TEGA / CTTC committee would like your help. Please contact Scott Wayland at sewayland@comcast.net

Minutes of October 7, 2004 Chapter Meeting

Sinbad's Restaurant, San Francisco

- Meeting called to order at 6:40 p.m. by Jon Wintermeyer. Welcome to the first meeting of the 2004-2005 season of the Golden Gate Chapter.
- Self introductions.
- The meeting minutes from the June 3, 2004 meeting were approved unanimously.
- The Chapter welcomed the California Maritime Academy students in attendance. Golden Gate ASHRAE is excited that it will sponsor a new ASHRAE Student Chapter at the Academy this year. More information will follow in later Fog Dispensers when the Student Chapter paperwork is finalized.
- Don Nurisso received a Certificate of Appreciation for his work on last year's seminar on building commissioning.
- Johanna Gustaffson, Resource Promotion Chair, appealed for contributions to ASHRAE Resource Promotion. She thanked the Chapter for its \$4,000 donation to ASHRAE RP for the 2003-04 year and mentioned some of last year's major contributors.
- Jon Wintermeyer announced the meeting topics and locations for November and December. See the Chapter web site for details.
- Ten minute break.
- Cory Palmer introduced the evening's speaker, Nick Des Champs.
- Mr. Des Champs gave an interesting and informative talk on "Air Conditioning Techniques Using Heat Recovery and Indirect Evaporative Cooling."
- The raffle game will resume at the November meeting.
- A motion was made to adjourn the meeting, and Jon Wintermeyer adjourned the meeting at 9:00 p.m.

Respectfully submitted,
Cory Palmer, President-Elect

Change of Address?

All members who wish to make changes in their membership data (change of email address, change of address or change of employer are the most common) must make those changes through the national ASHRAE site <http://www.ashrae.org>.

THE GOLDEN GATE CHAPTER CANNOT MAKE THESE CHANGES FOR YOU.

In order to change your membership data, you will need your ASHRAE member number and confidential PIN number, both of which are on the ASHRAE card issued to you each year. Go to the Change of Address link of the ASHRAE website, log in, then to Membership Records. If you don't have your PIN or membership card, please call Customer Service Section: 1-800-5-ASHRAE (US and Canada).

From the Chapter Historian

Authored By Carl H. Jordan, Life Member/Fellow and GGASHRAE Historian

Clyde Bentley – GGASHRAE Biography

Clyde E. Bentley was at the heart of an engineering dynasty. His grandfather was a land surveyor. His father was a civil and mining engineer. His son, Donald, continued Clyde's engineering practice and his other son, Robert, was an architect in the organization. His grandson, Clayton, was involved in the business aspects of the firm. Another grandson, Grant, contributed to the computerization of the business. Granddaughter Elizabeth did the marketing and grandson William was also involved.

ASHRAE members who were at one time a part of Bentley Engineers include Norman MacRitchie, Kevin Dowling, Rajinder Jandu, Cy Hansen, Frank Gordon, Bob Voelz and Steve Taylor.

Clyde was born in 1898 in Modesto. He retired in 1976 at the age of 78 and died in 1989 at the age of 91.

Clyde earned his B.S. in engineering from Cal in 1923 after serving in the Army during World War I. He was in the ROTC at Cal. He became a registered P.E. in civil, mechanical and electrical engineering.

He started his engineering practice at 216 Pine St. in 1935. It later moved to 405 Sansome, 49 Fremont and 149 New Montgomery. The firm incorporated in 1966. Bentley Engineers was purchased by Enron around 1998.

The firm designed the first high-velocity double-duct system. It was at Mare Island. Among the many significant projects are Letterman and Oak Knoll military hospitals, Alta Bates Hospital, projects at U.C. Berkeley and Davis, and projects at the San Francisco and Oakland Airports.

Clyde was a founding member of the Cal Engineering Alumni Society. He was its president in 1962 and received their Distinguished Alumni Award.

