

FOG DISPENSER

Golden Gate Chapter



ASHRAE

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MAR 2005

March Meeting Details

Joint meeting in San Rafael with the Redwood Empire, (but not at the same location as last year).

Date: Thursday, March 3, 2005

Place: Four Points by Sheraton, San Rafael
1010 Northgate Drive, San Rafael, CA 94903
415-479-8800

Schedule:

5:30 – 6:30 PM - Registration and social hour
6:30 - 7:30 PM - Dinner with
Announcements and Introductions
7:30 - 7:45 PM Break
7:45 – 9:00 Main program

Cost: \$35 for members and guests reserved by
Monday, February 28 at noon

Students – No charge, but please reserve a spot
Voucher – No additional 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 March 3, and fill out and submit the form.

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

March Program

Cal Poly's Entry for the 2005 Solar Decathlon



Speaker: Jesse Maddren
Associate Professor

Mechanical Engineering Department
Cal Poly State University, San Luis Obispo

The 2005 Solar Decathlon is an international competition sponsored by the Department of Energy in association with private-sector sponsors BP Solar, The Home Depot, and the American Institute of Architects. The objective of the competition is to build a house in which the daily energy needs of the household are completely provided by energy from the sun. Cal Poly was selected as one of nineteen teams to participate in the competition in the fall of 2005. Each team will build a 500-800 square foot house and only the solar radiation incident on the house will be used to generate the thermal, electrical and mechanical power needed to compete in the ten (thus the name "decathlon") contests. The house will be built in San Luis Obispo and then taken apart, transported to Washington, D.C. and reassembled on the National Mall for the competition. The presentation will give an overview of the competition and the current progress of the Cal Poly team. You can also find out more about the competition on the web (Department of Energy web site):

http://www.eere.energy.gov/solar_decathlon/.

Golden Gate Chapter President's Message, March 2005

Are you ready now for some baseball, minus all the steroid stories, of course? The football season has come to another successful close in my opinion. I was the only Patriots fan attending the February Chapter meeting and verbally predicted who was going to win. The start of baseball season has always signaled that spring is here with summer not far behind. It also means that if you have not broken your new year's resolution yet, you're in the minority. Unless, of course, you understand COMMITMENT and that you do have control of your destiny, Pat's Coach Belichick has had his team on track for this, do you? Even after each season, this team is busy retooling and working on improvements for the next year. I hope you are too.

On the subject of commitment, did you remember to get your Chapter [CTTC](#) application filled in and filed for consideration of one of your designs? Have you signed up yet for the [Chapter seminar at the PEC on the 28th of February](#)? What about one of the offerings at the PG&E Energy Center this spring? You can check out the classes at www.pge.com/pec/classes. Maybe you're going back to college in the evenings or for the summer to work on an advanced degree -- now that will really take commitment. Maybe you've decided to teach a class and impart some of your knowledge and skills to the next generation of engineers that will enter the HVAC industry.

In our ever-changing industry of HVAC, you must be ready to learn new skills and stay current with code changes and technology improvements. Many of the states in which I have my P.E. license require for renewal, besides a check, proof that I can show what continuing education classes I have taken since my last renewal. Even without this requirement, we should all be working on becoming a more complete and resourceful engineer. That takes commitment.

As an ASHRAE design professional, you cannot design the systems and specify equipment you used five or ten years ago, without being passed over by clients looking for a professional that is forward thinking and capable of designing a system for their building that will qualify for the LEED™ rating level they want.

The State of California is requiring all of their new and major renovation projects to be at the LEED™ Silver level, because they understand it is their building and they want to be in it for a long time. Are you ready to be competitive and capable of qualifying to be selected for one of these California State building projects or a private client with similar goals? Make the commitment to be a qualified professional in ASHRAE, work for Chapter, attend the meetings, serve on a [committee](#) and get involved.

*Respectfully submitted,
Jon L. Wintermeyer, Chapter President*

March Program continued – Jesse Maddren Biography

Jesse Maddren is an associate professor in the Mechanical Engineering Department at Cal Poly State University in San Luis Obispo. He started at Cal Poly in 1999 and teaches classes in heat transfer, fluid mechanics, thermal system design, and air-conditioning. His more recent work experience includes five years teaching at San Jose State University (1995-1999), summer research at NASA Ames Research Center in Mountain View (1997, 1998), and a summer at Critchfield Mechanical Inc. in Menlo Park (1999). Dr. Maddren received his BS (1985), MS (1988) and PhD (1994) degrees in Mechanical Engineering from the University of California, Santa Barbara.

