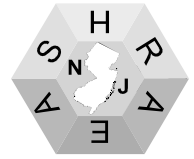




# THERMOGRAM



The New Jersey Chapter of ASHRAE Newsletter

WWW.NJASHRAE.COM

MARCH 2007

REPLY@NJASHRAE.COM

## CHAPTER OFFICERS

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609-520-1600

### PRESIDENT - ELECT

PETER FRANGISKOU P.E.  
201-945-9999

### VICE-PRESIDENT

MARK RICHTER P.E.  
212-354-5656

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OPEN

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732-380-1100

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YOGESH SHAH P.E.  
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CHRIS PHELAN  
973-777-6700

RUSS GRAHAM  
908-663-2180

## COMMITTEES

### MEMBERSHIP

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### RESEARCH PROMOTION

YOGESH SHAH P.E.  
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### STUDENT ACTIVITIES

PETER FRANGISKOU P.E.  
201-945-9999

### REFRIGERATION

JIM CASEY

### ROSTER/DIRECTORY

OPEN

## APRIL 5, 2007

**WOODBIDGE SHERATON**  
ROUTE 1, GILL LANE, ISELIN, NJ

**SPECIAL EVENING  
STUDENT NIGHT**

**COST \$50.00 MEMBERS, \$55.00 GUESTS &  
\$5.00 STUDENT**

RSVP TO:

**WWW.REPLY@NJASHRAE.COM**

**NO LATER THAN APRIL 4, 2007**



4:30 BOARD OF GOVERNORS MEETING  
5:30 REGISTRATION / COCKTAIL HOUR  
6:30 CHAPTER ANNOUNCEMENTS  
7:15 DINNER AND PRESENTATION

**DINNER TOPIC:  
"PRINCIPLES OF CHILLED  
CEILINGS, FLOORS, AND  
BEAMS"**

**PRESENTED BY:  
MR. STANLEY MUMMA PHD  
ASHRAE DISTINGUISHED LECTURER  
PROFESSOR EMERITUS  
ARCHITECTURAL/ENGINEERING  
PENN STATE UNIVERSITY**

*Chilled Ceilings, Floors, and Beams have been met with skepticism by many US engineers due to problems encountered with systems installed in the 1960's, as well as an on-going perception that condensation, capacity and cost are insurmountable problems. Dr. Mumma will forthrightly address these three issues. In addition, he will elaborate on the performance of integrated Dedicated Outdoor Air Systems (DOAS), Chilled Ceiling, Floor or Beam systems in the areas of human comfort, safety—including terrorist resistance, and LEED/sustainable design. Both design and operating experiences from buildings employing these technologies will also be presented. Finally, the chilled ceiling, floor or beam engineering design process will be laid out, including emphasis on the need for DOAS when chilled ceiling/floor/beam projects are undertaken.*

**COMMITTEES**  
 (CONTINUED)
**CTTC – TEGA**
 MARK RICHTER P.E.  
 212-354-5656
**NEWSLETTER ADS**

OPEN

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**SCHOLARSHIP**
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**SPECIAL EVENTS/GOLF OUTING**
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BOB DALY

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 1-(800)-527-4723

## NJ ASHRAE CHAPTER

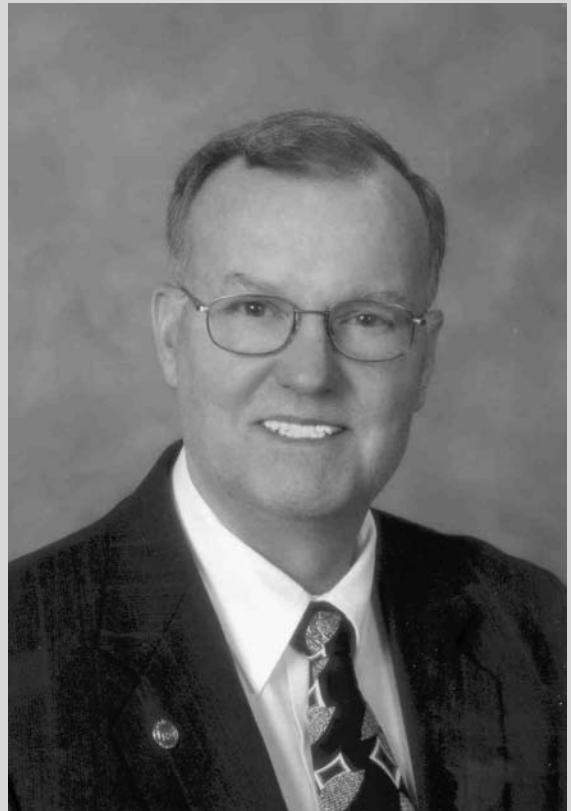
### WE NEED VOLUNTEERS !!!

