



# New Concepts

**30th October 2015**

**8:30 am to 5 pm Penthes Geneva**

# Today



- **Dream – how high can geothermal use go**
- **Growing geothermal energy**
- **Great opportunities for networking**
  - Broadening your geothermal connections
- **Thank you**
  - Gunter Siddiqi, SFOE for hosting
  - Katharina Link for the inspiration for today
  - Geothermal ERA-NET for working together
  - Presenters

# Introduction - Brian Carey



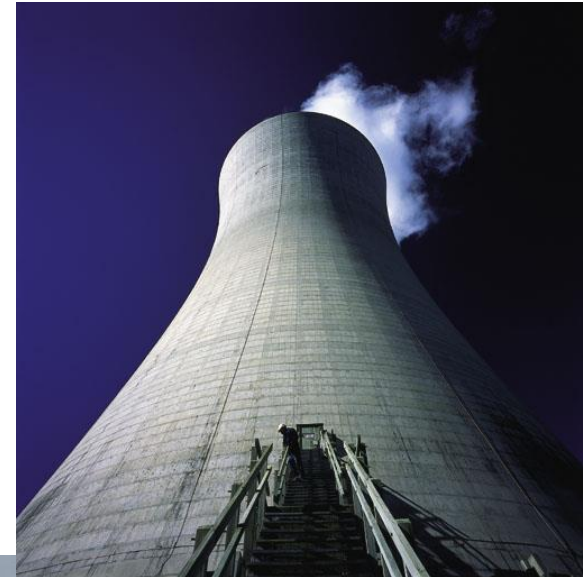
- **Geothermal Resource Management Specialist**
  - GNS Science
- **President**
  - New Zealand Geothermal Association
- **Chair**
  - Geothermal Heat Pump Association of NZ
- **Executive Secretary**
  - IEA Geothermal
- **Co - organiser**



# Geothermal at Heart



- 30 + years in Geothermal Energy
  - 1981 to now
- 20 + years – resource operations
  - 1985 - 2007
- Trained
  - Mechanical Engineer

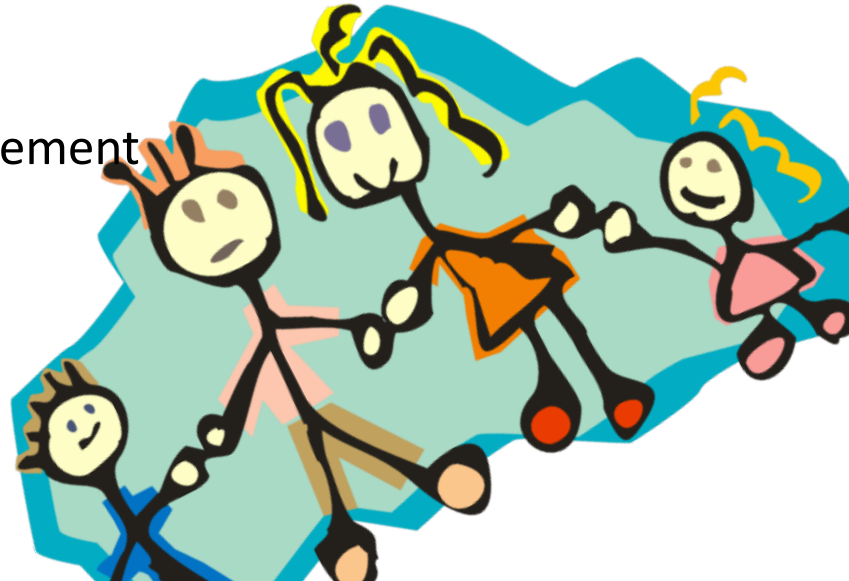


# IEA Geothermal



- **Cooperation and collaboration**
  - National, organisational and industry geothermal programmes
- **17 members**
- **Sharing Information**
- **Developing technologies, techniques and best practice**
- **Preparing & disseminating authoritative information**
- **Operative since March 1997**
  - IEA - Geothermal Implementing Agreement

IEA - GIA



# 17 IEA Geothermal Members



## ➤ **13 Countries.**

Australia, France, Germany, Iceland, Italy, Japan, Mexico, New Zealand, Norway, Republic of Korea, Switzerland, United Kingdom, United States.

