

## May Meeting Details

The May meeting is a lunch meeting and the Golden Gate ASHRAE annual field trip—a building tour! The tours are currently full, but all are welcome for lunch.

Date: Thursday, May 3, 2007

Place: California Culinary Academy  
 625 Polk Street at Turk  
 San Francisco, CA 94102  
[\(map and directions\)](#)

Schedule:

Tour 1: 10:30 – 11:30 am: at the Federal Building  
 Lunch: 12:00 – 1:00 pm: at the California Culinary Academy  
 Tour 2: 1:15 – 2:15 pm: at the Federal Building

Cost:

	Before noon Fri., Apr 27	After noon Fri., Apr 27
ASHRAE members	\$40	\$47
Non-members	\$47	\$50
Students	Free with registration	
Voucher holder	Free with registration	

Due to popular demand and limited capacity, both tours filled to capacity a few hours after they were announced by email. We appreciate the Chapter’s interest in the tours and sincerely regret that we were not able to accommodate all interested parties.

Remember— if you make a reservation and cannot attend, you need to cancel in advance, or you will be billed. Scott Wayland will be taking reservations. If you need to CANCEL, please send a message to Scott at [cancellation@ggashrae.org](mailto:cancellation@ggashrae.org).

## May Program

### Tour of the New Federal Building

Photo: Tim Griffith, Morphosis

**Architect: Morphosis**  
**Engineer: Arup**

#### Tour led by Warren J. Sitterly, General Services Administration

This year’s Golden Gate ASHRAE annual fieldtrip will be a tour of the newly completed San Francisco Federal Building, scheduled to be formally dedicated in July 2007. The 18 story tower has open plan office spaces that are entirely naturally ventilated, with no mechanical ventilation or cooling. The tower was sited to take advantage of the direction of the prevailing winds in San Francisco. The windows are protected by an innovative perforated steel screen, and curved concrete ceilings help channel the flow of air through the relatively narrow footprint of the tower.

## Golden Gate Chapter President's Message, May 2007

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### Whose Industry Is It?

I love this industry. I have made a great living in mechanical engineering for years. We create healthy and safe environments where people live and work. We are improving building efficiency and learning to build and live sustainably to help solve the carbon crisis. This is a grand industry and a wonderful time to be in it.

I am troubled by those of us who take ownership of the industry without realizing that, though we work in this industry, we do not own it. The customers who spend the money own the industry. Our work, our careers and our lives are dependent on their decisions. We are only invited to be part of this industry if the customers see us as the best value provider of services.

How do we provide the best value in such a competitive industry? We are all vying for our slice of the HVAC pie.

A common reaction to competition is to put up barriers like certifications, licensing or legislation to keep others out. I prefer the other option to barriers: competition. Competition forces creativity and efficiency in the marketplace; barriers put a drag on growth and development. Compete to prove your worth! Read, talk to fellow ASHRAE members, do more research, go to conferences, teach, write articles and challenge yourself to refine your skills and improve.

May's annual field trip will be a tour of the Federal Building again, since it was so popular last year. The tours are currently full, but if you are not attending the tour, support the chapter and join us for lunch at one of my favorite venues, the California Culinary Academy. CCA is a training ground for the next generation of great chefs. The food variety is great, the buffet is exquisitely presented and of course the company is your HVAC friends. Hope to see you May 3 at the CCA for lunch.

*Respectfully submitted,*  
*[Glenn Friedman](#), Chapter President*

## Vote for 2007/2008 Golden Gate Chapter Board of Governors

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The current Board of Governors wishes to thank the Nominating Committee for its time and effort on next year's ballot. The nominating committee members included Dennis Thompson - Chair, Mike Scofield and Dick Charles. The voting results will be announced at the June Golden Gate Chapter meeting.

It's that time of year again: time to vote for next year's Board of Governors. This year, this voting will take place electronically. Go to <http://www.ggashrae.org/ballot.htm>, read the candidates' biographies and vote!! **Votes must be received by May 11, 2007.**



# Air Treatment Corporation

*HVAC Manufacturers Representative*

## Manufacturers and Products

*Click on manufacturer name to follow link to manufacturer website*

### ABB

- ◆ Variable Frequency Drives
- ◆ Motors
- ◆ **Local Stock Available**

### AIREDALE

- ◆ Classroom Unit Ventilators (2 to 5 tons)
- ◆ Mini-Split Ceiling Cassette (0.6 to 4 tons)

### APC/NETWORKAIR (formerly AirFlow)

- ◆ Computer Room A/C Units

### ARMSTRONG PUMPS

- ◆ Pumps – Horizontal & Vertical
- ◆ Packaged Systems
- ◆ Heat Exchangers & Accessories

