

October 29, 2009: Vol. 52, No. 4

Produced by: Ian L. Bost, P.E.
Chapter Newsletter Editor/ Chairman

The Therm, is a monthly Newsletter for chapter members and HVAC&R professionals alike, that provides information about the Fort Worth Chapter of ASHRAE.

President's Message

We are publishing our Therm a little bit early this month to give you enough advanced notice to make it to our earlier-than-normal meeting for November – Tuesday, November 3. Victor Goldschmidt, an ASHRAE Distinguished Lecturer, will be presenting “Differing Perspectives into Global Warming.” This meeting will be a joint luncheon with Fort Worth BOMA and will likely have an attendance of greater than 150 people, so it is especially important that we get a good RSVP count. Please be on the lookout for the eventbrite invitation when it comes out shortly.

We had another great turnout this past month and continue to be about 30% ahead of our attendance from last year through 3 meetings. Thomas Hartman’s discussion on relational HVAC control was well received and I think we all learned a lot. This revolutionary way of controlling HVAC systems stands to save a bunch of energy in our industry going forward.

And lastly for now – we have partnered with Wells Fargo to host a financial planning night. The primary topic of discussion will be recovery from the current economic crisis. This event will take place on November 18th at 7pm on the 26th floor of 777 Main Street. Wells Fargo will be providing a meal and the discussion. You are encouraged to bring your spouse for this event, but we will need to know at least a week in advance that you plan to attend. Please RSVP to me at jay.martin@mail.ashrae.org

I hope to see you on the 3rd!

Sincerely,

Jay Martin
Chapter President

Next Chapter Meeting

Anthropogenic Global Warming - Differing Perspectives

November 3, 2009
11:30 A.M.

Carter::Burgess Plaza
777 Main St.
39th Floor
Fort Worth, TX

[Click here for map.](#)



Building Sustainability from the Inside Out

ASHRAE 2010 Winter Conference
Orlando, FL
January 23-27

November Program/Speaker Bio.

Topic of Discussion: Anthropogenic Global Warming – Differing Perspectives

Overview: A different approach to the usual formal presentation on these topics will be presented. It is the consequence of attempting to analyze the available data to demonstrate the reality of anthropogenic global warming. Unfortunately the analysis led to the conclusion that the only reality is in the uncertainties of these areas. A review of the data and predictions from climate change models will first provide evidence as to the culpability of CO₂. Following that, through careful analysis of the data, consideration of solar and astronomical large scale effects, and the nature of computer modeling, the second perspective will raise serious doubts on the culpability of CO₂ as a greenhouse gas threatening the welfare or even survival of future generations. The closing message will be a challenge to always “think as engineers”.

Lecturer: Victor Goldschmidt is an Emeritus Purdue Professor of Mechanical Engineering with more than 45 years of lecturing experience, Fellow and Past Director-at-Large of ASHRAE, and honorary member of the IIR (International Institute of Refrigeration), ACAIRE (Colombia Association of Air Conditioning and Refrigeration, AAF (Argentine Association of Cold), and ASURVAC (Uruguay Association of Refrigeration, Ventilation, Air Conditioning and Heating). He has also served as chair of the ASHRAE Task Group on Climate Change, and while serving in that role and carefully reviewing the published literature he slowly changed his perspective on the culpability of refrigerants in ozone depletion and global warming. His industrial experience includes having been an Application Engineer, and a Development Engineer with Honeywell, as well as serving as team leader with numerous research contracts with the HVAC&R industry. He also led research teams through grants with the DOD, NSF, and other governmental bodies. With more than 200 publications, he served as mentor to both graduate and undergraduate students. His earlier research and teaching included studies in atmospheric flows, and turbulent transport processes. Currently he is a facilitator to leadership training, problem solving and strategic planning sessions, a County Planning Commissioner and formerly a Trustee in the Leelanau Township Board in the Lower Northwest Michigan.

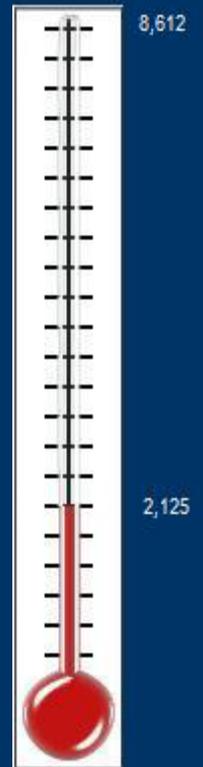


His service as an ASHRAE DL includes lectures on: Global Warming: Differing Perspectives (also could be in the form of a jury trial involving participants); Principles of Leadership and Group Dynamics; Principles of Leadership and Change; Sustainability and Energy in the Context of Power Plants; Problem Solving in Engineering; Air Conditioning: A Look Into the Past, myths and a Guess into the Future; Active Listening and Styles of Communication; ASHRAE’s Core Values, Code of Ethics, and Their Implication; Releasing Individuals’ Own Creativity; and training sessions on: Leadership Principles; Engineering Problem Solving; Engineering Creativity; and Strategic Planning.