## SPEAKERS BIOGRAPHY

### ASHRAE DISTINGUISHED LECTURER

#### MR. STANLEY MUMMA, PHD

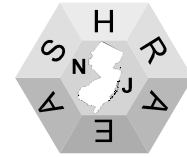
Dr. Stanley Mumma is currently a Professor Emeritus of Architectural Engineering at Pennsylvania State University. Prior to joining Penn State in 1984, he was a General Motors Corporation project engineer for three years between his undergraduate studies in Mechanical Engineering at the University of Cincinnati, and his graduate work at the University of Illinois at Urbana-Champaign. Since earning his Ph.D. in Mechanical Engineering in 1974, under the mentorship of Dr. Will Stoecker, he has also held faculty positions at Ohio State University and Arizona State University. In



the first third of his academic career, his research focused principally on solar and alternate energy. Then his interests changed to innovative ways of meeting ASHRAE Standard 62 in an energy efficient fashion. That work has led to his current intense interest in dedicated outdoor air systems (DOAS). He writes extensively on the subject (see <http://doas-radiant.psu.edu/papers.html>). Two of his publications were recipients of ASHRAE best paper awards. He has also received ASHRAE's Distinguished Service Award, the E.K. Campbell Award of Merit, and the grade of Fellow. Currently, Dr. Mumma is a member of several Technical Committees and the Society Publishing Committee.



NJ ASHRAE 2006 – 2007  
DINNER MEETING SCHEDULE



**APRIL 5, 2007**

*STUDENT NIGHT*

CHILLED CEILING IN PARALLEL WITH DEDICATED OUTDOOR AIR  
 SYSTEMS (DOAS)

ASHRAE DISTINGUISHED LECTURER  
 MR. STANLEY MUMMA, PHD

**MAY 3, 2007**

*SCHOLARSHIP AWARD NIGHT*  
*INSTALLATION OF OFFICERS*

JOINT MEETING WITH N.J. USGBC  
 MR. THOMAS MCGEACHEN, P.E. LEED<sup>AP</sup>  
 THE DOE PRINCETON PLASMA PHYSICS LAB  
 LEED™ E.B. EXISTING BUILDING

**JUNE 7, 2007**

*SPOUSES NIGHT*

**2006-2007 PRESIDENTIAL AWARD OF EXCELLENCE (PAOE) SUMMARY**

Chapter #	Chapter Name	Chapter Members/ students	Member Promotion	Student Activities	Research Promotion	CTTC	History	Chapter Operations	Chapter PAOE Totals
007	N.J.	831	260	490	330	280	75	610	2045

## ASHRAE Satellite Broadcast

### Indoor Environmental Design: Practical Solutions to Everyday Problems

Wednesday, April 18, 2007

Registration and Lunch:  
12:30 pm – 1:00 pm

Broadcast  
1:00 pm – 4:00 pm

Location:  
Trane New York/New Jersey  
4 Wood Hollow Road  
Parsippany, NJ 07054

**(3) PDH Credits or (3) AIA Learning Units**

(“Participant Reaction Form” must be completed to obtain credits)

Free Broadcast will provide specific solutions to the everyday challenges of achieving acceptable indoor environmental quality within real-world budget constraints. The program will benefit designers, building owners, architects and contractors who are faced with the daily engineering challenge of specifying systems that maximize IAQ, thermal comfort and noise control. ASHRAE'S Chapter Technology Transfer Committee sponsors this program. For complete details visit their website at [www.ashrae.org/iedbroadcast](http://www.ashrae.org/iedbroadcast).

