

# SLA Standards Session

## Washington, DC

---

1:30 – 3:30 PM Tuesday June 16, 2009

Marjorie M.K. Hlava

Access Innovations / Data Harmony

[mhlava@accessinn.com](mailto:mhlava@accessinn.com)



# Presentation Outline

---

- What the SLA and other standards committees do
- How to get involved
- A flavor other “Standards Bodies”
  - W3C
  - Government activities (not just US)
  - Registries
- Additional Information Sources

# What Does the SLA Standards Committee Do?

---

- Read , consider and vote on NISO Standards
  - On behalf of the Association
  - Enhance awareness of those standards throughout the membership
- Be aware of other standards activities
- Inform the Board of Directors on Standards actions and effects on the profession

# How to get involved

---

- ❑ As a committee member – tell the incoming president you are interested.
- ❑ SLA is a voting member of NISO
- ❑ Talk to Michael Kim
- ❑ Get on the list serves and read and comment or question
- ❑ Works in conjunction with the Cataloging committee

# Standards process

---

Idea

Committee

Approval as a work item

Standards Committee

Draft

Comment

Revise

Vote, consensus

2 years .....

# Those other standards

- ❑ ~~W3C – World Wide Web Consortium~~
- ❑ Z39 (NISO)
- ❑ X13 ( computer and data) CBEMA
- ❑ ISO
- ❑ US Government
- ❑ Other nations
- ❑ International communities
- ❑ Communities of Interest

# W3C

- 
- **Section 1 - World Wide Web Consortium (W3C)**
- 
- **W3C -- Representing Content in RDF**  
First Public Working Draft  
Provides a vocabulary to represent content in RDF, and is flexible enough to be utilized for any type of content available on the Web or in local storage media. The document contains introductory information on its usage and some examples.
- **W3C -- HTML 5**  
A vocabulary and associated APIs for HTML and XHTML  
Editor's Draft 23 October 2008
- **W3C -- RDFa in XHTML: Syntax and Processing**  
A collection of attributes and processing rules for extending XHTML to support RDF  
W3C Recommendation 14 October 2008
- **W3C -- SPARQL Query Language for RDF**  
**W3C -- SPARQL Protocol for RDF**  
**W3C -- SPARQL Query Results XML Format**  
W3C Recommendation, January 15, 2008
- **W3C -- SKOS Simple Knowledge Organization System Reference**  
W3C Working Draft 9 June 2008
- **W3C -- SKOS Simple Knowledge Organization System Primer**  
W3C Working Draft 21 February 2008

# NISO / ISO / CBEMA

---

- Z39.....
- X13.....
- Terminology
  - Is not a taxonomy or a thesaurus
  - Glossaries
  - Same concept mappings
- Registries



# Metadata registries

---

- Registry Authoritative, centrally controlled store of information.  
<http://www.w3.org/TR/ws-gloss/>

# On-going projects of KOS Registries and Terminology Services

---

- HILT (High Level Thesaurus) project  
<http://hilt.cdlr.strath.ac.uk/index.html>
- OCLC Terminologies Service  
Research:  
<http://www.oclc.org/research/projects/termservices/>  
Service: <http://www.oclc.org/terminologies/default.htm>
- NSDL [vocabulary] Registry  
<http://metadataregistry.org/vocabulary/list.html>

# More ongoing.....

---

- STAR (Semantic Technologies for Archaeological Resources)  
<http://hypermedia.research.glam.ac.uk/kos/star/>
- SKOS terminology services  
[http://hypermedia.research.glam.ac.uk/kos/terminology\\_services/](http://hypermedia.research.glam.ac.uk/kos/terminology_services/)
- TRSS (Terminology Registry Scoping Study) <http://www.ukoln.ac.uk/projects/trss/>
- **NKOS Listserv**



# Types of Registries

---

- ❑ Metadata / Schema Registries
- ❑ Terminology Registries / Repositories
- ❑ Service / Collection Registries
- ❑ Data Standards Registries

