



AGENDA

Geothermal Modeling Workshop

Wed 5th – Thurs 6th November, 2008

(Presented by Intrepid Geophysics, sanctioned by the Australian Geothermal Energy Group and incorporating meetings for AGEG Technical Interest Groups 9 and 10)

Venue: University of Adelaide, Ground Floor Conference Room,
Santos Petroleum Engineering Building

Wednesday 5th November

Registration and Software installation	Intrepid staff	8.30-9.00
Welcome and Overview of TIG-9	Helen Gibson (Intrepid)	9.00-9.10
Principles of heat flow theory		
Definitions; Units; Equations	Kurt Stüwe (Uni Graz)	9.10-11.00
<i>Coffee Break ~11.00-11.20</i>		
Implementation in GeoModeller	Kurt Stüwe (Uni Graz)	11.20-11.45
GeoModeller: Building Geology Models	Phil McInerney (Intrepid)	11.45-12.05
GeoModeller: Geothermal User Interface	Helen Gibson (Intrepid)	12.05-12.30
Discussion		12.30- 12.45
<i>Lunch Break 12.45-1.45</i>		
Unit testing:		1.45 - 2.30
Temperature calculation & derived products	Ray Seikel (Intrepid)	
3D GeoModeller:	Antonio Guillen (IG/BRGM)	2.30- 3.30
Theory and new developments		
<i>Coffee 3.30 – 4.00</i>		
Planned geothermal module improvements		
Computational speed;		
Temperature-dependence of physical properties	Kurt Stüwe (Uni Graz)	4.00-4.20
Variable property law; uncertainty and heat resource estimation	Ray Seikel (Intrepid)	4.20- 4.35
Software Development Strategies	Helen Gibson (Intrepid)	4.35- 4.45
Discussion		4.45- 5.00

Specialising in Geophysical Processing and Interpretation Systems

Thursday 6th November**Case studies**

Soultz Project Update	Philippe Calcagno (BRGM)	9.00-9.20
Mt Painter geology and temperature modelling	Helen Gibson (Intrepid)	9.20-9.55
Cooper Basin: gravity, geology and 3D temperature	Tony Meixner (GA)	9.55-10.30

Coffee Break 10.30 – 11.00

Limagne (Massif Central, France) 3D geology & Geowatt modelling	Philippe Calcagno (BRGM)	11.00-11.20
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Advection session

Advection theory	Kurt Stüwe (Uni Graz) & Peter Leary (IES&E)	11.20-11.45
Building fault networks in GeoModeller	Gabi Courrioux (BRGM)	11.45-12.20
Reservoir modeling: New Zealand case study	Juliet Newson (Uni Auckl.)	12.20-12.45
Discussion (Advection)		12.45-1.00

*Lunch Break 1.00-2.00***Split Session A (2-5pm): Hands-on tutorials for geology and temperature model building**

Led-tutorial: geology model-building	Phil McInerney (Intrepid) & Antonio Guillen (Intrepid/BRGM)	2.00-3.30
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Coffee Break 3.30-3.50

Led-tutorial: 3D temperature calculation	Helen Gibson (Intrepid) & Ray Seikel (Intrepid)	3.50-5.00
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Split Session B (2-5pm): Open Forum for the AGEG TIG-10 (Geophysical Operations)**Venue: Level 1, Lecture Theatre****Chairperson:** Des FitzGerald (Intrepid)**Secretary of Minutes and Wrap-up:** Catherine Stafford (Granite Power) & Anthony Budd (GA)

ENGINE European project results	Philippe Calcagno (BRGM)	2.00-2.15 (2.20)
What is the end point for geothermal developments? - modeling depletion of geothermal fields	Allan Clotworthy (SKM)	2.20-2.40 (2.45)
Micro-seismic events	David Love (PIRSA)	2.45-2.55 (3.00)
What can we expect from micro-seismic monitoring?	Des FitzGerald (Intrepid)	3.00-3.25 (3.30)

Coffee Break 3.30-3.50

Practicalities of thermal conductivity measurements	Graeme Beardsmore (HDR)	3.50-4.00 (4.05)
Remote sensing of surface temperatures	Des FitzGerald (Intrepid)	4.05-4.15 (4.20)

Open Forum Wrap-up: Catherine Stafford and Anthony Budd End 5.00 pm