

Marjorie Hlava Hollie White Denise Bedford Gail Hodge

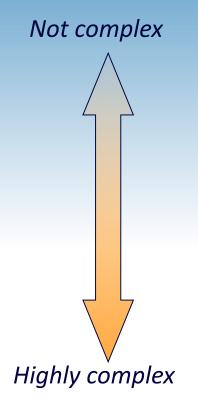


#### Marjorie M.K. Hlava Access Innovations

- Active in thesaurus and taxonomy building.
- Recent works include IEEE, Ei, ASCE (Civil Engineers). AIP, SPIE thesauri and 200 + others.
- Widely published TaxoDiary.com = Blog
- Research areas
  - furthering the productivity of content creation
  - improving the governance layer for information access
  - Automated indexing, natural language processing, machine translations, and machine aided indexing
  - Knowledge Organization systems = Thesaurus development, taxonomy creation, authority files, ontologies etc.
- Standards work includes the Dublin Core, Controlled Vocabularies, NISO content Board

# A Taxonomy is a Knowledge Organization System

- Uncontrolled list
- Name authority file
- Synonym set/ring
- Controlled vocabulary
- Taxonomy
- Thesaurus
- Ontology
- Semantic network





#### How to Evaluate a KOS?

- First push get it built
- Implementation is next
- When to evaluate?
- How to evaluate?
  - What are the metrics?
  - What is accuracy?
  - What about the relationship to a Knowledge domain?



### Today's outline

- Three speakers
- Interactive session
- Try to outline some common requirements
- Discuss options for best practices
- Put together a list of guidelines for evaluation



## Hollie White, University of North Carolina

- Doctoral Fellow at the School of Information and Library Science, Metadata Research Center, University of North Carolina at Chapel Hill.
- 2009 recipient of the Council of Library and Information Resources' Zipf Fellowship in Information Management.
- Research areas knowledge organization, information organization, metadata, and personal information management.
- Catalog Librarian at the Ross-Blakely Law Library at Arizona State University.



# Denise Bedford, World Bank and Kent State University

- Goodyear Professor of Knowledge Management at the College of Communication and Information, Kent State University.
- Expanding the M.A. program and the future Ph.D. program in Knowledge Management,
- Expanding outreach and support to the national and international knowledge management community.
- Research interests include knowledge architectures and knowledge engineering, business architecture and business rules representation, document engineering and content architectures, multilingual architecture, and search system design and architecture.
- Retired World Bank in 2010 she was responsible for development of the Bank's taxonomies and the Multilanguage topic thesaurus and the development and operationalization of the Bank's semantic analysis technologies.



#### Gail Hodge, Information International Associates, Inc.

- Advanced Informatics Group,
- Project manager on a variety of controlled vocabulary development projects including those for the US Geological Survey, the National Agricultural Library, Science.gov, and the National Institute for Literacy.
- Currently developing a controlled vocabulary for the US Environmental Protection Agency's Office of Research and Development and serving as Terminology Services contractors for the Data Standards Branch of the US EPA.
- Ms. Hodge is involved in terminology and standards activities internationally.
- She is a charter member of the Networked Knowledge Organization Systems (NKOS) an ad hoc group and has helped to organize many of their workshops in the US and internationally.

#### On KOS

- What are the most pressing evaluation needs?
- What are the current priorities for the field of information science?
- What do you think of the approaches presented?
- Everyone join in the final evaluation discussion



#### Discussion?

- Complies with the standards?
  - NISO
  - ISO
  - W3C
- Establish user needs?
- Represents the data collections
- SME's agree with the outline of the field?

Etc...



## Thank you!

- To our speakers
- Hollie White
- Denise Bedford
- Gail Hodge



# Structure of Knowledge Organization Systems

Lists Synonyms Taxonomy Thesaurus Ontology

INCREASING COMPLEXITY and CONTROL

Ambiguity Ambiguity Ambiguity

Synonym Synonym Synonym

Hierarchy Hierarchy

Relationships Additional kinds of

relationships

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# What are the parts? The term record

- Main Term (MT)
- Top Term (TT)
- Broader Terms (BT)
- Narrower Terms (NT)
- Related Terms (RT)
  - See also (SA)
- Non-Preferred Term (NP)
  - Used for (UF), See (S)
- Scope Note (SN)
- History (H)

**TAXONOMY** 

**ONTOLOGY** 

**THESAURUS** 

= subject term, heading, node, category, descriptor, class