# Meta Data Schemas

The screenshot shows a Windows Internet Explorer browser window displaying the CORES website. The address bar shows the URL <http://www.cores-eu.net/>. The browser's search bar contains the text "UKOLN CORES Registry". The website header features the CORES logo, which consists of a circular arrangement of stars, and the tagline "A Forum on Shared Metadata Vocabularies" next to the European Union flag. A navigation menu includes links for Home, Project, Partners, Contact, and Glossary. On the left side, there are four vertical menu items: Standards Interoperability Forum, Registry, Information Services, and Intranet. The main content area contains a paragraph explaining the project's objective: "The central objective of the CORES project is to encourage the sharing of metadata semantics. CORES will address the need to reach consensus on a data model for declaring semantics of metadata terms in a machine-readable way. Consensus on the ground-rules for declaring standard definitions of terms, as well as local usage and adaptations, will enable the diversity of existing standards to 'play together' in an integrated, machine-understandable Semantic Web environment." Below this is another paragraph: "In order to achieve this level of interoperability, CORES will support applications re-using and adapting terms maintained by key organizations and standardisation initiatives." A section titled "News from CORES" lists four bullet points: a paper on metadata schema registries, the availability of the final project report, an article on identifying metadata elements with URIs, and a report on the signing of the CORES Resolution. At the bottom of the page, there is a section for the "Standards Interoperability Forum". The browser's taskbar at the bottom shows several open applications, including Eudora, SLA 2009 Standards, and the CORES website itself. The system tray indicates 100% zoom and the time 5:33 AM.


**Terminologies Service**

Terminologies Service

- [At a glance](#)
- [Ordering](#)
- [Support, training and documentation](#)

[Add-on services](#)
[Subscribe to OCLC updates and offers](#)

## Terminologies Service™

Multiple thesauri in a single interface



### AT A GLANCE

- Provides faster, easier access to multiple thesauri
- Creates consistent metadata with searching, copy and paste functionality
- Adds value to your cataloging subscription. Available to OCLC cataloging service subscribers at no additional cost

[View complete at a glance >>](#)
[Download the brochure](#)

### NEWS

- [Canadian Subject Headings now part of OCLC Terminologies Service](#)

[More news >>](#)

The Terminologies Service provides access to multiple controlled vocabularies to help you create consistent metadata for your library, museum, or archive collections. Now it's as easy as copy-and-paste into a workform or template once you find a term to use in your description, improving the description of (and access to) your digital and hard copy materials.

# Service registries



The screenshot shows the IESR website in a Windows Internet Explorer browser window. The address bar displays <http://iesr.ac.uk/>. The page features the IESR logo and navigation links: Home, About, Use, Contribute, Specifications, Publications, and Latest Additions. A search bar is present with the text "Search IESR" and a "Search" button. Below the search bar, there is a section for "Search IESR from your browser" with a plus sign icon and a note: "[Internet Explorer 7 and 8, Firefox and Google Chrome]". The main content area is divided into three columns: "Use", "Contribute", and "News". The "Use" column contains the text: "IESR is a resource discovery tool intended to benefit the UK academic community. Access is through web and machine interfaces or" followed by a circular arrow icon. The "Contribute" column contains the text: "Contribute to IESR and promote your electronic resources to a UK-wide audience, improving access to your collections and" followed by a circular arrow icon. The "News" column lists several news items with dates and links: "23 March 2009 RSS Feeds", "23 March 2009 Search Plug-ins", "23 March 2009 The IESR Website", "05 March 2009 New IESR tools", and "08 July 2008 DRAI Data Loaded". A "View IESR news archive" link is located at the bottom of the news section. The browser's taskbar at the bottom shows several open applications: Start, Eudora - [NKOS] (Not Re...), SLA 2009 Standards.ppt..., IESR: Information Env..., registry-zeng.pdf - Adob..., and a system tray with a 100% zoom level and a clock showing 5:35 AM.

# Data Registries EPA.gov

**System of Registries | System of Registries | US EPA - Windows Internet Explorer**

http://iaspub.epa.gov/sor\_internet/registry/sysofreg/home/overview/home.do

U.S. ENVIRONMENTAL PROTECTION AGENCY

## System of Registries

Search: All EPA  Go [Advanced search](#)

You are here: [EPA Home](#) » [SoR Home](#) » Overview

**Home** | **Vision & Planning** | **What is a Registry?** | **Roles** | **Outreach & Education** | **Training**

**Overview** | Basic Information | Roles in Data Quality | Roles in Enterprise Architecture

**Enabling Discovery, Understanding, and Sharing of Environmental Data**

The System of Registries (SoR) is a resource for environmental system developers and enterprise architects. It also provides environmental program managers and users of environmental information with automated services to enable better understanding of environmental terminology and data used by the Agency.

Data standards are an integral part of these services. Information about data standards may be accessed on the separate [Data Standards Web Site](#).