### CLIMACOOL

- ◆ Modular Chillers

### CLIMATEMASTER

- ◆ Water Source Heat Pumps
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- ◆ **Local Available Stock**

### COLMAC COIL

- ◆ Heat Pipe Energy Recovery Coils

### DESERT AIRE

- ◆ Indoor Pool Dehumidification Systems

### DYNAMIC AIR TECHNOLOGY

- ◆ Air Handling Units
- ◆ Indirect/Direct Evaporative Cooling
- ◆ Make-up Air Units

### INTERNATIONAL ENVIRONMENTAL

- ◆ Fan Coils

### MUNTERS/CARGOCAIRE

- ◆ Desiccant Dehumidifiers

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- ◆ Air Flow Measuring and Control Systems

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- ◆ DX Package units (to 250 tons)
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### SMART, INC.

- ◆ Chillers using Turbocor Compressors
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### TEK-AIR SYSTEMS

- ◆ Laboratory Fume Hood Control Systems
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- ◆ Absorption Chillers (10 to 1600 tons)

### TOXALERT/VULCAIN

- ◆ Garage CO Control Systems
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### UNITED COOLAIR

- ◆ DX Self-contained or Split Systems
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# ASHRAE Research Report

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Fahad Rizqi, Resource Promotion Chair, Golden Gate ASHRAE

**We are currently short on our goals for the year.** I urge everyone to donate to Research Promotion so that we can achieve our goal for the year. We can get to our goal if each member of Golden Gate ASHRAE donates \$50.

Also, please get in touch with me as well, if you would like to place an ad in the Fog Dispenser. The Fog Dispenser reaches Bay Area Consulting Engineering Firms, Mechanical Contractors, Vendors and many more.

To everyone that wants to donate to ASHRAE Research, 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](http://www.ashrae.org)

## Topical Areas and Example Research Projects

- Design Tools
- Develop design tools for improving the energy efficiency of HVAC&R systems
- Develop design tools for improving IEQ in buildings
- Develop simplified tools to evaluate HVAC system options
- Improve and simplify design and simulation tools for HVAC&R systems
- Integrate the design, construction, operation, and maintenance processes
- Improve interdisciplinary coordination and communication during design
- Develop visualization tools for HVAC&R industry that enable architects and engineers to work together more effectively
- Develop designs for extraordinary incidents
- Develop prescriptive/performance based design standards
- Develop a multifaceted tool to evaluate all of a buildings energy and environmental impact parameters
- Develop design tools to address emerging industry trends and new building techniques (e.g. underfloor air distribution, dual facade building envelopes)

You can email me if any of you would like more information on the details of the research themes and possible research projects.

See you at the next meeting!!!

Fahad Rizqi, [fahad.rizqi@siemens.com](mailto:fahad.rizqi@siemens.com), 510-723-7833

## Chapter Technology Transfer Committee (CTTC)

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Tyler Bradshaw, ASHRAE Golden Gate CTT Committee Vice Chair

<http://www.ashrae.org/cttc>, <http://ggashrae.org/cttc>

### 2007 Golden Gate Technology Awards

Please join us in congratulating the award recipients and wish them luck at the regional competition. 2007 Golden Gate ASHRAE Technology Awards were announced at the April meeting.

Category II – Institutional Buildings – New

1st Place – Lewis & Clark State Office Building, Jefferson City, MO

Peter Rumsey, Rumsey Engineers

Category II – Institutional Buildings – New

2nd Place – Frank P. Doyle Library, Santa Rosa Junior College, Santa Rosa

Tony Costa & Chris DelCore, Costa Engineers, Inc.

Category II – Institutional Buildings – Existing

1st Place – UCSF HSW Improvements Phase 1, San Francisco

Mark Redmond & Ted Jacob, Ted Jacob Engineering Group, Inc.

Category V – Public Assembly – New

1st Place – Live Oak Community Library, Santa Cruz

Steve Guttman, Guttman and Blaevoet Consulting Engineers

Category VI – Residential – New

1st Place – Curry Village in Yosemite National Park

Steve Guttman, Guttman and Blaevoet Consulting Engineers

Congratulations to the winning participants; they will continue on to the Region X Award competition and those results will be announced at CRC.

Golden Gate members, it's not too early to start thinking about next year!!!

### Climate Change Solutions Seminar

ASHRAE members, please show your support for our upcoming seminar by participating in an upcoming speaker survey. Our chapter president Glenn Friedman will shortly issue a solicitation from all members on their speaker recommendations for our planned “Climate Change Solutions” fall seminar. We look forward to receiving your comments and involvement that is certain to improve this important event.

