

Geospatial Semantics Workshop and GeoVoCamp

http://www.ssec.wisc.edu/meetings/geosp_sem/

Pyle Center, University of Wisconsin-Madison

702 Langdon St Madison, WI 53706, (608) 262-1122

Agenda

Monday, June 2, 2014, Room 325/326

9:00 – 9:30 Welcome, Background, Nancy Wiegand (GeoQuery and Land Use work)

(<http://geoquery.cs.jmu.edu/>, <http://www.ssec.wisc.edu/landuse/main>)

9:30 – 10:00 Andrea Westerinen (Tool for Mapping Tabular Data to an Ontology, A Work-In-Progress)

10:00 – 10:30 Wenwen Li (Semantic Enhancement of Polar Cyberinfrastructure)

10:30 – 10:45 Break

10:45 – 11:15 Line Pouchard (Semantic Technologies Improving the Recall and Precision of the Mercury Search Engine)

11:15 – 11:45+ Beth Huffer (ODISEES : An Ontology-Driven Interactive Search Environment for Earth Sciences)

12:00 - 1:00 Lunch

1:00 - 1:30 Todd Pehle (GeoVoID Vocabulary)

1:30 - 2:00 Gary Berg-Cross (Introduction to Ontology Design Patterns (ODPs) and Process)

2:00 - 2:30 Charles Vardeman (Material Transformation Pattern)

2:30 - 3:00 Torsten Hahmann (Managing Geosemantic Diversity: Repositories & Patterns)

3:00 - 3:15 Break

3:15 - 5:00 Finish discussion of potential ODP topics, then move into Breakout groups (determine ODP scope and begin discussion). Room 317 is also available.

5:00 – 6:00 or so Optional walk past the Memorial Union and along the unpaved lakeshore path.

5:20 - 6:20 Cash bar

5:30 or so – 7:30 Dinner at the Pyle Center

Possible Ontology Design Pattern (ODP) topics:

- Material Transformation Pattern
- Parcels/Cadastral model
- Contours
- Common attributes of climate models or particular categories (e.g., radiation or aerosols)
- GeoSPARQL Service Description, e.g., a WFS GetCapabilities for Linked Data. Also, extending GeoSPARQL with a geometry relations vocabulary for Linked Data, e.g., to describe centroids, convex hulls, MBRs, etc. That is, GeoSPARQL currently has URIs for geometric “functions”, but not relations.

Process: The breakout groups establish a domain scope for an ODP, use participants’ expertise to determine vocabulary and a model, formalize the model, suggest possible data to use with the model, and discuss potential for further work and publication.

Tuesday, June 3, 2014, Room 325/6

9:00 – 9:30 Update/logistics, Initial scope of breakout groups

9:30 – 10:45 Breakout groups (develop terms and initial model)

10:45 – 11:00 Break

11:00 – 12:00 Breakout groups (finalize working model, begin to formalize using some formal language)

12:00 - 1:00 Lunch

1:00 - 3:00 Breakout groups (continue formalization, test model with data, document progress and discuss publication or further work)

3:00 – 3:15 Break

3:15 – 5:00 Reports

5:00 End of Workshop (Some people have to leave earlier.)