 <b>System Inventory Services</b> <ul style="list-style-type: none"><li>System/Application Information</li><li>Data Sets</li><li>Environmental Models</li><li>Also known as the Registry for EPA Applications, Models and Datasets (READ)</li></ul>	 <b>Data Registry Services</b> <ul style="list-style-type: none"><li>Data Dictionaries</li><li>Code Sets</li><li>Standard Data Elements</li><li>Concepts and Meanings</li><li>Mappings to Data Standards and Systems</li></ul>	 <b>Substance Registry Services</b> <ul style="list-style-type: none"><li>Chemicals</li><li>Biologicals</li><li>Physical Properties</li><li>Standard and Programmatic Name</li></ul>
 <b>Reusable Component Services</b> <ul style="list-style-type: none"><li>Web Services</li><li>Schema</li></ul>	 <b>Terminology Services</b> <ul style="list-style-type: none"><li>Terms and Definitions</li><li>Glossaries</li></ul>	 <b>Facility Registry System</b> <ul style="list-style-type: none"><li>Names</li><li>Locations</li></ul>

**SoR Home**  
Basic Information

Frequent Questions/Help  
Login for EPA & Partners  
Link to Data Standards

System Inventory Services  
Reusable Component Services  
Data Registry Services  
Terminology Services  
Substance Registry Services  
Facility Registry Services

**DataHarvest**

Start | Eudora - [In] | Microsoft PowerPoint no... | System of Registries ... | 100% | 5:12 AM

# Sharing actual data



The screenshot displays the EPA System of Registries website. At the top right, it says "U.S. ENVIRONMENTAL PROTECTION AGENCY" with a "Share" button. The main header is "System of Registries". Below this is a search bar with "All EPA" selected and a "Go" button, along with a link to "Advanced search". A breadcrumb trail reads: "You are here: EPA Home » SoR Home » Roles » Exchange Network Partners". A navigation menu includes "Home", "Vision & Planning", "What is a Registry?", "Roles", "Outreach & Education", and "Training". Below the menu, there are links for "User Roles", "Data Standards Branch", "Architects", and "Exchange Network Partners". The main content area is titled "Exchange Network Partners" and includes a sub-header "Exchange Network partners use the:" followed by a bulleted list of services.

U.S. ENVIRONMENTAL PROTECTION AGENCY

System of Registries

Contact Us Search: All EPA  Go Advanced search

You are here: EPA Home » SoR Home » Roles » Exchange Network Partners

Home Vision & Planning What is a Registry? Roles Outreach & Education Training

User Roles Data Standards Branch Architects Exchange Network Partners

## Exchange Network Partners

Exchange Network partners use the:

- Data Registry to register code sets and data dictionaries
- Terminology Services for vocabularies
- Substance Registry Services (SRS) for substance lists and substance identification information; e.g., for chemicals
- Facility Registry System (FRS) for information about facilities
- Reusable Component Services for reusable assets that are used in exchange of information across the Network



Home Browse Search All Mappings

Submit New Ontology

Ontology Name	Format	Version	Author	Uploaded On	
<a href="#">African Traditional Medicine</a>	OBOF	1.0.1	Ghislain Atemezino See Remote Site	04/15/2008	
<a href="#">Amino Acid</a>			Event Administrators	08/22/2008	
<a href="#">Amphibian gross anatom</a>			Michael Ashburner	05/29/2008	<a href="#">Explore</a>
<a href="#">Event (INOH pathway ontology)</a>	OBOF		See Remote Site		
<a href="#">Evidence codes</a>	OBOF	1.17	Michael Ashburner	05/29/2008	<a href="#">Explore</a>
<a href="#">eVOG (Expressed Sequence Annotation for Humans)</a>	OBOF		Evoc Administrators	08/22/2008	
<a href="#">Fly taxonomy</a>	OBOF	1.1	Michael Ashburner	08/24/2007	<a href="#">Explore</a>
<a href="#">FlyBase Controlled Vocabulary</a>	OBOF	1.13	Evidence_code Administrators	07/30/2008	<a href="#">Explore</a>
<a href="#">FMA</a>	OWL-DL	1.4		01/16/2007	<a href="#">Explore</a>
<a href="#">Foundational Model of Anatomy (subset)</a>	OBOF		See Remote Site	Http://obo Administrators	08/22/2008
<a href="#">Fungal gross anatomy</a>	OBOF	1.1	Fungal_anatomy Administrators	07/30/2008	<a href="#">Explore</a>
<a href="#">Galen</a>	OWL-FULL	1.1		01/16/2007	<a href="#">Explore</a>
<a href="#">Gene Regulation Ontology</a>	OWL-FULL		See Remote Site	Vivian Lee	08/22/2008
<a href="#">Gene Regulation Ontology (GRO)</a>	OWL-DL	0.3	Vivian Lee	06/25/2008	<a href="#">Explore</a>
<a href="#">Habronattus courtship</a>	PROTEGE		See Remote Site	Http://www Administrators	08/22/2008
<a href="#">Human developmental anatomy, abstract version</a>	OBOF	1.3	EMAP Administrators	07/30/2008	<a href="#">Explore</a>
<a href="#">Human developmental anatomy, timed version</a>	OBOF	1.3	EMAP Administrators	07/30/2008	<a href="#">Explore</a>
<a href="#">Human disease</a>	OBOF	1.10	Human_disease Administrators	08/01/2008	<a href="#">Explore</a>
<a href="#">ICD9</a>	LEXGRID-XML	9		05/16/2008	<a href="#">Explore</a>