**Presenters:** Hoy R Bohanon, Jr., William J. Coad, Lew Harriman, Daniel In-Hout, Christopher O. Muller

**Registration is required. Seating is limited and on a first come first serve basis:**

**Phone:**

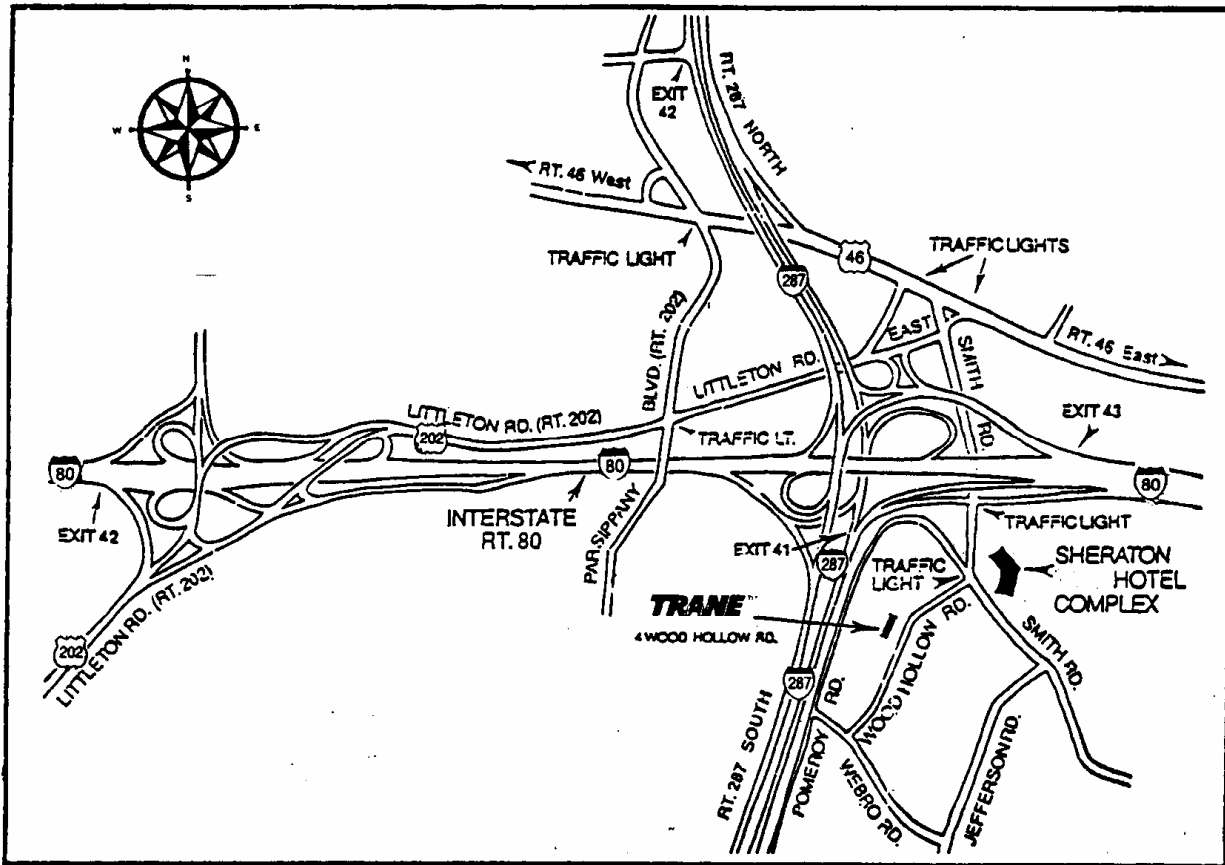
732-218-7463 and leave a message

**Or email:**

**[Reply@njashrae.com](mailto:Reply@njashrae.com)**

**Additionally: Satellite participants can join ASHRAE now and Save \$50.00. For more information go to [www.ashrae.org/template/assetdetail/assetid/31883](http://www.ashrae.org/template/assetdetail/assetid/31883)**

**Directions to New Jersey Trane**  
**4 Wood Hollow Road, Parsippany, New Jersey, 07054**  
**Phone (973) 887-8800 Fax: (973) 887-8844**



**Garden State Parkway (Bergen County & North):** Take exit 159. Get onto Route 80 west. Take exit 43. Follow signs for Route 287. (Do not get on Route 287) When on the ramp, follow sign for Route 287 North and Route 46. Exit at sign for Route 46 and Smith Road. Bear right and at the stop sign, make a right onto Littleton Road. Continue to the end of Littleton Road and at the light, make a right turn onto Smith Road. At the second traffic light (in front of the Sheraton Hotel) make a right hand turn onto Wood Hollow Road.

