IGSHPA’S EDUCATION, TRAINING AND RESEARCH ROLE IN THE GEOTHERMAL INDUSTRY

Recent → Future

October 15, 2014
Components and Connections

Industry based Advisory Council

Committees
- Training
- Marketing
- Research
- Standards
- Membership

Members

CEAT
OSU Staff
- Director
- Training
- Conference and Membership
- Publications
- Finance & HR

Members
Outcomes and Services

Initial Membership

Research

Best Practices & Standards

Accredited Courses

AI
CGD
Drillers
Building Load Analysis (BLA)

Continuing Membership

Technical Conference & Expo

Geo Outlook

Technical Briefs

Continuing Education

Technology Advocacy
Current Members

Membership as of June 2014

4,500
IGSHPA COURSES

Accredited Installer Workshop
- Design and Material Options
- Pipe Joining Techniques
- Air and Debris Purging

Accredited Driller Workshop
- Grouting Concepts
- Cutting and Drilling Fluids
- Job site preparation and exit

Certified GeoExchange Designer Course
- The economic case for GSHP
- Design options for commercial buildings for engineers/architects

Building Load Analysis & Pumping Course
- Energy calculations and building simulation
- Pumping design for GSHP
Training materials

- Slinky Installation Guide
- Design & Installation Standards
- Soil & Rock Classification Field Manual
- Grouting for Vertical GHP systems
- Design & Installation Guide
- Original Installation Guide
- Understanding Geothermal
Recent Developments - Logistics
2009 → Present

IGSHPA moves to the Morgan Building at the Technology Park

- Excellent classroom facilities
- Excellent teaching laboratory
Recent Developments - Organization

2009 → Present

• Assistant Dean of Outreach & Extension – Dr. Ed Kirtley

• IGSHPA is now an independent outreach organization within the CEAT
Even factoring in the downturn of housing, the current membership does not have the connection with the association that is required to move the industry forward.

- Lower Membership (new members)
- Lower Returning Members (renewals)
IGSHPA Self Analysis

Industry Stakeholders

• The Industry Stakeholders are not sufficiently involved in strategic planning and governance of the association.
IGSHPA Self Analysis

Research

• University based research has not been sufficiently applied to the body of knowledge leading to innovations
• Initial and continuing training has not evolved to take advantage of advances in technology, skills and teaching methods.
The Beginning

The 2.0 Design Team - retreat May 14-16
The Beginning
The 2.0 Design Team

**Advisory Council**
Trey Austin
Dean Grunseth
Ted Striplin
Phil Schoen
Chris Smith
Jack Henrich
John Turley
Randy Chambers
Brian Urlaub

**Designers / Trainers**
Ed Lohrenz
Terry Proffer
Garen Ewbank

**Utilities and Associations**
Jeromy Cotten
Mark Metzner
Kevin McCray

**IGSHPA Committees**
Jack DiEnna
Howard Newton
Lisa Meline
Allan Skouby

**IGSHPA Staff**
Bob Ingersoll
Abhishek Ghale
Roshan Revankar
Erin Portman

**OSU College of Engineering**
Ed Kirtley
Dan Fisher
The Beginning
The Consultant Process

Glenn Tecker
The Re-design Process

Highlights

Core Ideology, Mission, Big Audacious Goal

Goals, Objectives & Strategies

Goal A: Environment

Goal B: End Users and Utilities

Goal C: Industry Members

Goal D: Education
Re-design Outcomes

Big Audacious Goal

Be the global catalyst for GHP’s expansion from market niche to market leader
Re-design Goals

Goal A: Environment

The environment will benefit from carbon reduction as GSHP technology is recognized as energy efficient and renewable.
Re-design Goals

Goal B: End Users and Utilities

GSHP systems will reach or exceed 25% of HVAC market share as end users and utilities realize the value of GSHP’s in reducing demand and consequent fossil fuel use. End users recognize and appreciate the benefits and value of GSHP and confidence in the technology is at an all-time high.
The Re-design Goals

Goal C: Industry Members

Industry professionals will be positioned to become leaders in the HVAC industry.
The Re-design Goals

Goal D: *Education*

Research based GSHP education and training will be universal among our trades and endorsed by certifying agencies.
Association Structure for Strategic Planning, Governance and Implementation

- Board of Directors
- Advisory Council
- Affiliated Organizations
- Industry Sectors
- Committees
- CEAT
- IGSHPA Director
- Staff

Ex-officio
Association Structure for Strategic Planning and Governance

- Board of Directors
- Advisory Council
  - Affiliated Organizations
  - Industry Sectors
  - Committees
Association Structure for Implementation

- CEAT
- IGSHPA Director
- Staff
Example of detail in the strategic plan
Board of Directors composition and selection

- Number - 10
- Nominated by advisory council (nominating committee) annually and elected by voting members
- One appointed by OSU
- IGSHPA director ex-officio
- No more than 2 members from each council sector or company
- Consider 2 “at-large” members appointed by BOD
- Voting member
We are increasing the number of volunteers required for Committees, Council, and the Board
We need the new ideas and energy of those not involved in the past to support the change