

FOG DISPENSER

Golden Gate Chapter



ASHRAE

VOLUME XXXX - NUMBER 9

JUNE 2001

June Meeting Notice

Date: Thursday, June 7 at 5:00 p.m.

Place: The Banker's Club,
Bank of America Building
55th floor, 555 California Street,
San Francisco.

Cost: \$35 for GGASHRAE members
and guests **w/ advance reservations**
\$37 for non-members and **all** w/o
reservations.

Time:

5:00 - 6:30 p.m. Social hour
6:30 - 7:15 p.m. Dinner
7:15 p.m. The Chapter salutes its
Volunteers!
7:40 p.m. Installation of next year's
chapter officers
7:50 p.m. Guest speaker, Jacques Leslie

All reservations must be received by Jon Wintermeyer by e-mail (jon@wastaffing.com) or fax (415-788-6040) by **Monday, June 2**. Please provide him your name, phone number, total number of reservations and the names of those in your party.

It's **Spouse night** at Golden Gate ASHRAE! All Spouses/Partners drink for free during Social Hour!

June Program:

Speaker Jacques Leslie

Running Dry: What Happens When the World
Runs Short of Freshwater?

Jacques Leslie's July, 2000 cover story in Harper's Magazine on global water scarcity was selected for inclusion in The Best American Science Writing 2001, to be published in September by Ecco Press, and was a finalist for the John B. Oakes Award for Distinguished Environmental Journalism.



As a Los Angeles Times foreign correspondent in the 1970s, he won two national awards for his reporting from Vietnam, and he wrote a book about his attraction to war called The Mark. He has written for most of the nation's leading magazines, including The New York Times Magazine, The Atlantic, and Wired, where he is a Contributing Writer. He is now writing a book on dams for Farrar, Straus & Giroux.

Golden Gate Chapter President's Message

June 2001

ASHRAE members ask for more fossil fuels or should they close the window?

To all ASHRAE members who design building systems, let me give you a simple test. Suppose it is wintertime and you have set the heating system to maximum heat and you are still cold. Would you: A. Buy a blast furnace B. Burn the house down to keep warm or C. Get up and close the windows. There is much of rhetoric from the politicians in Washington regarding energy efficiency and as a concerned ASHRAE member I would like you to consider:

- Buildings under construction today will likely last 50-100 years.
- Much of the energy expenditure for buildings is wasted. Current technologies and practices offer cost-effective opportunities to reduce energy use in new and existing buildings by 30 to 70%.¹
- Total primary energy use per capita in the United States in 2000 was almost identical to that in 1973. Over the same 27-year period economic output (GDP) per capita increased 74 percent.¹
- National energy intensity (energy use per unit of GDP) fell 42 percent between 1973 and 2000. About three-quarters of this decline is attributable to real energy efficiency improvements and about one-quarter is due to structural changes and fuel switching.¹
- Even though the United States is much more energy-efficient today than it was 25 years ago, there is still enormous potential for cost-effective energy savings. Some newer energy-efficiency measures have barely begun to be adopted. And other efficiency measures will be developed and commercialized in coming years, thereby adding to our "energy efficiency resource".¹
- The average efficiency rating of new central air conditioners increased 56% from 7.0 SEER in 1976 to 10.9 SEER in 1998.¹
- ACEEE estimates that adopting a comprehensive set of policies for advancing energy efficiency could lower national energy use by 18 percent in 2010 and 33 percent in 2020. These policies, along with policies to advance renewable energy, could dramatically lower U.S. carbon dioxide emissions while saving consumers and business \$500 billion net during 2000-2020.¹

As you consider the significance of you next system design think of the issues that loom for the future:

- Your building system's design contribution to the climate change and the long-term costs and value.
- What sort of environment will you enjoy in 20 years? Will the 21st century United States be a better or worst place to work and live

The current administration's energy plan is clearly undervaluing the role that energy efficiency can play. The increase in energy efficiency decreases pollutant emission and the risk of power shortage. Increased energy efficiency is also strongly supported by the public unlike drilling oil in environmentally sensitive area, or building nuclear or coal power plants. ASHRAE members, increasing energy efficiency is MORE than just a personal virtue! It is part of your job!

Respectfully yours
Benjamin Sun
GGASHRAE President

1. ACEEE (American Council for an Energy-Efficient Economy)

June Meeting Program

As many as 1.2 billion people--one out of five on the globe--lack access to clean drinking water. Nearly 3 billion live without sanitation: no underground sewage, toilets, or even latrines. More than 5 million people a year die of easily preventable waterborne diseases such as diarrhea, dysentery, and cholera, in fact, most disease in the developing world is water-related.