**Garden State Parkway (Essex County & South):** Take exit 145. Get onto Route 280 west. Take Route 280 west and continue past exit 1 to where the highway divides. Stay in the right lane and follow signs for Route 287 and 46. You will be traveling parallel to Route 80. Get off at exit 43 and follow the signs to Route 46 and Smith Road. Bear right and at the yield sign, make a right onto Littleton Road. At the light make a right turn onto Smith Road. At the second traffic light (in front of the Sheraton Hotel) make a right hand turn onto Wood Hollow Road.

**From Route 287 Going South:** Take exit 42. Make a left at the light after the exit onto Parsippany Boulevard. Make a left at the next light onto Route 46 east. Before the next light, bear right immediately after the Gulf Station (sign points to Route 80) This is Smith Road, follow Smith Road to the third traffic light, (in front of the Sheraton Hotel) make a right hand turn onto Wood Hollow Road.

**From Route 287 Going North:** Take exit 41A. Bear right on ramp to traffic light at Smith Road, make a right, at the next light (in front of the Sheraton Hotel) make a right onto Wood Hollow Road.

**From Route 80 Going East:** Take exit 42. Follow signs for Route 202 north, also known as Littleton Road. The road will divide so that the right lane enters onto Rt. 80 West and the left lane will remain Littleton Road (Rt. 202). Stay on Littleton Road. Before traffic light stay in right lane. Continue going straight through on Littleton Road to the end. Make a right at the light onto Smith Road. At the second light on Smith Road (in front of the Sheraton Hotel) make a right onto Wood Hollow Road.

**From Rt. 80 Going West:** Take exit 43, follow signs for Route 287. (Do not get on Route 287). When on the ramp, follow sign for Route 287 North and Route 46. Exit at sign for Route 46 and Smith Road. Bear right and at the yield sign, make a right onto Littleton Road. At the light make a right turn onto Smith Road. At the second traffic light (in front of the Sheraton Hotel) make a right hand turn onto Wood Hollow Road.

## HELP WANTED

<b>Company:</b>	Clive Samuels and Associates	<b>Location:</b>	Princeton New Jersey
<b>Company Profile:</b>		<b>Other Categories:</b>	
<b>Specialty Field:</b>	Commercial	<b>Training/Education:</b>	BSME; PE License Required
<b>Experience:</b>	10+	<b>Salary Range:</b>	TBD

### Specific job responsibilities / qualifications required including certifications:

Would you like to be part of the MEP Design Engineer industry? Do you want to be challenged by opportunities that expose you to many facets of building design development?

As a Mechanical Lead Engineer for our Princeton NJ based MEP Consulting Engineering Firm (Division of Emerson Electric a Fortune 200 Corp), you will play a key role in performing complex engineering, design, analysis and other technical tasks utilizing current technology and available standards.

Perform a technical leadership role supervising, coordinating and directing others in the production of customer-focused design services that meet established project requirements.

Participate in business development activities including sales, proposal preparation and client presentations.

#### Requirements:

- + Senior-level engineering assignment to a project or organizational team, or as a Lead Engineer for a specific discipline or larger projects
- + Independently develops and/or supervises the creation of engineering documents that meet customer quality requirements; typical responsibilities may include detailed calculations and analyses, drawing review, technical reports, proposal evaluations, design and installation packages and development of specifications
- + May supervise or mentor one or more subordinates and provide input regarding performance.
- + Responsible for selection, layout and sizing of applicable systems and equipment
- + Identifies problems, establishes work scope, prepares budget and schedule, plans work, provides technical direction, and reports work status
- + Performs internal and external project management responsibilities as required
- + Represents design team at project and client meetings
- + Reviews, signs and seals drawings, specifications, calculations, reports and other documents.

CSA offers a competitive salary and excellent benefits, including medical, dental, life insurance, 401K with company match. We are an Equal Opportunity Employer and hire regardless of race, color, religion, general, natural origin, disability or veteran status.

