

**Earth Science-Ontolog Mini-Series
Session 1:**

**Value Proposition of Ontology and
Semantic Technology for the
Earth Science Community**

Thursday, August 23, 2012

Mini-Series & Session 1 Co-Chairs:
Krishna Sinha, Leo Obrst

Today's Agenda

1. Opening Remarks and Introduction to the Earth Science-Ontolog Mini-Series (co-chairs) – Krishna Sinha / Leo Obrst: this presentation
2. Professor Krishna Sinha (Virginia Tech) - "How Can Semantics Change Data Practices of the EarthCube Geoscience Community?"
3. Professor Krzysztof Janowicz (UC Santa Barbara) - "The Value Proposition of Semantic Technologies and Ontologies for the Earth Sciences"
4. Dr. Dalia Varanka (USGS) - "Rethinking the Meaning of Data for Integrated Science Problem Solving"
5. Professor Pascal Hitzler (Wright State U) - "On the uptake of Semantic Web Technologies"
6. Mr. Mike Dean (Raytheon-BBN) - "Semantic Web for Earth Sciences"
7. Open Discussion
8. Closing Remarks – Krishna Sinha

Goals of the Mini-Series

- To explore the current status and application of multi-level ontologies towards developing a semantically enabled cyberinfrastructure for the Earth Science Community
- To bring together members of both communities (Earth Science and ontology/semantics) into a meaningful dialog
- We anticipate that the sharing of requirements and use cases, geo-science problems and issues, ontological engineering architectures and approaches, and prospective tools, will enable collaborative understanding of the challenges and potential value in the application of ontology and semantics in Earth Science
- Co-organized or supported by members of the EarthCube community, Ontolog community, SOCoP community, IAOA community.
- **Mini-Series home:** ontolog.cim3.net/cgi-bin/wiki.pl?EarthScienceOntolog
- **Description, Goals, Objectives:** <http://ontolog.cim3.net/cgi-bin/wiki.pl?EarthScienceOntolog#nid3CWC>

Mini-Series Sessions

- 1) Session-1: Thu 2012_08_23 - co-chairs: Krishna Sinha & Leo Obrst: Value Proposition of Ontology and Semantic Technology for the Earth Science Community
- 2) Session-2: Thu 2012_09_06 - co-chairs: Gary Berg-Cross & Naicong Li: Ontology development and application across Earth Science Lifecycle
- 3) Session-3: Thu 2012_10_11 - co-chairs: Krzysztof Janowicz & Pascal Hitzler: Methodologies: including, what *is* semantics, image approaches, etc.
- 4) Session-4: Thu 2012_11_08 - co-chairs: Dalia Varanka & Mark Schildhauer: Review of the field of ontologies for earth science (and existing ontologies)
- 5) Session-5: Thu 2012_12_06 - co-chairs: Nancy Wiegand & MikeDean: Tutorials