

Status Report on the NDLTD

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Caltech, Pasadena, CA

Edward A. Fox
Director, NDLTD

Virginia Tech
Blacksburg, VA 24061 USA

Acknowledgements (Selected)

- **Adobe, CNI, CONACyT, DFG, Ex Libris, FIPSE, IBM, NSF, OCLC, SOLINET, SURA, UNESCO, VTLS, ...**
- **NDLTD members**
- **NDLTD Steering Committee**
- **NDLTD Standing Committees: Stds, ..., Conf:**
- **ETD conference series: 1998, 1999, 2000**
 - 2001 – Caltech – Eric Van de Velde, staff
 - 2002 – U. of West Virginia – John Hagen, ...

JCDL 2001

- ➡ **First Joint ACM/IEEE Conference on Digital Libraries (+ NSF DLI-2 PI mtg)**
- ➡ **<http://www.jcdl.org>**
- ➡ **June 24-28, 2001 in Roanoke, VA**
- ➡ **Conference Committee:**
- ➡ **General Chair:** Edward A. Fox, Virginia Tech
- ➡ **Program Chair:** Christine Borgman, UCLA
- ➡ **We invite those interested in NDLTD!**

Main Message

- ➡ Join NDLTD
- ➡ Work with others
- ➡ Share with others
- ➡ Encourage others to join, work, share, ...
- ➡ Win – Win – Win – Win - ...

Attendees not yet NDLTD members

- **Arizona State University**
- **Cal State, Fresno**
- **Cal State, L.A.**
- **Cal State, Stanislaus**
- **Carnegie Mellon U.**
- **Cinemedia**
- **Eastern Michigan U.**
- **Ex Libris**
- **Florida Center for Lib. Auto.**
- **George Mason University**
- **Georgetown University**
- **Georgia Southern University**
- **Helsinki U. of Technology**
- **Indiana U. of Pa.**
- **INTIF-Agence de la Francophonie**
- **Jet Propulsion Lab**
- **Johns Hopkins University**
- **Los Alamos National Laboratory**
- **Korea Ed. & Res. Info. Service (KERIS)**
- **Library of Congress**

Attendees not yet ND LTD members

- Michigan State University
- MindCrossing
- Montana State University
- National Hellenic Res. Foundation Northeastern University
- Northwestern University
- Ohio State University
- PUC Rio de Janeiro
- San Francisco State U.
- ScienceServer LLC
- Simon Fraser University
- State U. NY at Buffalo
- Texas A&M University
- Texas Tech University
- UMI
- University of Arkansas
- U. Ca. Irvine
- U. Ca. Santa Barbara
- University of Central Florida
- University of Chicago
- Universidad de Chile
- University of Duisburg
- University of Geneva
- University Lyon 2

Attendees not yet ND LTD members

- **University of Madras**
- **University of Maryland**
- **University of Michigan**
- **University of Minnesota**
- **Université de Montréal**
- **University of Nebraska at Kearney**
- **University of Nevada, Las Vegas**
- **University of New Orleans**
- **University of Pittsburgh**
- **University of Puerto Rico, R.U.M.**
- **University of Rochester**
- **University of Southern California**
- **University St. Gallen**
- **University of Texas Southwestern Medical Center at Dallas**
- **University of Toronto**
- **University of Washington**
- **Washington State U.**
- **Washington University**
- **Wright State University**
- **York University**