### Clive Samuels and Associates

105 College Road East 105 College Road East 105 College Road E  
Princeton, NJ

## HELP WANTED

### WANTED – TOP NOTCH ENGINEERS / TECHNICIANS!!

Specializing in hands-on field testing and evaluation of HVAC systems and site utilities, the Dome-Tech Group provides engineering services, energy consulting and project development and implementation to optimize building performance, reduce energy expenses and improve indoor environmental quality. Dome-Tech is actively hiring for the following challenging career positions:

#### **Commissioning Field Technician / Engineer**

The ideal candidate must have 5+ years of field related experience with HVAC systems such as air/water balancing, system start-up and commissioning, service/maintenance, operations and troubleshooting. Experience conducting functional tests of chillers, boilers, AHUs, VAVs and other HVAC equipment required. An engineering or technology degree is desired.

#### **Energy Engineer**

Dome-Tech Energy Advisors is seeking qualified energy engineers to support demand for its energy consulting services. The ideal candidate will possess either a BSME or BSEE (PE, CEM desired) with experience in energy auditing, project screening and energy engineering.

#### **Project Engineer**

Dome-Tech Energy Solutions (DES) is seeking qualified project engineers to support the growing demand for our turnkey design/build services. The ideal candidate will possess a BSME (PE, CEM desired) and mechanical design experience with central plant utility systems (chilled water & steam). Candidate must have design experience in heating / cooling load calculations, pipe sizing and pressure drop calculations, combined heat and power analysis, and energy conservation measures, including life cycle cost analysis.

#### **Sr. Project Engineer – Pump Systems**

Dome-Tech Energy Solutions (DES) is seeking a qualified project engineer to support the growing demand for pump system projects for our municipal and utility customers. The ideal candidate will possess a BSME and have experience identifying and analyzing root causes of pump system degradation or failure. Candidate must be able to identify opportunities to improve pump system performance (repair, upgrade, replace) as part of energy conservation management program. Experience with numerous pumps / pumping system designs is essential – utility, HVAC and process pumps.

\*\*\*\*\*

**Salary / Benefits:** Competitive salary commensurate with experience, medical/dental benefits, 401K, flexible spending account, paid vacation and holidays.

Please email resumes to [recruiting@dome-tech.com](mailto:recruiting@dome-tech.com) or fax to 732-590-0129.

**Joe Martino, Technical Staffing**

**Phone: (732) 590-0122, ext. 133**

**Fax: (732) 590-0129**

**E-mail: [recruiting@dome-tech.com](mailto:recruiting@dome-tech.com)**

**Website: [www.dome-tech.com](http://www.dome-tech.com)**

**Statements made in this publication are not expressions of the Society or of the Chapter and may not be reproduced without permission of the chapter.**

## HELP WANTED

HVAC Engineer wanted for Princeton, New Jersey consulting firm. Experience in design of HVAC systems for institutional and commercial buildings required. AutoCad proficiency is a must. Position is for a hands-on, production oriented individual.

Our firm provides full building systems design services for a variety of building types, including theaters, government, university and historical structures.

Work is interesting and challenging in an informal atmosphere with opportunity for advancement.

Candidate should have worked at a consulting firm doing similar work for a minimum of two years.

Four year college degree desirable, EIT a plus.

Send resumes to [contact@pegllc.com](mailto:contact@pegllc.com).

*Princeton Engineering Group, LLC*

*100A Forrestal Road*

*Princeton, NJ 08540*



## SHINE ENGINEERING, P.A.

Shine Engineering a multi-disciplined engineering firm seeks HVAC Design Engineer with a minimum of 3 years experience in designing commercial spaces. Must be proficient with AutoCAD. This represents an excellent opportunity to work for a small company and learn all phases of the business including project management, design, engineering and building surveys.

### Qualifications:

- Excellent communication skills and have ability to articulate conceptual ideas with clients.
- BSME Required
- Autocad

### Responsibilities:

1. Mechanical design engineer on multiple projects from schematic through construction phases.
2. Complete design and specifications with supervision.
3. Coordinate project work between mechanical, electrical & plumbing engineering's.