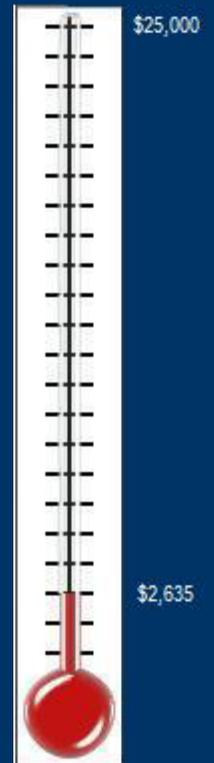
BIOGRAPHY:

Victor Goldschmidt: Emeritus Purdue Mechanical Engineering Professor. Thirty four years educating Mechanical Engineering students and directing graduate research in thermal sciences. Over 200

PAOE Points



RP Dollars



November Program/Speaker Bio. - Cont.

publications, a Fellow of ASHRAE, and honorary Member of IIR (International Institute of Refrigeration), ACAIRE (Colombian Association of Air Conditioning and Refrigeration), AAF (Argentine Association of Cold), and ASURVAC (Uruguayan Association of Cold).

Currently serving as lecturer and facilitator for problem solving, leadership training, enabling of creativity and strategic planning sessions. A past member of ASHRAE's Board of Directors he is a recipient of ASHRAE's Distinguished Service Award. He resides in the Lower Northwest Michigan, served as Trustee in the Leelanau Township Board, and currently as member of the Leelanau County Planning Commission

Presentation Outline:

Combining variable speed and digital network technologies provide new and exciting energy efficiency enhancing opportunities with what are called "relational control" techniques. Relational control employs the network capacity of modern DDC systems to operate each HVAC component in accordance with system requirements and in an optimal relationship to the current operation of all other system components. Relational control techniques offer dramatic improvements in energy efficiency, stability and system performance. This new family of control strategies represents a significant change from the stand alone nature of PID control that is still widely employed today. But this newer technology requires new industry process and practices to achieve success in implementation. So when relational control techniques are applied to achieve ultra-efficient system performance, the process through which it is applied needs to be changed as well to be

certain the technologies are adequately supported and end up operating as expected.



There are currently two primary categories of relational control as applied to HVAC systems. Demand based control, which is derived from the Equal Marginal Performance Principle, is employed to optimize the operation of systems that are composed of multiple power consuming components such as central systems. Intelligent iterative control is employed to improve the efficiency and performance of systems that distribute a resource such as heating, cooling or airflow to multiple zones.

This discussion will provide an introduction to these new relational control technologies and outline their advantages over current control practice. It will also discuss the application of these technologies to actual building systems and outline the types of changes in the design / construction / startup processes that are necessary to ensure applications of these newer technologies achieve the projected results.

Board of Governors Meeting Minutes

Attendees: 11 Members: Jay Martin, Ian Bost, Richard Watters, Patty Parish, Dan Merkel, Richard Long, Larry Akers, Jay Sullivan, W.O. Kelly, Tony Finch, and Brodie Heflin.

Meeting Called to order at 10:35am by Jay Martin, Chapter President. Jay discussed PAOE status; the Chapter now has over 2,000 points. Houston is in the lead for PAOE.

Our next BOG meeting will be held before the General Business Meeting on November 3, 2009.

Reports:

President-Elect (Ian Bost):

- Listed newest Student Members
- Unsure if he will be able to attend CRC due to previous, long-standing plans that may take him out of the country at the same time.
- Has signed up for President-Elect training.

Secretary (Richard Watters):

- Roster information has been sent to all members for their confirmation of what will be written.
- Roster should be posted online during the second week of November.
- From MBO, has called half of the targeted existing members to ask them if they would like to be more active in the Chapter and participate in committees. Have received positive feedback from all.

Treasurer (Dan Merkel):

- Updated BOG with checking account balance.
- Per MBO, will have tax information prepared by the end of October. Will plan a meeting with Ian and Richard to discuss what was done in previous years and get any necessary information.

Board of Governors (David James): NIA

Board of Governors (W.O. Kelly): No report. Will report for Special Events.

Board of Governors (Cody Pace): NIA

ByLaws Revision (John Rhodes): NIA

CTTC (Tony Finch):

- PAOE points have been updated online
- Chapter payment required for speaker next month is unclear. The speaker is already in town for other events. Tony will pursue what is required.
- Will update the upcoming speakers list by the end of the month with the rest of his committee.
- Will discuss the Technology Award, as defined by Society, at the December meeting with all members.