In many developing countries water scarcity is the most significant component of environmental degradation, which in turn is an underlying cause of mass migration, peasant revolt, and urban insurrection. Even worse, water scarcity could eventually affect global food supply, causing intensified hunger and starvation in the poorest countries.

Jacques Leslie's talk will address water scarcity's impact on irrigation, groundwater depletion, the mixed impact of dams, domestic and international political tensions, and the impact of climate change on water supply.

Ending of the 2000-2001 ASHRAE year!

It's **Spouse night** at Golden Gate ASHRAE!

June is a very special month as it is the close of our ASHRAE year. Join us on June 7, 2001 for a very special evening as we recognize those chapter members who have given their time and effort to the chapter over the past year, install the new slate of officers for next year, and last but not least, give a special ASHRAE thanks to our spouses and partners for letting ASHRAE have you every first Thursday of the month.

2000-2001 has been a tremendous year for the Golden Gate Chapter of ASHRAE! Your Board requests your presence for a very special evening at a very unique venue and hopes that you will bring your spouse/partner so we can let them know how much we appreciate them.

Change of Address?

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

ASHRAE GOLDEN GATE CHAPTER - DINNER RESERVATION FAX

For June 7, 2001

Email: John Wintermeyer jon@wastaffing.com *preferred method of communication!!!!*

FAX: (415-788-6040)

Please cancel your reservation if you cannot attend the meeting.

Cancellations must be received by the Tuesday prior to the meeting.

FROM: _____

COMPANY: _____ Phone: _____

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

EMPLOYMENT OPPORTUNITIES

Taylor Engineering is looking for HVAC design engineers to join us as we expand. We specialize in innovative large building HVAC and control system design, energy and indoor air quality analysis, and system commissioning. Current projects include the new GAP Headquarters building in San Francisco, GAP San Bruno Phase II, Electronic Arts II in Redwood City, Palm Inc. Campus in San Jose and the Title-24 Energy Standard for 2005. Prospective candidates must have a degree in mechanical engineering or a related degree, a thorough understanding of thermodynamics and fluid flow fundamentals and excellent presentation and writing skills. Candidates must be PC literate and have a working knowledge of Windows, Word, Excel, and AutoCAD. Design/build or field experience is also desirable. Excellent work environment in Alameda. High salaries for top performers.

Send resume to:

Glenn Friedman, Taylor Engineering, 1305 Marina Village Parkway, Suite 101, Alameda, CA

Tel: (510) 749-9135. Fax: 510-749-9136

E-mail: gfriedman@taylor-engineering.com

California Hydronics Corporation

Hayward, CA

www.calhydro.com

Current Job Opening

Position: Application Engineer

Job Description: Inside design assistance to mechanical, plumbing and service contractors. You would be representing the largest, most recognized and respected leading supplier of fluid handling products in Northern California and Western Nevada.

Qualifications Desired:

- Engineered HVAC products and system knowledge
- Engineered plumbing products and system knowledge
- Self-motivated individual interested in new challenges
- Knowledge of engineers and contractors in the building industry
- Individual desiring long term career growth within our organization
- College education preferred

What We Offer:

- Competitive salary
- Full benefits package
- 401K plan
- Training and education to keep you one of the best in the industry

E-mail resumes to: jjobs@calhydro.com

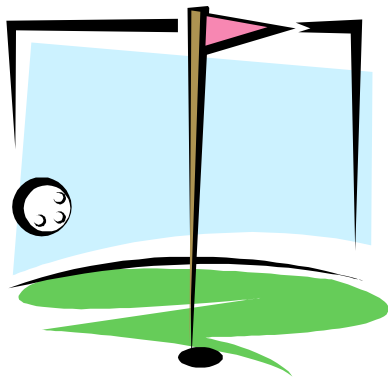
PROPOSED CHAPTER PROGRAMS 2001 – 2002 BALLOT SHEET

PLEASE RETURN BY JUNE 15TH TO: BOB LEVI, FAX: 650.873.6829

OR see the Announcements section of the chapter web site (<http://www.ggashrae.org/>) for an electronic form that can be completed and emailed.

Please assist the Board to choose topics that will be of interest to our membership. Your suggestions are welcomed for whether these topics should be presented as the main program, or a pre-meeting technical seminar. Your suggestions for other program topics and/or speakers are also appreciated.