### Salary/Benefits:

Competitive salary, 100% full medical, retirement plan

Submit resume via email with salary requirement to: [john@shineengineering.com](mailto:john@shineengineering.com)

**SHINE ENGINEERING, P.A.**

**6 Renshaw Drive**

**Montville, New Jersey 07045**

Tel (973) 402-2125 Fax (973) 402-2126



## **HELP WANTED**

Arup is a leading international planning & design firm comprised of about 7,000 employees worldwide in 70+ offices. We are involved in the design of some of the most prestigious building & transportation projects locally & worldwide.

Due to the growth of our NY and NJ office locations Arup is currently accepting resumes for the following positions:

- Sr. HVAC Design Engineer (NJ)**
- Tunnel Ventilation Design Engineer (NY)**
- Mid Level HVAC Design Engineer (NY)**
- Mid – Senior Level Electrical Engineer (NY/NJ)**
- Civil Engineer (w/ I Rail or In Roads exp.) (NY)**

To apply & for a full listing of current job vacancies please visit our website at [www.arup.com/americas](http://www.arup.com/americas) .

## SOCIETY NEWS.....

### 20 Projects Funded

#### Clear Ice Maker Developed Through ASHRAE Grant

ATLANTA – Improved refrigeration technology and beautification come together in a teaching project being funded by ASHRAE.

Through a grant from ASHRAE, students at Pennsylvania College of Technology will design and build a large-scale, clear ice maker for their refrigeration lab. The device also will be used by students in the School of Hospitality for decorative ice carvings.

Twenty grants, totaling some \$118,000, have been awarded by ASHRAE to colleges and universities worldwide to promote the study and teaching of HVAC&R, encouraging undergraduate students to pursue related careers. The grants are used to design and construct projects.

Currently, students in the college's hospitality school use small clear ice blocks that include an unattractive seam where they are connected. The HVAC construction and design technologies students will build a device that produces a large volume, monolithic clear ice structure suitable for carving, which is more attractive than the seamed ice.

To do so, they will use mechanical refrigeration with an intermediate cooling fluid routed through a custom enclosure. The design also includes a reverse osmosis unit for water purification and a custom water distribution system to introduce the treated water into the enclosure. Heating strips will be incorporated to facilitate removal of the clear ice, while PLC controls are used to automate the water flow and freezing rates.

"The device will improve upon the state-of-the-art refrigeration systems used in developing optically clear ice," Thomas Ask, faculty advisor, said. "The final product also will be beneficially used and appreciated by those in our school of hospitality."

Other ASHRAE grant recipients are:

Alfred (New York) State College, Multi-Zone Natural Gas Fired Radiant Heating System

American University of Beirut, Experimental Study of a Combined Solar Desalination and Air-Conditioning

Unit

De La Salle University, Manila, Design, Fabrication and Testing of Cold Thermal Storage System with

Provisions for Occupancy Sensor

De La Salle University, Manila, Development of an Energy Efficient Indoor Air Treatment Intelligent System

East Carolina University, Design and Construction of a Laboratory Unit for Testing the Characteristics of Axial

Flow Fans

Grove (Pennsylvania) City College, Refrigeration Laboratory Experiment and Instruction Aid

Jimei University, Fujian, China, Design and Construction of an Experimental Facility for Variable Air Volume

Systems

Lamar University, Beaumont, Texas, Solar Water Heating System Demonstrator

Louisiana Tech University, Design and Construction of Thermal Components Test Stands

Purdue University, Integration of Solar Heating with HVAC System

Rochester Institute of Technology, Laminar/Turbulent Pipe Flow Lab

The Catholic University of America, Washington, D.C., Two-Phase Thermal Loop for Undergraduate Thermal

Sciences Laboratory

Trinity University, San Antonio, Texas, Design and Construction of a Secondary Loop System to Measure

Heat Transfer and Fluid Flow of Microencapsulated Phase Change Material Slurry in a Heat Exchanger

Universidad Pontificia Bolivariana, Columbia, South America, Design and Construction of an Energy Storage

Module for the HVAC Lab

University of Cincinnati, Design, Build, Test and Modeling of Novel Radiant Wall Panels for Office/Solar

Home Heating and Cooling Using Thermoelectrics Powered by Solar PV Array

University of Coimbra, Portugal, Building of a Small-Scale Plant for Demonstration of Solar Adsorption

Refrigeration Cycle

University of Kansas, Fan and System Effects Experimental Apparatus

University of Oregon, Thermal Circuiting

University of Windsor (Ontario), Air Diffusion in a Model Room

ASHRAE, founded in 1894, is an international organization of some 50,000 persons. ASHRAE fulfills its mission of advancing heating, ventilation, air conditioning and refrigeration to serve humanity and promote a sustainable world through research, standards writing, publishing and continuing education.