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ASHRAE Research Report

Johanna Gustafsson, Resource Promotion Chair, GG ASHRAE

At the monthly meetings please take notice of the table cards. The cards list all individual and corporation honor roll donors for this year.

We have reached 29% of our chapter's annual goal for Research. Please remind your colleagues and clients that contribution to ASHRAE Research is a great way to give back to our industry. Thanks to everyone who has contributed so far this year. We are always looking for corporate support, especially corporations with "matching gifts" programs. Please contact the Research Chair with potential corporate contributor contact information.

The following have donated on the honor level in the last month. If you have donated and have not been recognized please notify me. I want to make sure to recognize everyone who has donated.

Corporate Honor Roll Investor (\$250+)

ACCO Engineered Systems

Thanks to everyone who has donated!

If you have any questions or would like to donate please contact:

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

April Product Show

This year's annual Product Show will be Thursday, April 7 at the Pacific Energy Center. Dan Droubay, the Product Show Chair, is registering local vendors for table-top displays. Dan can be reached at (925) 417-7230, or dan.droubay@york.com.

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)

Obituary

Life member Irving Alger passed away in Sacramento on Feb. 5, 2005. He and Barbara were married for 63 years. Immediately after graduating from U.C. Berkeley he went to work for G.M. & T.R. Simonson in San Francisco. During WWII he worked for two years at MarinShip in Sausalito. He then returned to Simonson where he completed his professional career. He was our Chapter President during 1971-1972. He was a well respected engineer, a perfect gentleman and a truly nice guy.

Submitted by Carl H. Jordan

2004/2005 Golden Gate Chapter Seminar

Avoiding Indoor Air Quality Problems in Marine Climates

Date & Time: Monday, February 28, 2005, 9 AM to 4 PM
Location: Pacific Energy Center, 850 Howard Street (between 4th and 5th St.), San Francisco
Speaker: Joe Lstiburek, Ph.D., P. Eng

Please visit <http://ggashrae.org/seminar/> for registration and payment options.

Note that attendance is limited to 45 people total, so please reserve your spot today!

Program Description

California has one of the largest spread in climates of any state in the union—from the hot, dry desert to the cold alpine climate—but most of the people in the Golden State live at or near the coast in what is known as the marine climate. The California marine climates are mild and often have low HVAC requirements to provide comfort, but the same qualities that make them relatively comfortable can make them difficult to design in from a moisture durability perspective.

Designing and constructing buildings in marine climates is difficult for two main reasons: the miserable climate and the lack of relevant information. Most code, manufacturer, supplier and professional literature presents a cold climate basis (“cold climate chauvinism”).

Moisture and related indoor air quality problems have become a major source of lost revenues, management frustration, litigation, image problems, lost clients, and related health problems. The building enclosure and mechanical systems interact with and influence interior environmental conditions with serious consequences. In this presentation common industry practices are challenged and turned on their head.

Design of walls, claddings, roofs, mechanical systems and interior finishes will be discussed as they relate to moisture control, durability and indoor air quality. Diagnostic procedures and remediation techniques will also be discussed.

While the focus of this presentation will be on the marine climates, comparisons will be made with other climates of interest. Building problems and their solutions will be related to operational concerns and monetary constraints. Case studies will be utilized to illustrate the key issues.

Joseph Lstiburek biography

Joseph Lstiburek, B.A.Sc., M.Eng., Ph.D., P.Eng., is a principal of Building Science Corporation. He is a forensic engineer who investigates building failures and is internationally recognized as an authority on moisture related building problems and indoor air quality. He is a member of ASTM and the past chairman of ASTM E241 - Increasing the Durability of Building Assemblies from Moisture Induced Damage. He is a contributor and reviewer of several chapters of ASHRAE Fundamentals. He is a voting member of ASHRAE SSPC 62.2 – Ventilation for Acceptable Indoor Air Quality. He is also a voting member of ASHRAE Technical Committee 5.12 Ventilation Requirements and Infiltration and ASHRAE Technical Committee 4.4 Building Materials and Building Envelope Performance.

Dr. Lstiburek has appeared on PBS NOVA (“Can buildings make you sick?”) and is the author of numerous books and technical papers on building science, indoor air quality and durability.

Student Activities

Gary Harbison

We had a nice turnout of students and professors at the February meeting, and thanks to you members who were good enough to sponsor a student that evening. Of import is the fact that at the Winter Meeting in Orlando, the California Maritime Academy was officially approved by national and accepted as a Student Chapter. We are thinking of an affair at the School in Fall 2005 to celebrate. Details to follow.