Historian (Patty Parish):

- Information for the website has been sent to Cody.
- Jay saw that the information has already been posted.
- Will interview Emil Friberg for Chapter Historical Data and the newsletter
- Next week, will discuss Target List with Dan for more interviews for newsletter and the website.

Honors & Awards (Larry Akers):

- Five areas of concentration:
 - Distinguished Service Award - John Rhodes, Patty has made a CD of the information for sending
 - Chapter Service Award - several people to add in addition to the 14 that have already been submitted
 - Regional Service Award - Larry Akers being submitted
 - Exceptional Service Award - Emil Friberg will be submitted. Society seems to have lost quite a bit of the data related to Emil's service, this is being recovered or recreated.
 - Fellow - Robert Riddle, needs three sponsors
 - One ASHRAE Member that is familiar with Robert and his work
 - One Chapter person - Jay Martin will be this person
 - Other
 - Fellow application must be submitted by December 1 for inclusion in this year's PAOE.

Board of Governors Meeting Minutes - Cont.

It will be tight, but everyone is committed to striving for this goal.

Membership Promotion (Brodie Heflin):

- We are down to 12% delinquency

Research Promotion (David James): NIA

- Jay Martin reported that the RP committee has met
- 30% of our goal for RP financial support has been raised

Student Activities (Matt Carter): NIA

- Jay Martin reported that the committee is working hard at UTA.
- Nick Schroeder has been very helpful in supporting ASHRAE at UTA, and his efforts are greatly appreciated.
- TCU activities has been on hold while the Chapter is being formed.

Special Events (Jay Sullivan):

- Golf Tournament - we have not received checks from two teams for this month's tournament
- The proceeds of the Golf Tournament are approximately \$5600. We had fewer hole sponsors this season compared to the May tournament.
- Engineered Air paid for a Hole Sponsorship but did not receive a sign. The Chapter is very thankful for the donation and sorry for the missing sign. We will provide a sign at the Spring tournament at no charge.
- W.O. Kelly reported on Casino Night, which will be held for our Winter Party
 - There are impacts to the location (Joe T Garcia's?)
 - Need sponsors for prizes, which will motivate people to attend and actually gamble.
 - Will form a committee to target sponsors and plan the event

Webmaster (Cody Pace): NIA

Old Business:

- Dan determined that the lunch fees at the Petroleum Club are \$19.25 per person, which is an average over several months and includes parking.
- Discussion of increasing cost of luncheon has been tabled until a new venue is found.
- Joint meeting with BOMA in two weeks

New Business:

- Membership promotions, we have had a raffle in the past, and we have provided a free lunch/attendance to the meeting for new members. Everyone is to think about this and present ideas in January for a membership promotions event.
- November newsletter to be issued next week
- RP coins will be distributed today.

Other Items: NONE

Closing: President Jay Martin adjourned the meeting at 11:25am.

General Business Meeting Minutes

Meeting Called to order at 11:57am by Jay Martin, Chapter President.

Proceeded with self-introductions and the introduction of our guests by Dan Merkel.

Old Business:

- W.O. Kelly approved the minutes
- Delinquencies – currently at about 12% of our membership is delinquent on dues.
- Joint Meeting w/ BOMA – In two weeks
 - “Differing Perspectives into Global Warming” (requested by BOMA)
- President's Award of Excellence (PAOE) Update - we have submitted for 2,125 points.
- Houston is currently in front for PAOE points.

General Business Meeting Minutes - Cont.

New Business:

- Student Activities
 - UTA students from last year achieved honorable mention for their work on the senior design project
 - UTA team for this year kicked off their project at the beginning of September and are well underway.
 - Thanks to Nick Schroeder for his assistance at UTA.
 - TCU student branch will be starting up in November
 - We have 5 new student members and 2 new full members
- January 25th will be the Winter Meeting in Orlando. We have free passes to the AHR Expo if you need them.
- Our next CRC will be in Monterey, Mexico. Please begin working on your passport registration if you have not done so already.
- CTTC Updates
 - November meeting will be on different day than we are used to.
- Research Promotion
 - \$5,600 raised for research by the Fall Golf Tournament, which puts us at 30% of our goal for fund raising.
 - Coins for last year's contributors were distributed by Rick O'Connor

Technical Session Minutes:

Tony Finch introduced our speaker:

Speaker:

Thomas Hartman, PE

Topic of Discussion:

Relational Control - HVAC System Control for the 21st Century

Combining variable speed and digital network technologies provide new and exciting energy efficiency enhancing opportunities with what are called "relational control" techniques. Relational control employs the network capacity of modern DDC systems to operate each HVAC component in accordance with system requirements and in an optimal relationship to the current operation of all other system components. Relational control techniques offer dramatic improvements in energy efficiency, stability and system performance. This new family of control strategies represents a significant change from the stand alone nature of PID control that is still widely employed today. But this newer technology requires new industry process and practices to achieve success in implementation. So when relational control techniques are applied to achieve ultra-efficient system performance, the process through which it is applied needs to be changed as well to be certain the technologies are adequately supported and end up operating as expected.