#	PROGRAM	VOTE: 1 = Very Interested 2 = Some Interest 3 = No Interest
1.	Controlling buildings with floating temperatures to optimize comfort and energy use	
2.	Demand control ventilation using CO2	
3.	Comparing economizer relief systems	
4.	Electric utility power supply - what is lurking for summer 2002?	
5.	LBNL (Lawrence Berkeley Nat'l Labs) – What are those scientists dreaming of and how will it affect us?	
6.	Ground source heat pump / Geoexchange systems	
7.	Performance based zero-tolerance chiller procurement procedures	
8.	Title 24 - 2001 & 2005 proposed updates	
9.	IAQ – Recent developments	
10.	Large central chilled water plant design	
11.	Underfloor air distribution – Challenges and Opportunities	
12.	Load shedding / Peaking shaving techniques	
13.	Fire / Smoke control	
14.	How to specify split system refrigeration systems and accessories	
15.	Aircraft cabin IAQ	
16.	HVAC load calculations: what is the radiant times series method?	
17.	Applications for direct-fired equipment	
18.	VAV fume exhaust equipment and controls	
19.	Energy efficient clean room design	
20.	Seismic upgrades of the Golden Gate / Bay Bridge	
21.	Barriers to Sustainable / Green design	
22.	Effective ventilation design: diffusers, box minimums, OSA damper control	
23.	Building commissioning	
24.	Web based integrated project management	
25.	Construction litigation	



ASHRAE Golden Gate Chapter

2001 North –vs- South Golf Tournament

Friday, June 22, 2001

Sunol Valley Golf Club, 6900 Mission Road, Sunol, California

Registration begins at 10:00 a.m. Shotgun start at 1:00 p.m.

Dinner and Awards Ceremony to follow (Approximately 6:00 p.m.)

Entry Form Required for Each Player

Registration Information:

Your Name: _____
Company Name: _____
Complete Mailing Address: _____

Phone Number: _____ Fax Number: _____
E-mail (if available): _____

Please send all tournament details to me via: Fax E-Mail U.S. Mail

I will be playing as:

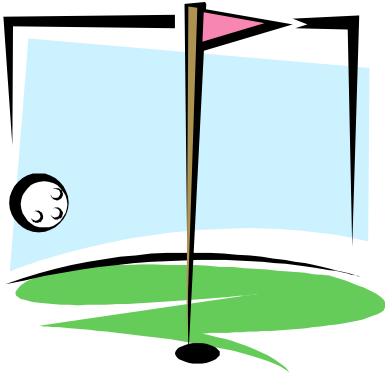
- A single player looking for a team to join
 A member of the team sponsored by: _____
Company Name

I am interested in supporting ASHRAE and the Local Scholarship Fund by sponsoring the following:

- \$10,000 Hole-In-One Contest
 \$5,000 Putting Green Contest
 "Longest Drive" or "Closest to the Pin" Contests
 Tee-Sponsor for an Individual Hole

Please forward this form to:

Jennifer Jobs
California Hydronics Corporation
P.O. Box 5049
Hayward, CA 94540-5049
Phone: 510-266-7876 Fax: 510-293-3080
E-mail: jjobs@calhydro.com



ASHRAE Golden Gate Chapter 2001 North -vs- South Golf Tournament

SPONSORSHIP AVAILABLE

We hope that you will consider placing your company logo or name on a Tee-Sign at this year's tournament benefiting ASHRAE Research and Local Scholarship Fund.

Hole-In-One

\$10,000 Prize

Tee Sponsor Fee
\$600.00 each
(Two Available)

Putting Green Contest

\$5,000 Prize

Tee Sponsor Fee
\$400.00
(One Available)

Tee Contests

Your Company Name on Trophy

“Longest Drive Contest”
“Closest to the Pin Contest”

Tee Sponsor Fee
\$225.00 each
(Two Available per Contest)

Tee Sponsor

\$175.00 per Hole
-Or-
Two for \$300.00

All sponsors will receive their sign in a wooden frame. Send this completed form to Jennifer Jobs via Fax 510-293-3080 or e-mail jjobs@calhydro.com. Mail your camera-ready art or logo, letterhead, business card or your company name as you would like it to appear on your Tee-Sign by **June 1, 2001**, along with your check made payable to **Golden Gate ASHRAE** to: Jennifer Jobs, California Hydronics Corporation, P.O. Box 5049, Hayward, CA 94540-5049.