Secondly, I want to thank Professor Gail Brager of UC Berkeley, and Professor Stephen Pronchick of the California Maritime Academy for their continued involvement and support of our student chapters.

Donald G. Bryant and Eric Thor Andresen Memorial Scholarships.

Student scholarship applications are due on March 25th, with all the details on the website. In addition, students please take note that The Board has the option of awarding multiple awards other than these two main Memorial Scholarships, based upon content of the applications. If you have any questions on the process, please call me at work: 510-266-7806.

Bay Area Science Fair

Bay Area Science Fair judging is March 17th. We have a group scheduled to do the judging, but if any of the members want to come and join the fun, please give me a call and I will give you the details.

In this regard, note that both The Science Fair and Scholarship Awards will be at the April Chapter meeting.

From the Chapter Historian

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

SLOE and DRY GINN BROTHERS

These names get your attention, don't they? When, in 1957, I first heard these names I was sure that I was being teased. They couldn't be real people. Or could they?

They could. Any they were! Born on April Fools' Day in 1925, they were identical twins. LeRoy Ginn (Dry) and LeRoyce Ginn (Sloe). They got their nicknames in the Marine Corps where they studied electronics.

Their families were experiencing hard times and the brothers sent money home to help out. They established strong family values and worked hard to set proper examples. Their two families shared frequent times together.

When they returned from the military they finished their educations. Three brothers became P.E.s; five brothers became contractors. They have numerous patents and have been involved in a number of businesses.

Sometimes together and sometimes not, they worked for Honeywell, Johnson, Robertshaw, Barber-Coleman/Yamas, Pneumatic Control Systems (PCS) and Universal Pneumatics Co. PCS was purchased by Yamas.

When Dick Charles built his house in about 1956, Ed Long of Honeywell insisted that a Honeywell Cronotherm be installed. Dry and Sloe did the installation.

Dry died in 2003; Sloe in Oct. 2004. Sloe's son, LeRoyce Jr. (Lee), and Dry's son, Larry, now operate Energy Logics. They are both ASHRAE members.

(Information from Lee and Larry Ginn and Dick Charles.)

Minutes of GG Chapter Joint Meeting with USGBC Feb 3, 2005

Scott's Seafood Restaurant, Jack London Square, Oakland

- Called to order at 6:30 PM by Chapter President Jon Wintermeyer
 - Self Introductions- All the ASHRAE members in attendance were recognized, along with members from the Northern California Chapter of USGBC organization, College Students and invited guests.
 - Student sponsors for the evening were C&B Engineering, Guttman and Blaevoet, Salzer Pumps and Pacific Energy Center, and Jon recognized and thanked them for their support.
 - Jon read a memo from the Region X DRC, Don Brandt about how ANY ASHRAE Member can make a proposal for development of a standard or guideline, and this process will no longer be done at the CRC.
 - Jon reminded members that the March 3rd meeting moves to the North Bay for the annual joint meeting with the Redwood Empire Section at the Four Points Sheraton.
 - Jon noted that there were PEC calendars available for taking and that the current semester has just begun at PEC that has several HVAC, Architecture, Renewables and Commissioning Classes going on.
 - Johanna Gusatafsson, Research Promotion Chair, spoke about ASHRAE research for the Golden Gate Chapter and this year's goal was and noted that monies are very slow in coming in and reminded all to please be generous.
 - Jon substituted in for Max Sherman Chair for Chapter Seminar and spoke about the February 28th all-day seminar to be held at the PG&E Energy Center from 9 AM to 4 PM. The Topic will be on "Avoiding Indoor Air Quality Problems in Marine Climates" and the speaker is nationally known expert on the subject, Joseph Lstiburek, P.E., Principal of Building Science Corporation. Seating is limited to 45 for the room, so get your reservation in now for the pre-valentine day discount. Cost for ASHRAE member is \$225 prior to 2/14 and \$250 after and Non-members are \$250 prior to 2/14 and \$275 after. See website for additional information.
 - Gary Harbison, Student Activities Chair updated the Chapter with what the student chapter activities have been doing lately and that Chapter scholarships should be applied for now, as these are awarded at the April Chapter meeting.
 - Dennis Thompson, Past Chapter President and Cal Poly Alumnus spoke to promote the HVAC program at Cal Poly, San Luis Obispo
 - Scott Wayland, CTT Committee Chair, spoke about the Chapter Technology Awards and how to submit them and that forms were available at the registration table for all interested members and invited interested members to contact him.
 - Jon substituted in for Kirk Peterson, Golf Chair and spoke about the annual golf outing this summer on July 8th in Walnut Creek, CA at the Boundary Oaks Course.
 - Chapter President Jon Wintermeyer, was Moderator for the Panel Discussion program. Jon spoke briefly on the topic and outline for the evening on "Operable Windows" with specific project focus on the William & Flora Hewlett Foundation building in Menlo Park, CA and then he introduced the four panelists as follows:
 - Bill Bocook, AIA, B. H. Bocook Architect, Inc.
 - Kailasam Senthil, P. E., Critchfield Mechanical Contractors
 - Sharon Refvem, AIA, Hawley Peterson & Snyder Architects
 - Andres Anaya, Hewlett Foundation
- The program started with a slide and photo presentation by Bill Bocook about the Hewlett Foundation Building. Then the panelists in turn were given four job related questions about the Project and time to answer and a final general question. Jon presented the gift certificates to the panelists at the end of the program. Due to time constraints, Members were invited to talk with the speakers after the raffle at the conclusion of the meeting.
- The Marble Draw Raffle was run by Chairperson Kristin Vogt. The prizes for the evening were donated by Seimens. The winner of the top prize which was a loaded gift basket was won by Allan Daly. However he did not pick out the lucky Marble and the money pot remains at over \$500 dollars and carries over to the April meeting as the March meeting will be in San Rafael with the Redwood Empire Section.
 - Meeting adjourned at 8:55 p.m.

