Geothermal Heating and Cooling: Technology and Applications
Overland Park, KS - Tuesday, April 14, 2020

You'll be able to:
Apply the laws of thermodynamics to HVAC systems.
Calculate costs and savings of geothermal systems.
Evaluate topography and measure soil conductivity.
Determine loop types, including open loops and vertical and horizontal closed loops.
Choose system components, including pumps, heat exchangers and piping.
Learn about routine maintenance on geothermal systems.

Learning Objectives
Jay Egg Founder and Consultant with EggGeothermal
After serving in the US Navy nuclear power field, Mr. Egg began a career in mechanical design engineering and contracting in 1990, and he founded EggGeothermal in Florida to provide HVAC solutions to the public. He currently focuses his professional efforts as a renewable energy expert on geothermal energy utility efforts, solar/geothermal exchange implementation, and aquifer related environmental issues, permitting, feasibility and variances or special permitting such as utility-scale geothermal exchange systems. Using down-to-earth learning patterns, Mr. Egg provides technical validation and insightful speaking and training engagements. Among his clients are international, federal, state and local governments; developers; associations; and private entities. Mr. Egg has written two books for McGraw-Hill Education.

EggGeothermal is a voting member on the International Ground Source Heat Pump Associates (IGSHPA) Advocacy Committee. Mr. Egg is a member of the Uniform Solar Energy and Hydronics Technical and the Uniform Mechanical Code Committee for the International Association of Plumbing and Mechanical Professionals (IAPMO); training and curriculum writer/facilitator for IGSHPA and for the U.S. Department of Energy (DOE) and past technical adviser to the New York State Energy Research and Development Authority (NYSERDA) and the Province of Ontario, Canada on renewable heating and cooling.

Here’s what past attendees had to say about the program and presenter Jay Egg:

“Great speaker!” - Mechanical Engineer

“Fantastic presenter and instructor. Jay was informative and humorous too!”

– Geotechnical Engineer

“Outstanding seminar. Packed with relevant information.”

– Engineer

“Engaging and his interest in the topic is contagious.”

– Architect

### Additional Learning

#### Webinar Series

- **Foundation Damage and Repair**
  - Design & Geo-Environmental Loading, Building Codes, Soil Properties
  - Wed., March 4, 2020, 11:00 AM - 12:30 PM CST
  - Foundation-Slab Wall Design and Construction
  - Wed., March 4, 2020, 1:00 - 2:30 PM CST
  - Evaluation of Foundation-Slab Damage and Repair Alternatives
  - Thurs., March 5, 2020, 11:00 AM - 12:30 PM CST
  - Evaluation of Foundation Wall Damage and Repair Alternatives
  - Thurs., March 5, 2020, 1:00 - 2:30 PM CST

- **Solar Photovoltaic**
  - Project Design and Development
  - Solar Photovoltaic Project Design and Development, Part I
    - Wed., March 4, 2020, 11:00 AM - 2:30 PM CST
  - Solar Photovoltaic Project Design and Development, Part II
    - Thurs., March 5, 2020, 11:00 AM - 2:15 PM CST

#### International Residential Code

- **Development and Enforcement of International Residential Code**
  - Thurs., March 12, 2020, 11:00 AM - 12:00 PM CDT
  - IRC Building Planning and Shell Construction, Part I
    - Thurs., March 12, 2020, 1:00 - 2:30 PM CDT
  - IRC Building Planning and Shell Construction, Part II
    - Fri., March 13, 2020, 11:00 AM - 12:30 PM CDT
  - IRC Energy Efficiency and Building Systems
    - Fri., March 13, 2020, 1:00 - 3:00 PM CDT

For more information and other online learning opportunities visit: www.halfmoonevents.org/webinars/

### Tuition

- **$299** for individual registration
- **$279** for three or more simultaneous registrations.

**How to Register**

- **Online:**
  - www.halfmoonevents.org
  - Register online or call customer service at 715-835-5900

- **Mail-in or fax the attached form to 715-835-6066**

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**Cancellations:**

- Cancelled at least 48 hours before the start of the seminar, and receive a full tuition refund, minus a $39 service charge for each registrant. Cancellations within 48 hours will receive a credit toward another seminar or the self-study package. You may also send another person to take your place.

**Continuing Education Credit Information**

This seminar is open to the public and offers 6.5 PDHS to professional engineers and 6.5 PDHS to professional architects in all states. Educators and courses for engineers are not subject to preapproval in Kansas.

This event is approved by the American Institute of Architects Continuing Education System for 6.5 LU|HSW (Sponsor No. 888). Visit www.halfmoonevents.org for complete AIA/CEES information under this course listing. Only full attendance is reportable to the AIA/CEES.

HalfMoon Education is an approved continuing education sponsor for engineers in Florida, Indiana (License No. CE21700059), Maryland, New Jersey (Approval No. 24G00000700), North Carolina, and North Dakota. HalfMoon Education is deemed an approved continuing education sponsor for New York engineers and architects.

This seminar offers a non-credit continuing education opportunity to construction contractors. It is not approved by any state licensing entity for contractor continuing education credit.

Attendance will be monitored and attendance certificates will be available after the seminar for most individuals who complete the entire event. Attendance certificates not available at the seminar will be mailed to participants within fifteen business days.

Can't Attend? Order the Manual and Audio from the Live Seminar as a Self-Study Package!

Audio recordings of this seminar are available for purchase starting at $279. See registration panel for more information and please refer to specific state licensing rules or certification requirements to determine if this learning method is eligible for continuing education credit.