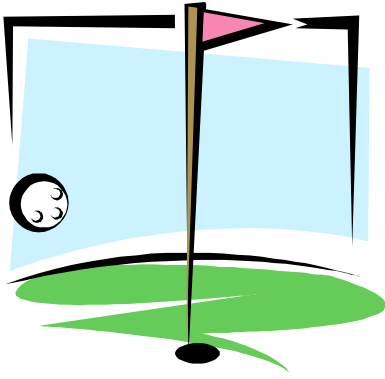
Name: _____ **Phone:** _____
Company: _____ **Fax:** _____
E-mail: _____

Reservation for:

<input type="checkbox"/> Hole-In-One	<input type="checkbox"/> Longest Drive	<input type="checkbox"/> Closest to the Pin
<input type="checkbox"/> \$5,000 Putting Green	<input type="checkbox"/> \$175 Tee Sponsor	<input type="checkbox"/> Two for \$300 Tee Sponsor



Fill in the blanks above with the number of sponsorships you would like to reserve. Your reservation will be confirmed upon receipt of payment. **Tees will be assigned on a first come, first serve basis.**



ASHRAE Golden Gate Chapter

2001 North –vs- South Golf Tournament

Friday, June 22, 2001

Sunol Valley Golf Club, 6900 Mission Road, Sunol, California

Registration begins at 10:00 a.m. Shotgun start at 1:00 p.m.

Dinner and Awards Ceremony to follow (Approximately 6:00)

Four Person Team Scramble • Limited Availability • Delicious Food • Fun Prizes

Thank you for your interest in the 2001 North –vs- South Golf Tournament. You and your teammates will be playing for “Bragging Rights” to see whether the North or South does it better. Get your team together today. It’s all in the name of fun and to help raise money for ASHRAE Research and the Local Scholarship Fund. Maps and rules will be sent to your office for team distribution. Please mark below which team package your company would like to sponsor and fax or e-mail this form as soon as possible as time and space are limited.

- “GOLD” Package Investment: \$ 1,800.00**
 - Green fees and carts for four foursomes
 - Two tee sponsorships featuring your company name & logo
 - Awards dinner ticket for each player
 - Golf goodies

- Single Player: \$ 115.00**
Single players will be assigned to a team. Please note any special team requests. Includes Golf Goodies & Dinner.

Fax your completed reservation form to Jennifer Jobs at 510-293-3080 or e-mail to jjobs@calhydro.com as soon as possible.

- “SILVER” Package Investment: \$ 1,300.00**
 - Green fees and carts for three foursomes
 - One tee sponsorship featuring your company
 - Awards dinner ticket for each player
 - Golf goodies

Make checks payable to:
Golden Gate ASHRAE

Please mail all fees with a copy of your reservation form to:

- “BRONZE” Package Investment: \$ 875.00**
 - Green fees and carts for two foursomes
 - Awards dinner ticket for each player
 - Golf goodies

Jennifer Jobs
California Hydronics Corporation
P.O. Box 5049
Hayward, CA 94540-5049

- “BASIC” Package Investment: \$ 440.00**
 - Green fees and carts for one foursome
 - Awards dinner ticket for each player
 - Golf goodies

Questions...Please call:
Bob Polizzi or Jennifer Jobs: 510-293-1993

NOTE: Sponsorships and team reservations valid only after receipt of your fees. No refunds. Extra dinner tickets are available for \$30 each. Artwork for tee sponsorship must be delivered to California Hydronics Corporation no later that Friday, June 1, 2001.

Required Registration Information:

Team Captain(s): _____

Sponsoring Company: _____

Complete Mailing Address: _____

Phone Number: _____ Fax Number: _____

E-mail (if available): _____

ASHRAE Golden Gate Chapter 2001 North –vs- South Golf Tournament

Friday, June 22, 2001 • 1:00 p.m. Shot Gun Start
Sunol Valley Golf Club • Sunol • California • (925) 862-0414

Registration

Registration begins at 10:00 a.m. next to the Clubhouse Pro Shop. We have a Shot Gun start at 1:00 p.m. Please arrive early. At the time of registration, you will be informed of your pre-assigned cart number. Everyone will be playing on the Palm course. You will receive “goodies” including two drink tickets and a dinner/raffle ticket. Drink tickets can be used at the Snack Shacks or the no-host bar during dinner. A \$5000 Putting contest will be held between 11:00 a.m. and 12:20 p.m. Please be in your carts at 12:30 p.m. sharp in order for Course Rangers to lead each team to their starting hole.