### State Government Action Update

#### *Global Warming Solutions Act of 2006: AB-32*

This Law requires California to reduce its greenhouse gas emissions by almost 30% by the year 2020 across all economic sectors. Though buildings consume 40% of energy in the State, they have largely been ignored by the Technology and Economic Advancement Advisory Committee (TEAAC) reporting to the State on this issue. CTTC Chair David Okada is fighting for the TEAAC to address building issues and has established an opportunity to present analysis and recommendations for technologies and strategies for Greenhouse Gas Reductions in the Buildings sector. If you are interested in being involved, or have recommendations for representatives in the building industry to support this effort, please contact David at [david.okada@stantec.com](mailto:david.okada@stantec.com).

*Continued next page*

## Chapter Technology Transfer Committee (CTTC) continued

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### *2007 Active Building-Related Legislation*

California Legislators are taking energy efficiency, water efficiency and Green Buildings very seriously. They are currently working on the following bills that would have sweeping effects on the market and regulations for the building industry:

<http://www.leginfo.ca.gov/billinfo.html>

#### **AB 35 LEED-based requirements for California State-owned buildings**

[AB 80](#) CHPS-based requirements for State school funding

[AB 154](#) Energy efficient commercial building tax credit

[AB 155](#) Energy efficient home tax credit

[AB 527](#) Energy efficiency plan for State-operated buildings

#### **AB 564 Carbon-neutral building standards**

note: Carbon-neutral buildings are consistent with ASHRAE's adoption of the 2030 Challenge

[http://www.architecture2030.org/open\\_letter/index.html](http://www.architecture2030.org/open_letter/index.html)

[AB 609](#) State building construction: 15 year payback for energy conservation measures

[AB 662](#) Appliance water efficiency to be regulated by Energy Commission

[AB 715](#) Water conservation in Water Closets and Urinals

[AB 722](#) General service incandescent lamps abolished

[AB 792](#) Environmentally Sustainable Affordable Housing Program

[AB 811](#) Income and corporation tax credit for renewable energy

#### **AB 888 Green Building standards/requirements for all commercial buildings**

[AB 999](#) Green technology and goods movement technical education academies

[AB 1058](#) Home construction green building best practices

#### **AB 1065 Energy code to reduce building energy use 80% by 2030**

[AB 1103](#) Commercial building energy consumption reporting

[AB 1327](#) Define "green building" for future tax incentives

[AB 1470](#) Solar Thermal: Solar Hot Water and Efficiency Act of 2007

#### **AB 1560 Building water efficiency to be regulated by Energy Commission**

### Join the CTTC Committee

If you like to assist the chapter and get involved with ASHRAE, the Chapter Technology Transfer Committee is one of the best places and could use your help. Talk to a board member or contact David Okada at [david.okada@stantec.com](mailto:david.okada@stantec.com) or Tyler Bradshaw at [tbradshaw@rumseyengineers.com](mailto:tbradshaw@rumseyengineers.com).

## Upcoming Annual Tennis Tournament

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Daylight savings gets people excited. More sun equals more smiles. Me? I smile when I have time to play more tennis and daylight savings means just that. And why should you care? Well it's time to dust off that racket and join me in practicing for the 2007 ASHRAE Golden Gate Chapter Eric Thor Andresen Memorial Tennis Tournament! We had record participation, in addition to record enjoyment, last year and this year is going to be even better. Tentatively, the date is set for August 17, 2007 at the San Francisco Tennis Club. Stay tuned for details but if you have any questions or would be interested in helping to sponsor the event, please feel free to contact me.

James Gronek, [james.gronek@sf.fk.com](mailto:james.gronek@sf.fk.com), 415-402-5824

# Minutes of Golden Gate Chapter Meeting—April 5, 2007

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Dinner Meeting, Pacific Energy Center, San Francisco

