

# NEW ENGLAND GEOTHERMAL WORKSHOP HEATING AND COOLING



**CARBON FOOTPRINT**

**Heating:**  
50 - 70% less than traditional systems

**Cooling:**  
20 - 40% less than typical A/C units



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



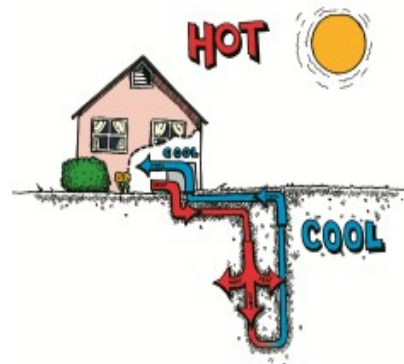
In partnership with:  
**New England Geothermal Professional Association**



**Wednesday, December 9<sup>th</sup>, 2015 - 8:00am to 4:30pm**  
**Taco Innovation and Development Center**  
**Taco, Inc., 1160 Cranston Street, Cranston, Rhode Island 02920**

**CONTINUING EDUCATION CREDIT**  
**ARCHITECT CREDITS – 7.25 LUS (FOR HSW) COURSE GS1405-M**  
**THRU AMERICAN INST. OF ARCHITECTS (PROVIDER #G521)**  
**IGSHA ACCREDITED INSTALLERS – 0.75 CEU'S**

## SPONSORS of this American Ground Water Trust Geothermal Workshop



Preferred Pump



In cooperation with International Ground Source Heat Pump Association

## PROGRAM AND PRESENTERS

7:00 – 8:00

**REGISTRATION** (Coffee & donuts)

8:00 – 8:15

**THE ROLE OF EDUCATION IN PROMOTING GEOTHERMAL TECHNOLOGY**

Andrew Stone, Executive Director, American Ground Water Trust, Concord, NH

8:15 – 8:55

**UPDATE ON GEOTHERMAL REGULATORY ISSUES, INCENTIVES AND TAX BREAKS IN NEW ENGLAND**

Martin Orio, V.P. Business Development, Water Energy, Hampstead, NH

8:55 - 9:35

**GROUND SOURCE HEATING AND COOLING: HOW IT WORKS AND BASIC DESIGN CONFIGURATIONS**

Chuck Hammock PE, Principal, Andrews, Hammock & Powell, Inc, Macon, GA

9:35 – 10:15

**GEOTHERMAL UTILITIES; DISTRICT GEOTHERMAL SYSTEMS; DISTRICT GEOTHERMAL PLANTS**

Jay Egg, CMC, President, Egg Geothermal, Tampa, FL

10:15 – 10:30 **BREAK**

10:30 – 11:10

**GET THE OUTSIDE WORK RIGHT! GEOEXCHANGE BORE CONSTRUCTION AND LOOP INSTALLATION**

Jeff Quinn, Account/ Field Representative, Baroid IDP, Nottingham, NH

11:10 – 11:50

**BENEFITS OF BENEFITS OF COMBINING GEOTHERMAL WITH CHILLED BEAM SYSTEMS**

Greg Cunniff, Taco Applications Engineer, Taco Inc., Cranston, RI.

11:50 - 12:30

**GAME CHANGING GEOTHERMAL INNOVATIONS:**

**BOREHOLE THERMAL ENERGY STORAGE, AQUIFER THERMAL ENERGY STORAGE AND DISTRIBUTED TEMPERATURE SENSING BY UNDERGROUND FIBER OPTIC CABLE**

Chuck Hammock PE, Partner, Andrews, Hammock & Powell, Inc., Macon, GA

12:30 – 1:15 **LUNCH**

1:15 – 2:00

**TOUR OF TACO'S FACTORY AND HVAC INSTALLATION EXHIBITS**

Richard Medairos PE, Director of Engineered Products & Systems Training, Taco, Cranston, RI.

2:00 – 2:45

**HEAT TRANSFER EFFICIENCY OF THERMALLY ENHANCED HDPE PIPE FOR GEOTHERMAL**

Stephane Gonthier, President, Versaprofiles, Saint-Lazare de Bellechasse, Quebec, Canada

2:45 – 3:00 **BREAK**

3:00 – 3:40

**GEOTHERMAL FOR NET ZERO MULTI-FAMILY AFFORDABLE HOUSING**

Jim Moran, President, Advanced Energy Group, Ann Arbor, MI

3:40 – 4:20

**INTEGRATING VRF WITH GEOTHERMAL CLOSED LOOP SYSTEMS**

Greg Hosselbarth, CEM, LEED AP BD+C, Commercial Regional Manager, Mitsubishi Electric HVAC

4:20 – 4:30

**ROUND-UP OF WORKSHOP PRESENTATIONS AND Q & A**