Meals

Lunch is not provided, but may be purchased at the Clubhouse restaurant or Snack Shacks. Drink tickets are good in the Clubhouse or the Snack Shacks located between the 16th and 17th holes on the Palm course. A Buffet Awards Dinner and no-host Happy Hour (drink tickets accepted) will follow golfing (approx. 6:00 p.m.). Extra dinner tickets are \$30.00 each.

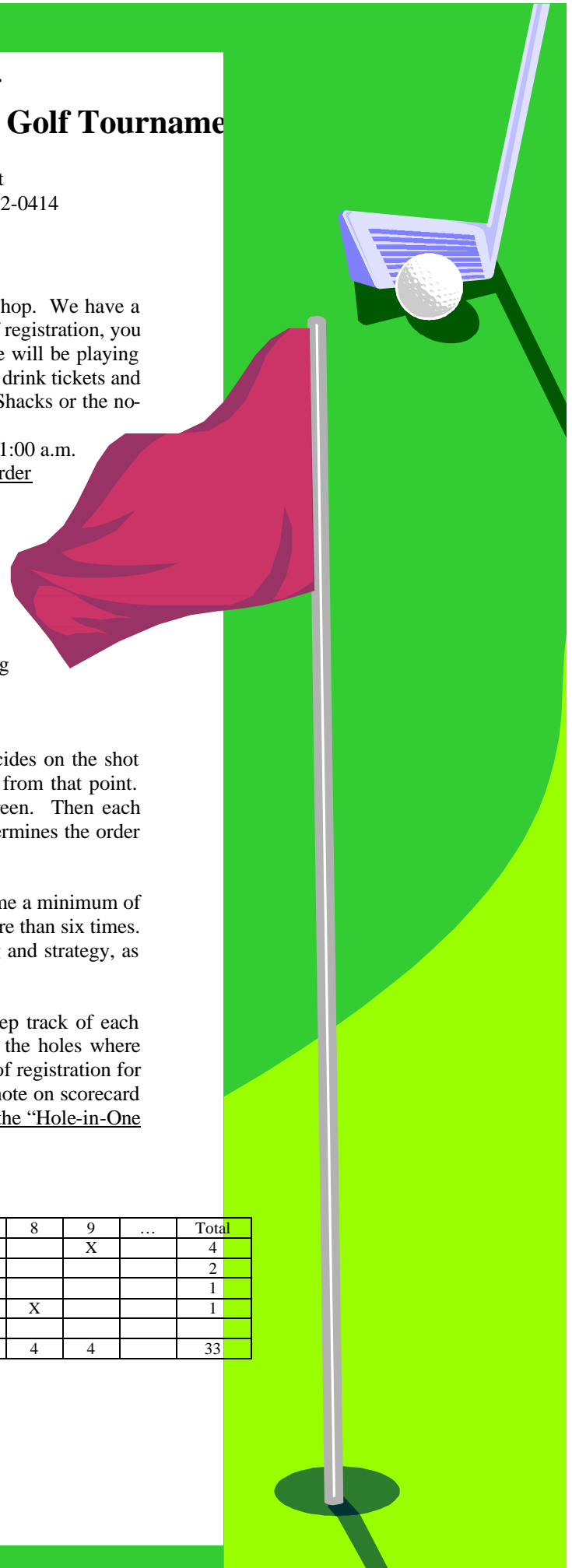
Scramble Tournament Rules and Regulations

Every player in the foursome hits every drive. The team decides on the shot determined to be the best and everyone plays their next shot from that point. This “BEST BALL” is played until the team reaches the green. Then each player putts accordingly until the putt is made. The team determines the order in which the golfers hit each shot.

Every team must use one drive from each player in the foursome a minimum of three times. No player in the foursome may use their drive more than six times. This rule has been put in place to encourage a bit of planning and strategy, as well as to maintain fun for all players.

Please complete your scorecard like the example below. Keep track of each person’s drive by putting a check in the player’s column on the holes where their drive was used. Mulligans can be purchased at the time of registration for \$3 each with a maximum of four Mulligans per team. Please note on scorecard where each Mulligan was used. Mulligans cannot be used on the “Hole-in-One holes”.

Score Card	1	2	3	4	5	6	7	8	9	...	Total
Player 1	X				X	X			X		4
Player 2		X	X								2
Player 3							X				1
Player 4								X			1
Team Score	4	5	3	2	3	4	4	4	4		33



Syserco Supports ASHRAE Research

Howard Knutson - Joe Olivier

Jack Day - Phil Herve'



44244 Fremont Blvd. Fremont, CA 94538 (510) 498-1171

www.syserco.com