# ISO/IEC 11179

## Metadata Registry (MDR)

- ***Part 1: Framework;*** introduces fundamentals that are essential to the understanding of the whole set of standards
- ***Part 2: Classification;*** discusses registering and administering all or part of a classification scheme
  - (CLASSIFICATION schemes include: key words, thesauri, taxonomies, and ontologies)
- ***Part 3: Registry metamodel and basic attributes;*** specifies a conceptual model for a metadata registry



# ISO/IEC 11179

## Metadata Registry (MDR)

---

- ***Part 4: Formulation of data definitions;*** provides guidance on how to develop unambiguous data definitions
- ***Part 5: Naming and identification principles;*** states the formal naming and identification of metadata items
- ***Part 6: Registration;*** defines identification, quality, and provenance of metadata in a metadata registry

# NKOS IKOS

---

- Marcia Zeng Kent State University
- NKOS Workshop at ECDL in Aarhus:
- <http://www.comp.glam.ac.uk/pages/research/hypermedia/nkos/nkos2008/programme.html>

NKOS Special Session at DC 2008 in Berlin, all in one single pdf file:

- <http://dc2008.de/wp-content/uploads/2008/09/nkos.pdf>

□

The Joint NKOS/CENDI Workshop "New Dimensions in Knowledge Organization Systems", in Washington, DC, USA on September 11, 2008 made available its presentations at:

- <http://nkos.slis.kent.edu/2008workshop/NKOS-CENDI2008.htm>


# Semantic Activities

---


- <http://federaldata.wik.is/@api/deki/files/89/=BrandNiemann05202009.ppt>
- [http://federaldata.wik.is/Federal\\_Enterprise\\_Architecture\\_Reference\\_Model\\_Revision\\_Submission\\_Form](http://federaldata.wik.is/Federal_Enterprise_Architecture_Reference_Model_Revision_Submission_Form)
- [http://federaldata.wik.is/May\\_13%2c\\_2009\\_Semantic\\_Web\\_Meetup](http://federaldata.wik.is/May_13%2c_2009_Semantic_Web_Meetup)



mindtouch








log in  
register



Federal Data Web 2....

- Blog (Web Log)
- Cambridge Semantic...
- Comments and Innov...
- > Federal Data Archite...
- Federal Data Refere...
- > Federal Data Refere...
- > Federal Enterprise A...
- David C. Hay 04/22/...
- David C. Hay 04/15/...

My Page Recent changes Tools Help Go Pro

 Edit page
  New page
  Print page
  More
  Table of contents

Page last modified 15:44, 13 May 2009 by Admin

Federal Data Web 2.0 Wiki Pilot > Federal Enterprise Architecture Reference Model Revision Submission Form (DRM 3.0)

# Federal Enterprise Architecture Reference Model Revision Submission Form (DRM 3.0)

Created by Brand Niemann, April 6, 2009, 5:52 p.m.

See [http://ontolog.cim3.net/cgi-bin/wiki.pl?OntologySummit2009\\_Communique](http://ontolog.cim3.net/cgi-bin/wiki.pl?OntologySummit2009_Communique)

Architecture & Infrastructure Committee: Governance Subcommittee Meeting ([Agenda](#)) Report on Compilation of DRM Comments, Brand Niemann and Rick Murphy, DRM Community of Practice, April 10, 2009. [Slides](#). [Compilation of Comments](#).

