

## DAY 1 – Tuesday 15 March Discovery Centre

### Session 1: Interoperability - Setting the context

9:00	Welcome and Introductory Remarks <i>Joan Esterle, CSIRO</i>
9:10	Opening address – Why Interoperability? A response to National Drivers. <i>Trevor Powell, Geoscience Australia</i>
9:30	Where Interoperability? The n-dimensions. <i>Lesley Wybom, Geoscience Australia and pmd*CRG</i>
10:00	How interoperability? The SEEGrid Community <i>Rob Woodcock, CSIRO and pmd*CRG and Rob Atkinson, Social Change Online</i>

10:30-11:00 Morning Tea

### Session 2A: Interoperability - Data to Data

11:00	Standardising information exchange in the geosciences: a coordinated international initiative <i>Simon Cox, CSIRO and pmd*CRG</i>
11:30	NERC DataGrid and AUKEGGS. <i>Andrew Woolf, UK NERC</i>
12:00	Next Generation Data Delivery – a key theme in the SA Plan for Accelerating Exploration (PACE). <i>Paul Heithersay, PIRSA</i>

12:30-1:30 Lunch

### Session 2B: Interoperability - Data to Data

1:30	Initiatives in Government Spatial Data Interoperability. <i>Ian O'Donnell, Geoscience Australia</i>
2:00	The AUSIndustry demonstrator project on cross jurisdictional interoperability for minerals exploration data. <i>Stuart Girvan, pmd*CRG and Geoscience Australia</i>
2:30	The AUSIndustry Spatial Industry Demonstrator Project. <i>Maurits van der Vlugt, SKM</i>

3:00-3:30 Afternoon Tea

### Session 3: Interoperability - Data to Tools

3:30	APAC Grid for Geosciences Project: linking Academia, Industry and Government to HPC. <i>Rob Woodcock, CSIRO and pmd*CRG</i>
4:00	Standards and software for global geophysics. <i>Dietmar Muller, University of Sydney</i>
4.30	The ARC Earth Systems Network Grid Project <i>Nathan Bindoff, Tasmanian Partnership for Advanced Computing</i>

5:00 -6.00 Drinks and Networking  
*CSIRO Discovery Centre*

7:00 Workshop Dinner - *Boat House by the Lake*

## DAY 2 – Wednesday 16 March Discovery Centre

### Session 4A: Interoperability - Tools and Data to People

9:00	Gearing up in Canada to deliver geoscience to non specialists. <i>John Broome, Geological Survey of Canada</i>
9:30	Future directions for Community Access to Natural Resource Information (CANRI). <i>Jonathan Doig, CANRI, NSW Dept Sustainable Natural Resources</i>
10:00	Application of standards-based interfaces to biological and environmental problems. <i>Phillip Dibner, Ecosystem Associates</i>

10:30-11:00 Morning Tea

### Session 4B: Interoperability - Tools and Data to People

11:00	Initiatives for enabling Interoperability between Australian Government Geoscience agencies. <i>John Tuttle, QLD DRM GGIPAC</i>
11:30	The critical need for interoperability to the Australian Mineral Industry. <i>Andrew Scott, Placer</i>
12:00	Open source, open standards, open sesame on interoperability to Mineral Industry SME's. <i>Jayne Kato, Runge Limited</i>

12:30-1:30 Lunch

### Session 5: Interoperability - Infrastructure and Governance

1:30	Governance and coordination to expedite interoperability in the Australian Government. <i>John Busby, OSDM</i>
2:00	The Queensland State Information Infrastructure Strategy (QSIS). <i>Steve Jacoby, Qld NRM</i>
2.30	Agency challenges in moving from demonstrators to real-life interoperable systems. <i>Tim Mackey, Geoscience Australia</i>

3:00-3:30 Afternoon Tea

### Session 6: Feedback Forum

3:30	Expanding the Reach: Unlocking the Value of Interoperability <i>James Moody, CSIRO Land &amp; Water</i>
4.00	A proposed National focus on e-Science. <i>Tim Littlejohn, IBM Life Sciences Asia-Pacific</i>
4.30	The Electronic Geophysical Year, 2007-2008. <i>Charles Barton, Australian National University</i>
4.45	Closing Remarks. <i>Chris Pigram, Geoscience Australia</i>

## REGISTRATION

Registrations should be submitted in advance to ensure available space. However they will be accepted up to the time of the workshop, space permitting. Watch [www.seegrid.csiro.au](http://www.seegrid.csiro.au) for Workshop updates.

The fee for the two days is \$350. Fee covers refreshments, luncheons, workshop dinner at the Boat House by the Lake and program materials (web based). It does not cover accommodation. Presentations will be posted on the websites [seegrid.csiro.au](http://seegrid.csiro.au) and [pmdcrc.com.au](http://pmdcrc.com.au) after the workshop. A rate of \$150 (plus dinner at \$110) will apply for single day registrations. Please inform us in advance if you require any special dietary considerations.

## WORKSHOPS

Post-conference workshop: Thursday 17 March 2005.

### Designing GML application schemas; the eXploration and Mining Markup Language (Presenter: Simon Cox)

Introduction to ISO Feature Model, its implementation in GML, the design of GML application languages, focussing on XMMML and other geoscience-oriented GML languages. The workshop will assume basic familiarity with object-oriented modelling using UML Class Diagrams, and experience with W3C XML Schema will be an asset.

