

Elizabeth and Frederick White Conference: Schedule.

Wednesday

- 8:30 Registration
Session Chair: Sambridge M
- 10:00 **Sambridge M** Welcome
10.10 **Dzeroski S.** Plenary Talk
Data Mining and its environmental applications
- 10.50 Break
- 11.20 **Cressie N.** Plenary Talk
Spatial Prediction for Massive Datasets
- 12:00 **Kennett B.** Plenary Talk
Inversion and Imaging for the Solid Earth
- 12.40 Lunch
- 2:00 **McFadden P** Plenary Talk
Data explosion: The challenges for Geoscience Australia
- 2.40 **Moresi L** Plenary Talk
High performance computing in geodynamics - some outstanding issues in matching models to observations
Session Chair: Gallagher K
- 3.20 **Fraser & Dickson**
Data Mining Geoscientific Data Sets Using Self Organising Maps
- 3.45 Break
- 4.15 **Gallagher, Stephenson & Holmes**
Dealing with unknown discontinuities in data and models
- 4.40 **Laffan S**
Exploiting the data explosion using geographically local analyses
- 5.05 **Appelbe & Quenette**
Computational Frameworks enabling multi-scale multi-physics models
- 5.30 Close
- 6.15 Welcome reception: 'the deck' at Regatta point.

Thursday

Session Chair: Moresi L

- 8:50 Announcements
- 9:00 **Sdrolias, Muller & Gurnis**
Linking Observations to Subduction Process Modelling
- 9.25 **Braun, Fullsack & deKool**
Lithosphere-Hydrosphere interactions: Stokes flow with a free Surface
- 9.50 **Roberts & Nielsen**
Simulating the effect of Tsunamis within the Build Environment
- 10.15 **Break**
- 10.45 **Hale, Mulhlaus & Bourgouin**
Simulation of Lava Dome Growth Considering shear thinning, thermal feedback and strain softening
- 11.10 **Discussion – Modeling of Natural Processes – Chair: Moresi L**
- 12.30 **Lunch**
- Session Chair: Boschetti F
- 2.00 **To Be Advised**
- 2.25 **Muller D**
Understanding basin evolution using global data sets
- 2.50 **Potma & Poulet**
Application of interactive geological inversion techniques and grid computing to numerical modeling of geological processes
- 3.15 **Break**
- 3.45 **Ballester & Carter**
A New Methodology for Addressing Nonlinear Inverse Problems and its Application to Characterise a Real Petroleum Reservoir
- 4.10 **Discussion – Data Mining and Inference – Chair: Boschetti F**
- 5.30 Close
- 7:00 **Conference Dinner: University House**

Friday

Session Chair: Sambridge M

- 8:50 Announcements
- 9.00 **Rawlinson & Kennett**
Teleseismic Imaging in South East Australia, using data from Multiple high density Seismic Arrays
- 9.25 **Norris R**
Desperately Trying to Cope with the Data Explosion in Astronomical Sciences
- 9.50 **Woodcock & Fraser**
Towards Service-Oriented Geoscience: SEE Grid and APAC Grid
- 10.15 **Break**
- 10.45 **Sircombe K**
Temporal Explosion: the need for new approaches in interpreting and managing geochronology data
- 11.10 **Discussion – Inverse Problems – Chair: Sambridge M**
11.10-11.20 *The CADI inversion toolkit – P. Rickwood*
12.00-12.30 *APAC initiatives – B. Evans*
- 12.30 **Lunch**
- Session Chair: Muller D
- 2.00 **Muller D**
GP-Plates and GPML
- 2.25 **Barton & Held**
Towards a Geoscience Information Commons: the Electronic Geophysical Year, 2007-2008 and the Global Earth Observing System of Systems
- 2.50 **Gross, Smillie & Throne**
On Software Infrastructure for Computational Earth Sciences
- 3.15 **Break**
- 3.45 **Feeney & Busby**
How to avoid collateral damage: Principles for linking data users to data providers
- 4.10 **Discussion – Software and Data Exchange Format – Chair: Muller D**
- 5.30 Close