## ➤ **European Commission**

## ➤ **Three Industry / Organization Members**

Ormat

CanGEA

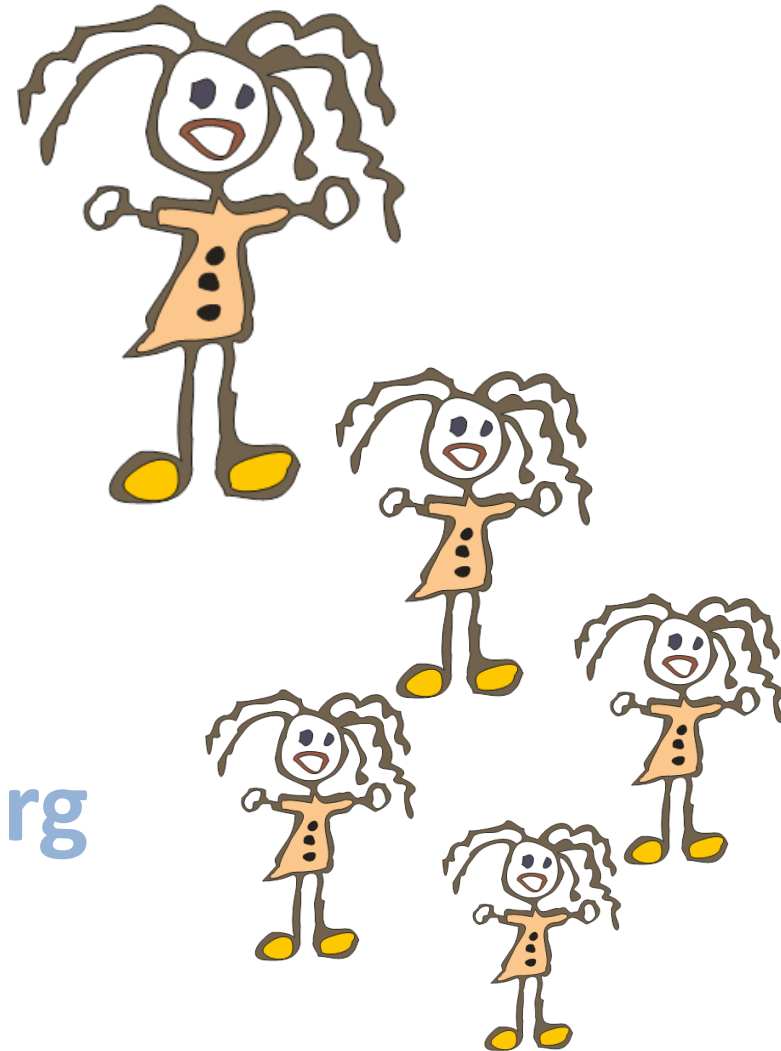
APPA

# Technical Activity



- **Working Groups**
  - Called Annexes
- **Geothermal has five**
  - Environmental
  - Direct Geothermal
  - Deep Roots of Volcanic Systems
  - Emerging Geothermal Technologies
  - Data and Information Collection
- **Web presence**

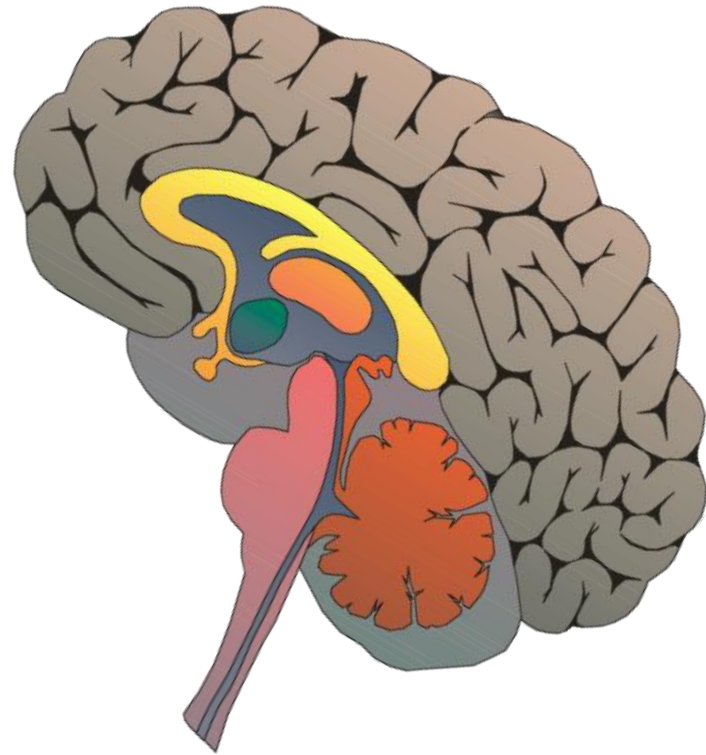
[www.iea-gia.org](http://www.iea-gia.org)



# Great Information



- Trend reports
- Country reports
- Annual Summary Reports
- Technical Reports
- Workshop Presentations





# Direct Use - Annex VIII

## Includes Geothermal Heat Pumps



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## ANNEX VIII – DIRECT USE

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### Annex VIII- Direct Use of Geothermal Energy

**Operating Agent:** GEOTHERMIE.CH, Swiss Geothermal Society, Switzerland

**Annex Leader:** Katharina Link, Dr. Roland Wyss GmbH, Switzerland

**Status:** Ongoing

**Participants:** CanGEA, France, Iceland, Japan, New Zealand, Republic of Korea, Switzerland, United Kingdom, United States

**Description**



<http://www.iea-geo.org/work-program/annex-viii/>

# Direct Use



## Lead by Katharina Link

Dr. Roland Wyss GmbH, Switzerland

Email: [link@rwgeo.ch](mailto:link@rwgeo.ch)

### **A New and innovative direct use applications**

Brian Carey, GNS Science, New Zealand

### **B Communication**

Alison Thompson, CanGEA, Canada

### **C Guidelines for Geothermal Energy Statistics**

Jonas Ketilsson, Orkustofnun, Iceland

### **D Guidelines for GSHP statistics**

Yoonho Song, KIGAM, Korea

### **E Design Configuration and Engineering Standards**

Rudolf Minder, SFOE, Switzerland

# Direct Use - Objectives



- **Cooperation and sharing**  
International arena
- **Increasing the use of direct geothermal energy technologies**
- **Raising awareness of the advantages of direct geothermal**
- **Targeting several different topic workshops each year**

# Get involved



- If your nation is a member of IEA Geothermal
  - You can be actively involved in leading work activity.
- If not organise your government to join, or
- Work with a sponsor organisation to join.

# Future Workshops



- Geothermal cooling
- Direct use
  - Mexico, and Central and South America
- Keep a look out

# Today's Programme



## ➤ **Fantastic**

Variety

Novelty

Conceptual

Implemented

## ➤ **Paul Ramsak will introduce the programme**

## ➤ **From IEA Geothermal a very big thank you**

Katharina Link

Paul Ramsak

Alicja Stoklosa

Hjalti Ingolfsson



**Enjoy**