

**PENNSYLVANIA PETROLEUM MARKETERS & CONVENIENCE STORE ASSOCIATION**

P.O. Box 68  
Highspire, PA 17034-0068

Please enroll the following in your **INTRODUCTION TO GEOTHERMAL HEAT PUMPS:**

**NAME** (Please PRINT Clearly or TYPE in FULL)

**APRIL 6**

**MAY 20**

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**COMPANY** \_\_\_\_\_

If subsidiary or branch of member, print parent company below:

\_\_\_\_\_

**NO REGISTRATION WILL BE ACCEPTED  
UNLESS ACCOMPANIED BY PAYMENT IN FULL**

**MAILING ADDRESS** \_\_\_\_\_

**CITY** \_\_\_\_\_ **STATE** \_\_\_\_\_ **ZIP** \_\_\_\_\_

**PHONE** (\_\_\_\_) \_\_\_\_\_ **FAX** (\_\_\_\_) \_\_\_\_\_

**AUTHORIZED BY** \_\_\_\_\_

**TITLE** \_\_\_\_\_

**REGISTRATION FEE**  
**\$140.00 per person**  
**CONFIRMATION WILL BE SENT THREE**  
**WEEKS PRIOR TO THE PROGRAM.**  
**Seminar will start promptly on time.**  
**Please allow ample time for road conditions.**

**Authorized E-Mail** \_\_\_\_\_

Check Enclosed for \$ \_\_\_\_\_

Charge my:  MasterCard  Visa  Discover Account Number \_\_\_\_\_ Expiration Date \_\_\_\_\_

Cardholder's Name (Please Print) \_\_\_\_\_ Signature \_\_\_\_\_

*Detach here and mail today!*



**OUR INSTRUCTOR:** Steve Mohr began his HVAC career in 1978 and became a trainer in 1992. The students' participation and response to his hands-on training has been fantastic and adds to Steve's excitement as he pushes forward to offer training second to none.

**PAYMENT POLICY:** Payment can be made by check or credit card. Visa, MasterCard or Discover information may be faxed to PPMCSA at (717) 902-0290.

**CANCELLATION POLICY:** Cancellations will be accepted up to 3 days prior to the program date. No refund will be made unless the cancellation is **received more than 3 days prior to the scheduled program.**

**CERTIFICATE OF TRAINING:** Will be awarded to each student who completes the course and passes the examination. **NO** CEUs are given for this program.

**OVERNIGHT ACCOMMODATIONS:** Lodging, transportation and meals (other than lunch) are the responsibility of the student.



# Education Program

# 2010

## COURSE DATES

### APRIL 6

**PPMCSA TRAINING CENTER**  
Eastwood Office  
Center, Suite 22  
810 S. Eisenhower  
Boulevard  
Middletown, PA  
(717) 902-0210



### MAY 20

**THE INN at CHESTER SPRINGS**  
PA Turnpike, Exit 312  
815 N. Pottstown Pike  
Exton, PA  
(610) 363-1100

**9:00 a.m. - 4:00 p.m.**

# INTRODUCTION TO GEO THERMAL HEAT PUMPS



Utilizing the earth as a heat source or heat sink is by no stretch of the imagination new technology. As early as the 1800's European settlers discovered "Hot Springs" and utilized the natural resource for taking hot baths. In 1892 town buildings were heated with water from "Hot Springs" in Boise, Idaho. Moving ahead in history, in 1948 a professor from Ohio State University develops the first groundwater heat pump for use at his own residence.

It's 2010 and the with the HVAC technology as advanced as it is, manufacturers now have geothermal (ground source) heat pumps available for residences which run with EER's between 20 and 30!!! Because Geothermal Heat Pumps use natural energy from the earth, they are the most efficient and comfortable heating and cooling technologies available today.

Want to learn more about these systems? Steve Mohr will conduct a 1-day seminar for the introduction of geothermal heat pump technology. This seminar will cover the basics of "Geo Systems" to give you an idea of what to expect going into this field.

Topics below will be covered:

1. Economic benefits for a consumer using "Geo" systems, and their ratings
2. Types of "Geo" systems
  - A. Open loop
  - B. Closed loop
3. Basic Piping Practices used for "Geo" systems
4. Mechanical operation of "Geo" heat pump systems

Pre-requisties: Basic knowledge of conventional Air Source Heat Pumps helpful but not necessary.

PPMCSA Training Center limited seating 24

**SIGN UP NOW!!**

**INTRODUCTION TO GEO THERMAL HEAT PUMPS**