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Closing:

Our next meeting is in two weeks.

Jay Martin adjourned the meeting at 1:18pm.

Chapter Financial Report

STARTING BALANCE DATE 10/5/2009
NEW BALANCE DATE 10/27/2009

Treasurer's Report

Dan Merkel

Meeting Information:

Date of Meeting: 10/21/2009
Members 70
Guests 6
Total: 76

Financial Data:

Starting Balance (10/5/09): \$ 4,827.35
Deposits:

Online payments recieved \$1,895.00
Day of event collection \$3,285.00
After Event Collections \$4,600.00
BHB Hole Sponsorship \$150.00
Previous golf tourney payment \$0.00
Individual Dues Paid - Bill Blair \$35.00
September Luncheon Jacobs Payments \$260.00
October Luncheon Payments \$1,020.00
Sept Eventbrite Payements \$60.00
2009-2010 Roster Payments \$675.00
September Dues \$700.00

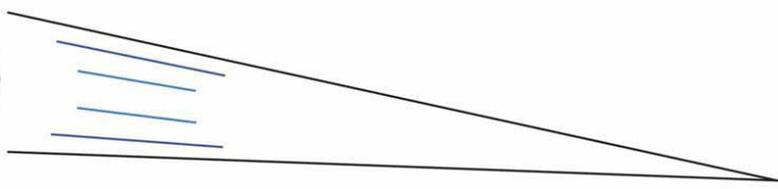
Subtotal: \$ 12,680.00

Payments:

Golf Trophies reimbursement to Shirley Ross \$300.00
Mansfield Golf Green fees \$3,993.80
October Luncheon \$1,390.80
September Parking \$75.00
ASHRAE Research Donation \$5,587.20

Subtotal: \$ 11,346.80

New Balance as of 10/27/09: \$ 6,160.55



FORT WORTH ASHRAE FALL GOLF CLASSIC

Tournament Results

1st Place

Matt Carter
Heath Klein
Fraser Ringel
Bret Romero

2nd Place

Jay Sullivan
Nick Schroeder
Cole Luke
Brandon Jarrett

3rd Place

Marc Tompkins
Bill Blair
Phil Sheridan
Chris Smith

Thank you to our Hole Sponsors:

MJ Air Products
T.E.A.M Solutions
Trane
Belimo
Baird, Hampton, & Brown, Inc.
Engineered Air
Harold James, Inc
Mech Tech Sales



Grassroots Committee Reports

Special Events

On October 5th, the Fort Worth Chapter of ASHRAE hosted the 2009 ASHRAE Fall Golf Tournament. Twenty-one teams competed at Mansfield National Golf Course in support of ASHRAE Research. Despite the early morning showers, which have become an ASHRAE Golf Tournament staple, the tournament teed off as scheduled and the afternoon weather couldn't have been nicer. I'd like to congratulate the winners of the tournament and thank everyone for your continued participation to help us reach our fundraising goal for this year. We raised nearly \$6,000 for ASHRAE Research! Our sponsors and the winners are listed on the attached flyer. Thanks again and we'll see you in the spring.

Thanks, Jay Sullivan

ASHRAE Winter Conference

Help Spread The Word About ASHRAE!



ASHRAE Winter Conference Jan 23-27

ASHRAE returns to Orlando January 23-27 for the Winter Conference and AHR EXPO. Your chapter can help promote the conference in your newsletters and on your web pages. Visit www.ashrae.org/orlandoresources and download additional information to help share the latest updates about the technical program, speakers, networking opportunities and more. Feel free to copy from the press release to use on your website and use the web ads to link to the official conference web page - www.ashrae.org/orlando.

Thanks in advance for sharing the news!



For more information on the 2010 Winter Conference, visit www.ashrae.org/orlando.

Questions? Comments? Send an email to orlandoconference@ashrae.org.

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Upcoming Events

- Director and Regional Chairman for ASHRAE (Ken Fulk) will be visiting us in October and reporting on the activities of the Region and Society.
- ASHRAE FTW
 - All Sporting Clay Tournament (date TBD)
 - Winter Party (January, 2009)
 - Tour of NEW Cowboy Stadium (hopefully)
 - 2010 ASHRAE Winter Conference in Orlando Florida (January 23-27)
 - Spring Golf Tournament (date TBD)
 - Webcast "Right From the Start - Commissioning for High Performing Buildings (April 21st)
 - CRC - Monterrey, Mexico (April 22-24)
 - <http://www.crc-2010.org/index1.html>
 - **You will need to get your passport early.**

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