## SOCIETY NEWS.....

### Adventure is a State of Mind: Record Balloonist Speaks at ASHRAE '007

ATLANTA - Bertrand Piccard's nonstop circumnavigation of the Earth in his Breitling Orbiter balloon in 1999 set a milestone in aviation.

As the keynote speaker at ASHRAE's 2007 Annual Meeting, he will share his experiences and how his vision plays a role in the future of engineering. Piccard will speak at the Plenary Session, held Saturday, June 23. Registration is not required to attend.

Also, during the plenary session, Terry Townsend, ASHRAE president, will give an update on the Society, and honors and awards related to Society service will be presented to more than 50 ASHRAE members.

For more information on the meeting, June 23-27, Long Beach, visit [www.ashrae.org/longbeach](http://www.ashrae.org/longbeach).

In his lecture, Adventure is a State of Mind: the Metaphor of the First Around-the-World Balloon Flight, Bertrand Piccard explains how flying in a balloon symbolizes a new relationship between humans, technology and nature.

In this metaphor of life, the balloon is prisoner of the air currents, just as man is prisoner of his convictions, problems or fate. But in the same way as a balloon changes altitude to find the currents that will drive it in a new direction, man can rise professionally, psychologically, philosophically or even spiritually, to become responsible for the direction of his life.

"When we imagine a balloon trip around the world, the first thing that comes to mind is the technical challenges that must be faced -- the equipment, the preparation, the science of predicting weather," Piccard said. "But as it turns out technology and science tell only part of the story of transversing the world in a balloon. The story is really one of adjusting, adapting, using what you know and combining that with what you believe, what your instincts tell you, instincts that have been honed by training and experience. Albert Einstein once said, 'the people who are best at Plan B are the most successful.' Finding Plan B is the story of circling the world in a balloon."

"While ASHRAE members' technical tools and skills are indispensable, they will learn that the spirit in which they use them is what is most important," Terry Townsend, ASHRAE president, said. "As in life, there is no cookbook to find the perfect HVAC&R design or to design the perfect product. In life, you need to adapt, looking to the future and believing in your skills and your preparation. This lesson holds true no matter what your profession but especially for those in the fields of science and technology. Passion and insight coupled with engineering skill is what is required to meet the challenges facing the world today."

Piccard was born in Lausanne, Switzerland, into a family of explorers and scientists. His grandfather was the first person to explore the stratosphere and he invented the bathyscaphe with which his father dived to the deepest point in the oceans.

He studied medicine, became a senior consultant in a psychiatric hospital, and specialized jointly in psychiatry and psychotherapy for adults and children. An expert in hypnotherapy, he is a lecturer and supervisor for the Swiss Medical Hypnosis Society.

Always interested in the study of human behavior in extreme situations, he was one of the pioneers of hang gliding and microlight flying in the 1970s and became European champion in hang-glider aerobatics (1985).

After qualifying as a balloon pilot, he won, with Wim Verstraeten, the first transatlantic balloon race (Chrysler Challenge, 1992) and then initiated the "Breitling Orbiter" project. Captain of the three attempts, he succeeded with the Englishman, Brian Jones, the first non-stop round-the-world balloon flight, achieving the longest flight in terms of both duration and distance in the history of aviation : 45,755 kilometers in 19 days, 21 hours and 47 minutes (capturing a total of seven world records).

Together with Jones and their sponsor, Breitling, he created the Winds of Hope humanitarian foundation to use the financial and media impact of the round-the-world flight to fight forgotten and neglected sufferings on Earth. The first action, implemented in conjunction with the WHO, concerns the fight against Noma, a little known illness which hideously disfigures the faces of thousands of children in very poor countries.

He is author of *Around the World in 20 Days (USA)* or *The Greatest Adventure (UK)*.