In terms of my submissions, you may like to review the original language from November which contains sufficient detail to pass this stage of the RMMP screening process. Best wishes, Rick

See [David C. Hay Comments, April 15th](#) and two sets of slides at bottom of page. [david.hay@capgemini.com](mailto:david.hay@capgemini.com), [dch@essentialstrategies.com](mailto:dch@essentialstrategies.com)

See [EPA DRM 3.0 and Data.Gov Pilot, April 21](#)

See [A Target Enterprise and Data Architecture for the US EPA: Implementing DRM 3.0 and Data.gov](#), April 23

See [David C. Hay Comments, April 22nd](#)

April 29, 2009, Research on Data Management and Information Sharing Technology in the United States (Japanese Delegation DoD) led by [Professor Hajime Horiuchi](#), Professor of Information Engineering, Faculty of Commerce, Tokyo International University and Vice President of [UMTP Japan](#). Invited Briefing. [Questionnaire for the DoD MDR and Centeric Data Strategy](#).

May 1, 2009, [W3C Use Case for Persistent URIs](#).

# Meetup and Vocabulary Camp

The screenshot shows a Windows Internet Explorer browser window displaying a MindTouch page. The browser's address bar shows the URL [http://federaldata.wik.is/May\\_13%2c\\_2009\\_Semantic\\_Web\\_Meetup](http://federaldata.wik.is/May_13%2c_2009_Semantic_Web_Meetup). The page title is "May 13, 2009 Semantic Web Meetup - Federal Data Web 2.0 Wiki Pilot".

The MindTouch page features a navigation menu with "My Page", "Recent changes", "Tools", "Help", and "Go Pro". Below this is a search bar and a "find" button. A secondary navigation bar includes "Edit page", "New page", "Print page", "More", and "Table of contents". A status box on the right indicates the page was last modified on May 19, 2009, at 19:21, by Mills Davis.

The main content area is titled "May 13, 2009 Semantic Web Meetup" and includes the following details:

- What:** Social Networking and the Semantic Web
- When:** Wednesday, May 13, 2009 7:00 PM
- Who:** There's for 253 more.
- Where:** Johnson Center Cinema at GMU, 4400 University Drive, Fairfax VA 22030, (703) 993-2921

The "Meetup Description:" section contains the following text:

It seems like there are a million different social networks now. Web 2.0 has certainly received a lot of press lately - much of it well-deserved, but much of it over-hyped too. Movie stars "tweet". Rock bands have blogs and myspace pages. Even the White House is getting into the act, and everyone is talking about Gov 2.0.

What does all of this mean, and what does it have to do with the Semantic Web? Is Web 3.0 just over the horizon? This month, the Washington Semantic Web Meetup is teaming with the GMU Center for History and New Media in Fairfax. We will be taking over the Johnson Center Cinema for an exciting evening full of discussions on social networking semantics.

Our main speaker will be Mills Davis, of Project 10X. Mills is a well-known figure in the Semantic Web community, with many years of experience in the field. He will be discussing new developments in social networking and semantic technologies within government and private industry. [Slides](#)

We will then have several presentations and demonstrations of new products and services related to the intersection of social networking and the Semantic Web. Our other speakers are:

- Dan Cohen, Zotero (GMU CHNM) [Slides](#)
- Andy Roth, Glue (Adaptive Blue) [Slides](#)
- Mike Petit, OpenAmplify (Hapax) [Slides](#)

After the presentations, the speakers will then form a panel, and answer questions from the audience. Brian Eubanks, the Meetup

The left sidebar of the page contains a "mindtouch" logo, a "log in" button, a "register" button, and a list of navigation links including "Federal Data Web 2...", "Blog (Web Log)", "Cambridge Semantic...", "Comments and Innov...", "Federal Data Archite...", "Federal Data Refere...", "Federal Data Refere...", "Federal Enterprise A...", "Federal Enterprise A...", and "Federal Semantic Int...".

The bottom of the browser window shows the Windows taskbar with the Start button, several open applications (Eudora, SLA 2009 Standar..., 1 [Read-Only], SLA 2009 Standar...), the current date and time (May 13, 2009 Se..., 5:22 AM), and a 100% zoom level.



# Keeping up on terms and registries

---

- NKOS
- Networked Knowledge Organization Systems
- <http://listserv.oclc.org/archives/nkos-l.html>
- <http://nkos.slis.kent.edu/>
- Marcia Zeng maintains this information

# Thank you for attention!

---

Marjorie M. K. Hlava

Access Innovations / Data Harmony

[mhlava@accessinn.com](mailto:mhlava@accessinn.com)

+1-505-998-0800