Contents

➡ Who

➡ What

➡ Where

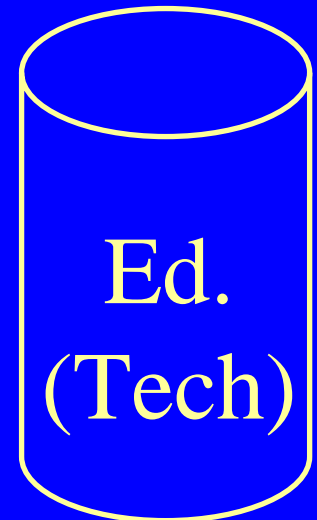
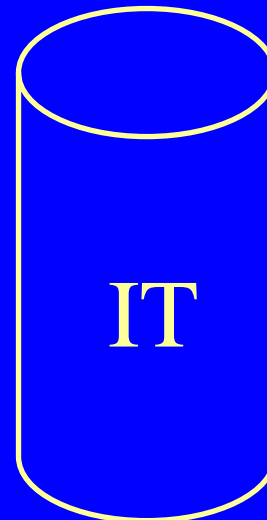
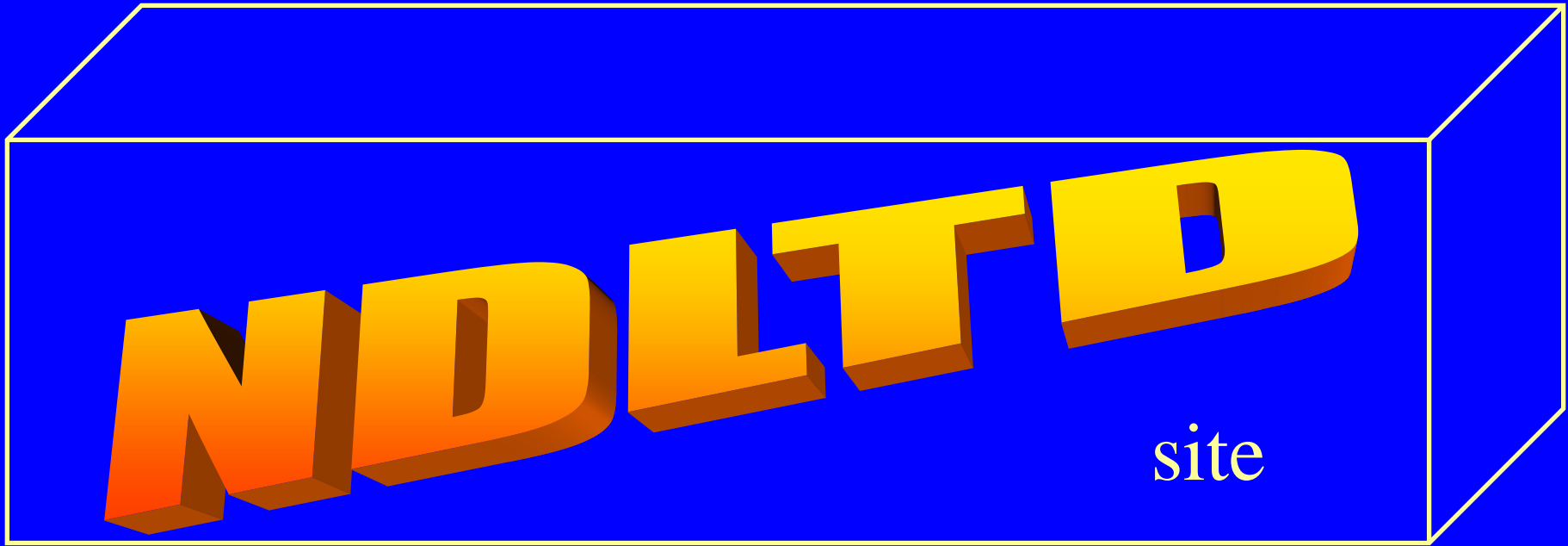
➡ When

➡ How

Who

- ➡ Local
- ➡ Regional
- ➡ National
- ➡ International
- ➡ NDLTD

Who: Local



Who: Regional

- ➡ Associations: SOLINET
- ➡ Broad Consortia: CBUC
- ➡ Univ. Consortia: CIC,
SURA

Who: Regional / National

➤ **Consorci de Biblioteques
Universitàries de Catalunya**

➤ **Greece (National Center)**

➤ **India (National Center)**

➤ **Korea (KERIS)**

➤ **Portugal (National Library)**

➤ **South Africa:
ECHEA/SEALS (w. Mellon)**

➤ **USA**

– **CIC**

– **OhioLink**

➤ **...**

➤ **Australia** (project -> program)

– U. New South Wales (lead)

– U. of Melbourne

– U. of Queensland

– U. of Sydney

– Australian National U.