ASHRAE, founded in 1894, is an international organization of some 50,000 persons. ASHRAE fulfills its mission of advancing heating, ventilation, air conditioning and refrigeration to serve humanity and promote a sustainable world through research, standards writing, publishing and continuing education.

## SOCIETY NEWS.....

### Registration Open for ASHRAE Indoor Environment Broadcast/Webcast

ATLANTA – To meet the increased expectations of building occupants, designers must be aware of conflicts between first cost economics, productivity and life cycle costs, according to a speaker at ASHRAE's upcoming satellite broadcast.

Buildings that do not meet the needs of the occupants often result in expensive redesign," Dan Int-Hout, a panelist, said. "I will share common sense ideas to help engineers meet these conflicting needs."

Registration is now open at [www.ashrae.org/IEDbroadcast](http://www.ashrae.org/IEDbroadcast) for the free April 18, satellite broadcast and Webcast, Indoor Environmental Design: Practical Solutions to Everyday Problems. The program, which takes place from 1-4 p.m. EDT., will provide specific solutions to the everyday challenges of achieving indoor environmental quality within real-world budget constraints."

Presenter Hoy Bohanon notes that, "Recent changes in ventilation standards may be perceived as making the design more complex. The standards now contain important tools that can be used to guide engineers in making their designs more sustainable. My presentation offers three keys to sustainable ventilation system design that will improve your systems and help you avoid common mistakes."

Bill Coad, president of Coad Engineering Enterprises, St. Louis, Missouri, and past ASHRAE president, will present the program's purpose and scope and introduce the following panel of experts:

Bohanon, owner and consultant, Bohanon Engineering, PLLC, Winston-Salem, N.C. – "Ventilation Systems: Avoiding

Common Mistakes by Using Three Keys for Sustainable Design"

Lew Harriman, director of research, Mason-Grant, Portsmouth, N.H. – "Ventilation Air: First, Do No Harm"

Int-Hout, chief engineer, Krueger-HVAC, Richardson, Texas – "Noise, IAQ and Thermal Comfort – Can You Have

It

All?"

Chris Muller, technical director, Purafil, Inc., Doraville, Ga. – "Behind the Access Door – Advances in Affordable Filtration for IAQ"

Online registration is open for satellite broadcast site coordinators and Webcast participants at [www.ashrae.org/IEDbroadcast](http://www.ashrae.org/IEDbroadcast). Registration for satellite downlink viewers begins March 15. There is no fee for registration. For more information, email [ashrae-satellitebroadcast@ashrae.org](mailto:ashrae-satellitebroadcast@ashrae.org) or call 678-539-1139.

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## SOCIETY NEWS.....

### ASHRAE Seeks Members for Contractor, Design Build Firm Task Group

ATLANTA – Making ASHRAE’s products and services more user friendly for HVAC&R contractors and design build firms is the goal of a new ASHRAE task group.

“Our goal is to provide new and timely educational materials that will fit the need of HVAC&R contractors and design build firms, and to make ASHRAE’s existing technical information more user friendly for them,” Jim Fields, chair of the group, said. “A more active involvement of these disciplines within ASHRAE at the technical level would lead to a better balanced ASHRAE and help to strengthen the level of understanding between design engineers and these other disciplines.”

He noted that given ASHRAE’s focus on sustainability, reaching out to contractors and design build firms was a natural step.

“We must work together to ensure sustainability,” he said. “Successful green buildings are the result of a team effort – owners, designers, contractors and facility managers that work together to produce and maintain facilities that are energy efficient, have healthy environments, provide comfort and safety to occupants while minimizing the impact on natural resources.”

Those interested in joining TG3.HVAC Contractors and Design Build Firms can email [morts@ashrae.net](mailto:morts@ashrae.net) for more information.

ASHRAE has some 100 technical committees, task groups and technical resource groups. These committees drive the ASHRAE research program, support the development of standards, develop and sponsor sessions for the technical program held ASHRAE meetings, review and draft technical articles, special publications and educational courses, and write the ASHRAE Handbook, considered to be the Bible of the HVAC&R industry.

ASHRAE, founded in 1894, is an international organization of some 50,000 persons. ASHRAE fulfills its mission of advancing heating, ventilation, air conditioning and refrigeration to serve humanity and promote a sustainable world through research, standards writing, publishing and continuing education.

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