



*We Make Buildings Work Better for Life™*

## 2010 Spring Training Schedule



# SUSTAINABILITY SEMINAR 2010

**Details Inside**

### Damuth Trane

1100 Cavalier Blvd.  
Chesapeake, VA 23323  
757-558-0200 main  
757-558-9715 fax

### Trane HVAC Parts & Supplies:

1104 Cavalier Blvd.  
Chesapeake, VA 23323  
757-558-8585 main  
757-558-9713 fax

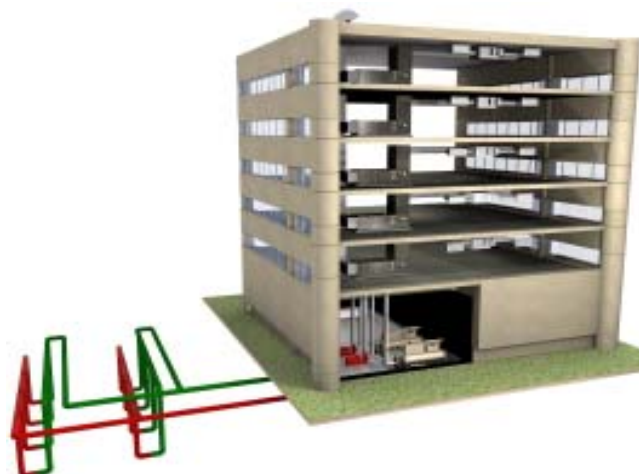
230 Clearfield Ave.  
Suite 126  
Virginia Beach, VA 23462  
757-490-2390 main  
757-490-2937 fax

311 Ed Wright Lane  
Suite E  
Newport News, VA 23606  
757-369-9400 main  
757-369-9401 fax

[www.damuth.com](http://www.damuth.com)

### Spring 2010 Schedule

- Central Geothermal Systems
- Fans in Air Handling Units
- OSHA Training
- CPR and First Aid **NEW!**
- The Two Day Air Conditioning Clinic **NEW!**



TRAINING

# Fans in Air Handling Units

## **TRANE** Satellite Broadcast

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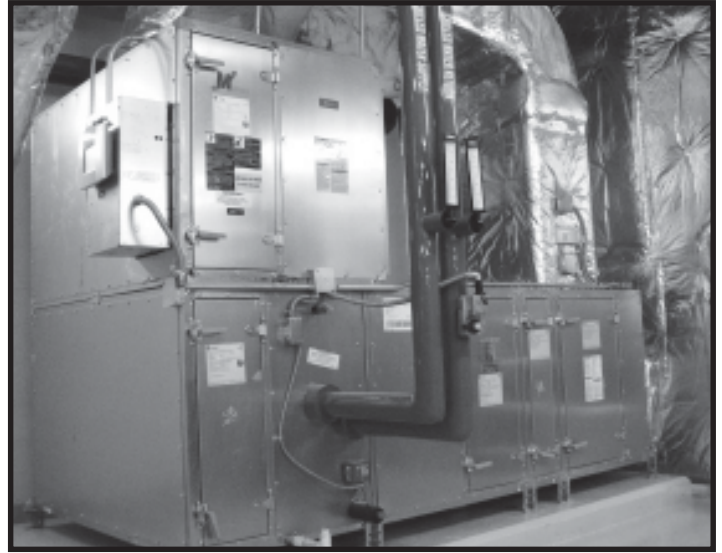
**Date:** Wednesday, March 24, 2010

**Time:** 12:00-1:30 PM (Lunch will be served at 11:30 AM)

**Cost:** FREE!

**Description:** This broadcast will address the application of fans in air-handling systems. Topics will include: fan laws, fan-system interaction (system curve, system effect), fan performance curves, types of fans (shape of fan blade, house vs. plenum fans, belt drive vs. direct drive, single vs. fan array), proper application of various fan types (efficiency, acoustics, AHU footprint).

*This course is eligible for 1.5 CEUs for Virginia Professional Engineer's license. Certificates available upon request. AIA members, please provide your member number on the registration form to receive AIA CEU's.*



# Central Geothermal Systems

## **TRANE** Satellite Broadcast

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**Date:** Wednesday, June 23, 2010

**Time:** 12:00-1:30 PM (lunch will be served at 11:30 AM)

**Cost:** FREE!

**Description:** This broadcast will discuss the benefits, challenges, design and control of central geothermal systems. Many people are familiar with geothermal heat pump systems, using small, "geothermal" heat pumps, distributed throughout the building, that are coupled with a ground source heat exchanger. These systems operate very efficiently since heat rejected to the ground loop in the summer is stored and extracted in the winter. Today, project teams are also considering central geothermal systems consisting of one or two chillers coupled with closed, geothermal loop which exchanges heat with the earth. Such systems offer high energy efficiency, with the additional benefit of centralized maintenance, acoustic advantages, and flexibility.

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# Sustainability Seminar 2010

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**Date:** Wednesday, May 19, 2010

**Time:** 8-11:30 AM (Breakfast will be served at 7:30 AM)

**Instructor:** Eugene "Smitty" Smithart, LEED AP, P.E., Trane Commercial Systems and Controls

**Cost:** FREE!

**Description:**

This forum will discuss ways in which your building can make money for you now and give your company a competitive edge – or how you can help your clients do the same.

The discussion will begin with an update on the latest in systems and designs that provide not only improved sustainability, but also high efficiency. There will also be a section on reducing initial costs as well as operating expenses while enhancing comfort, acoustics, and indoor air quality- all of the things that are important to a productive workforce.

**Key topics will include:**

- Low air temperature & associated control strategies
- Thermal Storage
- Highlights of chilled water EarthWise Strategies (review of key lessons learned)
- Details on series chillers and variable primary flow systems

Join us to discuss how we can ensure sustainable buildings now and into the future.

*This course is eligible for 3.5 CEUs for Virginia Professional Engineer's license. Certificates available upon request. AIA members, please provide your member number on the registration form to receive AIA CEU's.*

## The Two Day Air Conditioning Clinic

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**Date:** Wednesday, March 10-Thursdays, March 11, 2010

**Time:** 8-4:30 PM (each day)

**Instructor:** Elmer Franklin, Ameritech

**Audience:** Facility Managers seeking more knowledge on HVAC Systems and engineers who desire a refresher in topics listed below.

**Cost:** \$400.00 per student (**SPACE IS LIMITED SO RESERVE EARLY!**)

**Description:** The course is a comprehensive battery of 15 sessions designed to give an overview of air conditioning fundamentals and associated systems. Each session deals with a specific area of the many disciplines required to successfully design and install air conditioning equipment. Upon completion the attendee will have a better understanding of the various equipment and systems used in providing comfort cooling today, and be able to identify the individual components and their operation.

Topics include:

- heat load estimation
- psychrometry
- refrigeration system components
- refrigerant piping
- absorption chillers
- centrifugal chillers
- helical-rotary chillers
- fans
- VAV systems
- HVAC controls
- chilled water systems
- water source heat pumps
- ice storage systems

Each student will receive a manual with a book for each the module of the presentations which is a \$200 value.

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Return Service Requested

