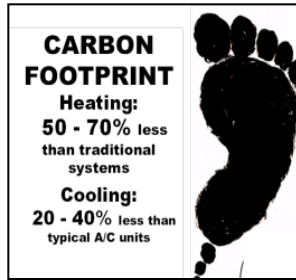


# GEORGIA GEOTHERMAL WORKSHOP HEATING AND COOLING



***“Geothermal heat pump systems are the most energy efficient, environmentally friendly, clean and cost-effective space conditioning systems”***  
US Environmental Protection Agency

**Georgia Ground-source Heating & Cooling Workshop,  
Thursday September 24th, 2015  
8:00am to 4:45pm**

**\*ASHRAE HQ Building, 1791 Tullie Circle, Atlanta, GA 30329**

*\*American Society of Heating, Refrigerating and Air-Conditioning Engineers*

## WHO SHOULD ATTEND?

This program is geared to potential end-users and to professionals who design, install, inspect, maintain, approve, recommend or regulate geothermal systems. Geothermal is the technology of choice among energy conscious home buyers and commercial property owners considering “green energy” options for commercial or residential installations. Don’t miss the opportunity to get up to speed with this technology

### CONTINUING EDUCATION CREDIT

ARCHITECT CREDITS – 7.25 LUs (FOR HSW) COURSE GS1405-L  
THRU AMERICAN INST. OF ARCHITECTS (PROVIDER #G521)  
IGSHA ACCREDITED INSTALLERS – 0.75 CEU's

Workshop Convened by: **American Ground Water Trust** 501(c)(3) Education Organization



In cooperation with



### **BONUS! (only for registered workshop attendees)**

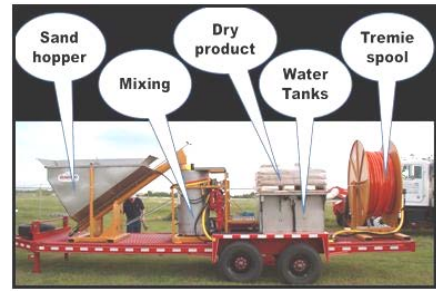
Registration includes options of a pre-program visit to Serenbe Urban Village (40 minutes from downtown Atlanta) (4:00pm, Sept 23) and/or a post-program visit to Agnes Scott College (20 minutes from the ASHRAE HQ) ( 5:00pm, Sept 24). At both sites there will be an explanation of the design and operation of the geothermal heat exchange system. (Details at [www.agwt.org/events](http://www.agwt.org/events)) Options to sign-up for visits available when registering.

## PRESENTATIONS

- 7:00 – 8:00      **REGISTRATION**
- 8:00 – 8:15      **Andrew Stone, Executive Director, American Ground Water Trust, Concord, NH**  
**THE ROLE OF EDUCATION IN PROMOTING GEOTHERMAL TECHNOLOGY**
- 8:15 – 8:45      **Deborah Fritz, Senior Associate, Lord Aeck Sargent (Architects), Atlanta, GA**  
**GEOTHERMAL: THE BENEFITS FOR ARCHITECTS AND THEIR CLIENTS**
- 8:45 – 9:25      **Paul McCarty, Mechanical Engineer, US Army Engineering and Support Center, Huntsville, AL**  
**GROUND SOURCE HEATING AND COOLING: HOW IT WORKS AND BASIC DESIGN CONFIGURATIONS**
- 9:25 – 10:05     **Dustin Gregoire, Bosch Thermotechnology Corp., Dallas, TX**  
**AN EVOLVING MARKET – MAINSTREAMING OF GEOTHERMAL**
- 10:05– 10:25     **BREAK**
- 10:25 – 11:05     **Keith Swilley, Marketing Manager, Gulf Power Company, Pensacola FL**  
**SUCCESS STORIES, MARKET POTENTIAL AND MARKET PREDICTIONS FOR THE GEOTHERMAL INDUSTRY IN THE SOUTHEAST**
- 11:05 – 11:45     **Mark Whittle, Senior Field Services Technical Representative, Baroid IDP, Lexington, SC**  
**GEOEXCHANGE WELL / BORE CONSTRUCTION AND LOOP INSTALLATION**
- 11:45 – 12:25     **Chuck Hammock, Partner, Andrews, Hammock & Powell, Inc., Macon, GA**  
**GAME CHANGING GEOTHERMAL INNOVATIONS: BOREHOLE THERMAL ENERGY STORAGE, AQUIFER THERMAL ENERGY STORAGE AND DISTRIBUTED TEMPERATURE SENSING/INSTRUMENTATION VIA UNDERGROUND FIBER OPTIC CABLE**
- 12:25 – 1:25      **LUNCH**
- 1:25 – 2:05      **Paul Bony, Director of Renewables and Contractor Development, Electric and Gas Industry Association, Sacramento, CA**  
**CONSUMER FINANCING - AN IMPORTANT (AND UNDERUTILIZED) BRIDGING TOOL FOR THE GHP MARKET**
- 2:05 – 2:45      **Brandon Cave, Commissioning and Test /Balance Supervisor, Andrews, Hammock & Powell, Inc., Macon, GA**  
**NEXT GENERATION LAYERED THERMAL CONDUCTIVITY TESTING IS NATIONALLY DEBUTED IN GEORGIA**
- 2:45 – 3:00      **BREAK**
- 3:00 – 3:40      **Dr Xiaobing Liu, Oak Ridge National Laboratory, Oak Ridge, TN**  
**PERFORMANCE COMPARISON OF GHP AND VRF SYSTEMS INSTALLED AT ASHRAE HQ BUILDING**
- 3:40 – 4:20      **Susan Kidd, Director of Sustainability, Agnes Scott College, Decatur, GA**  
**OWNER PERSPECTIVE & (OWNER/ARCHITECT/ENGINEER) PANEL DISCUSSION OF THE GEOTHERMAL SYSTEM AT CAMPBELL HALL, AGNES SCOTT COLLEGE**
- 4:20 – 4:30      **Q & A - ALL PRESENTERS AND WRAP UP**
- 4:30                **END**
- 5:00 – 6:00      **Site visit, technical explanation and cold beer/wine: (8 miles south of the ASHRAE HQ)**  
**THE SEASONAL COLD STORAGE GEOTHERMAL HEAT PUMP SYSTEM AT AT CAMPBELL HALL - AGNES SCOTT COLLEGE**



**CONDUCTIVITY TESTING**



**GEOHERMAL GROUTING**

Geothermal is alive and well and growing as the technology of choice for heating and cooling of residential, commercial, church and industrial buildings. This workshop brings the industry's top geothermal experts from design, manufacture and installation to focus on the market potential for the technology. Take the time to attend this workshop and get the state-of-the-art update. Meet with industry leaders and experts who will answer your questions about the economics and benefits of installing geothermal in your building as retrofit or new installation.

**SPONSORS of American Ground Water Trust 2015 Geothermal Workshops**



**BOSCH**



Preferred Pump



In cooperation with:  
International Ground Source Heat Pump Association