FEE: \$300. The number of participants will be limited to 20.

ENQUIRES: Simon Cox Ph: +61-8-6436-8639; Email: [simon.cox@csiro.au](mailto:simon.cox@csiro.au).

## SPONSORSHIP

Opportunities for sponsorship are available for various events occurring throughout the conference. There will be an exhibition area available and sponsors are welcome to distribute information about their organisation during the workshop. In addition, sponsors will be listed on the Workshop website hosted on SEEGrid and this should provide significant additional exposure both Nationally and Internationally. All sponsorship enquires can be directed to Michele Quigley Ph: +61-7-3327-4160; Email: [michele.quigley@csiro.au](mailto:michele.quigley@csiro.au).

## CANCELLATION and REFUND POLICY

Full refunds, less a 10% service charge, will be given for cancellations received in writing by 9<sup>th</sup> March, 2005. Refunds will not be made after this date. If the workshop is cancelled a full refund of the registration fee will be made. The sponsors assume no liability for changes in the program date or content.

## HOTEL RESERVATIONS

Visitors to Canberra are invited to search for accommodation at <http://canberra.citysearch.com.au/section/visitor-guide/>



**REGISTRATION FORM & TAX INVOICE**  
**Workshop: Implementing Interoperability for an**  
**Australian Solid Earth and Environmental Sciences Grid**  
**Canberra, March 15-16, 2005**  
**ABN: 41687119230**

Name -----  
 Title -----  
 Organisation -----  
 Address -----  
 ----- State -----  
 Postcode ----- Country -----  
 Telephone ----- Fax -----  
 E-mail -----

Participants	\$350	<input type="checkbox"/>
Single day registration Day 1	\$150	<input type="checkbox"/>
Single day registration Day 2	\$150	<input type="checkbox"/>
Post conference workshop (17 March)	\$300	<input type="checkbox"/>
Dinner: The Boat House by the Lake (Non registrants and single day registrations)	\$110	<input type="checkbox"/>
<u>Special dietary requirements (please specify)</u>		<input type="checkbox"/>

TOTAL *(gst inclusive)* =====

**Cheque Attached:** (payable to: CSIRO)  
**Credit Card:** Visa  MasterCard  Bankcard   
 Card No: -----  
 Expiry Date: -----  
 Name on card: -----

Signature: -----

All registrations must be paid in full by 9<sup>th</sup> March, 2005. **Please mail the completed form to CSIRO PO Box 883, Kenmore, Qld 4069, or fax to (07) 3327 4455, or email to [michele.quigley@csiro.au](mailto:michele.quigley@csiro.au); attention Ms. Michele Quigley.**  
 Phone Enquiries – (07) 3327 4160 or (07) 3327 4411

**BACKGROUND**

The Solid Earth and Environment Grid (SEE Grid) is an established National and International Community of Practice actively engaged in the development of open standards for geo- and environmental science interoperability. This includes the development of:

- Informational models** – based on XML and designed for community exchange of information
- Information services** – based on Web Services technology and supporting both spatial and non-spatial information sources which span organisational boundaries – An Information Grid
- Computational services** – based on Web Services technology, particularly Globus Toolkit 4 and providing access to HPC facilities as well as other compute services – A Compute Grid.

The objective of the SEE Grid community is to foster the development of open standards and the adoption of those standards to enable new services, particularly those involving large quantities of information and massive computation, to be readily accessible to Industry and Academia. It involves cooperation between often competing organisations to achieve consensus on the standards so that other organisations are able to build upon the infrastructure.

The previous SEE Grid workshop in 2003 (see <http://www.glassearth.com/seegrid.html>) was attended by over 175 attendees. The 2005 workshop is intended to go to a wider audience. The community (to date) operates in a relatively informal manner and coordinates activities via a website ([www.seegrid.csiro.au](http://www.seegrid.csiro.au)) which has in excess of 300 registered subscribers and receives an average of 20000 hits per month. Registered users span Academic, Government and Industry organisations and business interests ranging across data custodians, software vendors, HPC researchers, HPC providers and end users from many different domains in the earth and environment sciences.

**ORGANISERS**

The workshop is sponsored by the CSIRO, Geoscience Australia, the Predictive Mineral Discovery Cooperative Research Centre (*pmd*\*CRC) and AusIndustry.

**CONVENORS**

- Dr Simon Cox, *pmd*\*CRC and CSIRO
- Dr. Joan Esterle, CSIRO
- Dr Robert Woodcock, *pmd*\*CRC and CSIRO
- Dr. Lesley Wyborn, *pmd*\*CRC and Geoscience Australia



**SEE GRID II: IMPLEMENTING  
 INTEROPERABILITY FOR AN  
 AUSTRALIAN  
 SOLID EARTH AND ENVIRONMENTAL  
 SCIENCES GRID**

**March 15-16, 2005**

**Optus Theatre  
 The Discovery Centre  
 CANBERRA**

- Setting the Scene
- Data to Data
- Data to Tools
- Tools to People
- Infrastructure and Governance
- Feed back Session
- GML Workshop

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