Minutes by Jon Wintermeyer, for Secretary Glenn Freidman

Marble Draw

Kristin Vogt, Marble Game Chair

We raised nearly \$300 at the February Chapter meeting and Allan Daly won 1st prize and a chance at the marble draw. He did not win, so the money in our pot is \$641 - keeping the prize at \$500. Siemens Building Technologies generously donated the raffle prizes in February. The next marble draw will occur at the March meeting in San Rafael.

Operable Windows: A Panel Discussion

Tuesday, March 8, 9:00 AM to 1:00 PM

Pacific Energy Center, 850 Howard Street (between 4th and 5th St.), San Francisco

This half-day class will include several speakers' presentations on operable window issues from several perspectives. The speakers and their presentations are:

- Gail Brager of the University of California, Berkeley on "Thermal Comfort in Naturally Ventilated Buildings"
- Jeff Maddox of RJA Group on "Smoke Control in Buildings with Operable Windows"
- Maureen O'Leary of Sasaki Associates, Inc. on "The Ins and Outs of Operable Windows: Different Solutions to an Array of Projects"
- Karl Lyndon and Pete Alspach of ARUP on "Natural Ventilation Systems in the New California Academy of Science"
- Neal DeSnoo, Energy Officer for the City of Berkeley, will be part of the panel to discuss the Berkeley Civic Center, a building with operable windows that has been in use for over a year and that has undergone a post-occupancy evaluation.

Each panel member will give a 30-minute presentation. After all panel members have spoken, there will be a question-and-answer session. The questions will come from the moderator Phil Haves of Lawrence Berkeley National Laboratory and from the audience.

This program is free-of-charge, but registration is required. Register for this program and learn more about the speakers and their presentations at www.pge.com/pec/classes.

Employment Opportunities

Guttman & Blaevoet is a successful San Francisco consulting engineer firm serving premier architects & building owners seeks a Project Manager with at least 5 years of HVAC consulting experience and an Engineer with at least 2 years relevant experience. Successful candidates will have a strong academic background, have excellent communication skills, and be highly motivated. Experience with energy modeling is desirable.

Email cover letters and resumes to restacio@gb-eng.com

Please no phone calls.

Employment Opportunities, Continued

California Hydronics Corporation (www.calhydro.com) is a fast-paced, innovative company dealing with specialized products in the HVAC industry, our company produces pre-fabricated pumping and heat transfer systems for commercial building projects. California Hydronics Corp., located in Hayward, CA, is an Equal Opportunity Employer and does not discriminate because of Race, Religion, Color, Age, Gender, Marital Status, Sexual Orientation, National Origin, Physical or Mental Disability or Vietnam Era or Disabled Veteran Status, or any other categories protected by law.

Immediate opening for someone with the following qualifications:

- 5 years service and/or sales experience in hydronics equipment and applications (or highly related field) with an understanding of the basic components involved such as plumbing, boilers, pumps, valves
- a basic level of comprehension of mechanical engineering and math skills is required and technical ability to gather customer requirements and propose appropriate products and/or solutions.
- ability to clearly communicate technical and non-technical information to customers and company staff, both verbally and in writing is an essential.

Fax resume to (510) 264-3499 or email to: hr@calhydro.com