He was a member of the Consulting Engineers Association and the S.F. Bay Area Engineering Council. He was chairman of Engineers Week, president of the Engineers Club and president of the Building Industry Conference Board (from which he received an award). He also received a commendation award for a Navy project and a medal from the Society of American Military Engineers.

Clyde joined ASHVE in 1937, was our Chapter president in 1941-42. He became a Life Member. He was vice-chairman of our Society's summer meeting in San Francisco in 1941. You will hear more about that meeting in a future article. Watch for it!

(Information from interviews with and written information from Donald Bentley.)

Student Activities

By Gary Harbison

In August I had the pleasure of traveling to the campus of California State Maritime Academy and meeting with Professor Stephen Pronchick. We talked about the possibility of forming a student branch and discussed how vital HVAC systems are to ship board operation. After that I was taken on a tour of the facility and I was tremendously impressed with the lab facilities. They meld the theoretical with practical applications, in highly demanding and no doubt stressful situations. Professor Pronchick and students then proceeded to move forward on starting our newest student branch, had a very enjoyable dinner with us in October, and the proscribed paperwork to make this happen is being processed at this time.

Secondly, I am pleased to announce the Vice-Chairmen of the Student Activities Committee, Mr. Brett Wright and Ms. Shruti Narayan. In addition to our core responsibilities of monitoring ASHRAE travel grants, Golden Gate Chapter scholarships, and the Science Fair we are going to expand our outreach to area high schools and become more personally involved with the local college and university community.

ASHRAE GOLDEN GATE CHAPTER - DINNER RESERVATION

For Thursday, November 4th

Reservations

Please reserve prior to **Monday, November 1st at noon.**

Please reserve on-line by visiting <http://www.ggashrae.org/calendr.htm>, click on November 4, fill out the form and send. Or fill out and FAX this page to Debbie Marshall at (510) 639-3337.

Members with vouchers – you too must send in your reservation. We need to know how many meals to request. Please cancel your reservation if you cannot attend. Cancellations must be received by November 1st.

Payment

You can pay for meeting vouchers and dinner reservations using your credit card!

Purchase your 2004-2005 Meeting Voucher now! If you have a voucher and miss a meeting, you can bring a guest to the next meeting and your guest can attend for free! This offer is only good for the October 2004 - June 2005 season and the "guest for free" option will not carry over to the 2005-2006 season. The Chapter has set up a PayPal account. You may now pay for your dinner meetings using your credit card if you have a PayPal account. It's a very simple process, and the instructions are on the website at <http://www.ggashrae.org/announc.html>

- There will **NOT** be any service charges to you from PayPal nor the Chapter.
- The Chapter does **NOT** see your private card nor bank information.
- The Chapter does **NOT** even see the last four digits of your credit card number.
- You can cancel your personal PayPal account whenever you want.

Several members have already paid for their dinner vouchers using PayPal. If you have any questions about this process, please contact Robert Marcial at rmarcial@berkeley.edu.

NOTE: At the Chapter meetings we will have a list of those that have paid through PayPal, but we will not be accepting credit card payments at the meeting. **All credit card payments MUST go through PayPal. If you want to pay at the meeting, it's business as usual...cash or checks only.**

For Faxed reservations, please fill out the following, and FAX this page to Debbie Marshall at (510) 639-3337:

FROM: _____

COMPANY: _____ Phone: _____

Please make _____ reservation(s) for the following people (fill in names below):

_____	_____
_____	_____
_____	_____



Left: Tracy Cornish and Todd Gottshall of Taylor Engineering and friend.



Right: Cory Palmer introduces the evening's speaker



Left: Don Nurrisso receives an award for his help with last year's seminar.



Right: Chapter President Jon Wintermeyer



Left: Representatives of California Maritime Academy's new student chapter



Right: Resource Promotion Chair Johanna Gustafsson



Left: Edgar Deguzman, Julie Heidbreder, and Sue MacLoughlin



Right: Nick Des Champs talks about evaporative cooling and heat recovery