- Glenn Friedman, Golden Gate Chapter President, called the meeting to order at 7pm.
- Self introductions.
- Student sponsors were Advanced Cooling Tower technologies, California Hydronics (2), Guttman & Blaevoet, JCI/York (2), NEBB, Norman S. Wright, R.F. McDonald, Siemens, and Taylor Engineering.
- Announcements.
  - GGC meeting minutes from March 1 dinner meeting, published in the April Fog Dispenser, were approved.
  - Dennis Thompson announced the nominating committee slate and asked for a close of nominations. There are three candidates for the two positions, and a ballot will be sent to members this month.
- 7:40 PM – Main Program.
- Scott Wayland announced the Chapter CITC Awards to Rumsey, Costa, Ted Jacobs, and Guttman & Blaevoet.
- Tim Goepfner announced the GGASHRAE Scholarship Awards:  
Eric Thor Andresen Scholarship of \$2,000 to Carrie Brown  
Eric Thor Andresen Scholarship of \$2,000 to Garrett Ogata  
Don Bryan Memorial Scholarship of \$1,500 to David Kang
- Tim Goepfner announced the San Francisco/Bay Area Science Fair Awards:  
Adam Turtsanyi (Angle of Light)  
Brian Seegers (Insulation)  
Laura Laderman (Paint Color)  
Maia Singhal (Wind Turbine)
- 8:30 PM – Vendor Raffle
- 8:40 PM – Next meeting: Thurs., May 3rd - Lunch Meeting California Culinary Institute / Federal Building Field Trip
- 8:50 PM – Meeting Adjourned

*Jeff Blaevoet*

## Student Activities

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Tim Goepfner

At the April meeting, the Bay Area Science Fair Winners, and the Don Bryant and Eric Thor Andresen student scholarship winners were announced.

The Bay Area Science Fair winners were:

- Brian Seegers, 7<sup>th</sup> Grade, Portola Middle School, El Cerrito: “Insulation Experimentation”
- Laura Laderman, 8<sup>th</sup> Grade, San Francisco School, San Francisco: “How Does the Interior Paint Color of a Room Affect its Rate of Heating and Cooling”
- Adam Turtsanyi, 9<sup>th</sup> Grade, Alameda Community Learning Center, Alameda: “Does Changing the Angle of Incoming Light Affect the Power of a Solar Cell?”
- Maia Singhal, 11<sup>th</sup> Grade, Carlmont High School, Belmont: “Harnessing the Wind: What Effect Does the Cover Shape Have on the Power Output of a Wind Turbine?”

The recipient of the Donald G. Bryant scholarship was David Kang.

The recipients of the Eric Thor Andresen scholarship were Carrie Brown and Garrett Ogata.

Congratulations, students!!

## Employment Opportunities

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### HVAC Sales Engineer in Northern California Region

Duties: Develop and maintain relationships with design firms, building owners, and Regional AIA Chapters; conduct lunch and learn events; develop corporate construction agreements with Fortune 500 Companies; review and analyze construction reports of large future projects; act as advisor to architects and engineers; track specified projects and work with regional and local sales reps with project quotations to suppliers and contractors; travel 75%.

Qualifications: ME or EE degree; experience in construction HVAC industry; general understanding of manufacturing markets and sales channels.

Please submit resume and cover letter to:

Rachele Bunch, Corporate Recruiter

rachele@bigassfans.com

2425 Merchant Street

Lexington, KY 40511

P: (859) 977-1383

F: (859) 233-0139

## 2006 - 2007 Event Calendar

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<i>Date</i>	<i>Venue</i>	<i>Presentation Topic</i>	<i>Speaker(s)</i>
Thursday, May 3, 2007 California Culinary Academy	Annual Field Trip	Tour of the SF Federal Building	Craig Anderson and Staff
Thursday, Jun 7, 2007 Dinner & Spouse & Significant Other Night	Carnelian Room, S.F.	The Asian Century: Current Economic Development and Its Impact on Global Energy	Clark Bisel Flack & Kurtz (S.F.)
Friday, July 27, 2007	Blue Rock Springs Golf Course, Vallejo	9 <sup>th</sup> Annual Redwood Empire Annual Golf Tournament	
Friday, August 17, 2007 (tentative date)	San Francisco Tennis Club	Annual Golden Gate Chapter Memorial Tennis Tournament	

Visit <http://www.ggashrae.org/calendr.htm> for updates, presentation summaries, speaker biographies and to register for the meetings. If you have suggestions for meeting topics, please contact Robert Marcial at [rmarcial@pacbell.net](mailto:rmarcial@pacbell.net)

## Change of Address?

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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, and then go to Membership Records. If you don't have your PIN or membership card, please call Customer Service: 1-800-5-ASHRAE (US and Canada).



Photos from the April Golden Gate Chapter ASHRAE Meeting



Left: Tim Goepfner presents award to student David Kang



Right: Scott Wayland and Tyler Bradshaw



Left: ASHRAE meeting participants enjoying a good discussion.



Right: ASHRAE meeting participants laugh it up.



Left: ASHRAE meeting participants deep in conversation



Right: Jeff Blaevoet, Dennis Thompson, and Fahad Rizqi



Left: Glen Walson and Vince Dattoli



Right: Young engineers and Russ Breed.