– Curtin U. of Technology

– Griffith U.

➤ **Germany (see next)**

– Humboldt University (lead)

– 3 other universities

– 5 learned societies: Math,
Physics, Chemistry, Sociology,
Education

– 1 computing center

– 2 major libraries

Who: National:

Some Countries with Members

➔ Belgium

➔ Brazil

➔ Canada

➔ China

➔ Columbia

➔ Germany

➔ Hong Kong

➔ India

➔ Italy

➔ Korea

➔ Mexico

➔ Netherland

➔ Norway

➔ Russia

➔ Singapore

➔ S. Africa

➔ S. Korea

➔ Spain

➔ Sweden

➔ Taiwan

➔ UK

Who: International

- ☞ NGOs: ISTEAC, Organization of American States, UNESCO
- ☞ Associations: CGS, CNI
- ☞ Companies: Adobe, Ex Libris, IBM, VTLS, ...

Who: NDLTD

- ☞ Steering Committee
- ☞ Secretariat at VT (Gail, John, Tony, ...)
- ☞ Listservs: etd-1, etd-stds-1, ...
- ☞ Standing Committees (please volunteer)

Who: NDLTD: Committees

☞ Conferences

- Planning

- Program

☞ Standards

☞ Training

Who: NDLTD

Future Directions

☞ Speakers Bureau

- On-demand support
- Regional conferences with UNESCO
 - ◆ Latin America
 - ◆ ...

☞ Strategic Planning Committee

- Chair, Joan Lippincott
- Review mission
- Develop long-term sustainable business plan

What: A Digital Library Case Study

☞ **Domain:** graduate education, research

☞ **Genre:** ETDs = electronic theses & dissertations

☞ **Submission:**
<http://etd.vt.edu>

☞ **Collection:**
<http://www.theses.org>

Project:

Networked Digital Library of Theses & Dissertations

<http://www.ndltd.org>
(**NDLTD** – remember:
ND LTD / NDL TD)

What

- ➔ Content
- ➔ Services
- ➔ Activities

What: Content

- ☞ Foundation: local content
- ☞ www.theses.org points to many sites
 - Add Yours!

What: Services

☞ Members

- Training

- Sharing software and tools

- Encouraging and supporting

- Involving in broader efforts

What: Services

☞ Repository

- Tools and software
- Proceedings (John Hagen)
- Standards, policies, best practices
- Training resources (e.g., UNESCO Guide, Website at etdguide.org)

What: Services

☞ Under test

- Union collection

☞ Under development

- ◆NDLTD in a box

- ◆OpenURL target

- ◆Annotation service, SDI service

- ◆National: Copyright registration

What: NDLTD In a Box

- Metadata record creation (and authority lookup)
- Local collection maintenance
- Search provided by local (e.g., from VTLS) or open sources (e.g., Greenstone) and authority lookup
- OAI data provider service
- Provisional local authority server for local creators
- OpenURL source and target support
- Converter MARC → RDF
 - Lossless as far as ETDMS content goes
- Converter RDF → “MARC-like object”

What: NDLTD In a Box – Who?

- VTLS
- Ex Libris
- Virginia Tech
- German groups
- Spanish groups (Jose Canos Cerda, Valencia)
- Australia
- Portugal
- Los Alamos National Laboratory
- ...

Author's tools

www.physik.uni-oldenburg.de/EPS/mmm

My Meta Maker [\(1.31\)](#)

To markup Resources in Physics
using the [Dublin-Core](#)-Standard

Where can the resource be found? URL, URN, ISBN, ISSN, other

Classification with: PACS, MSC

Object-Type:

Data-Format:

Language:

Number of Authors:

```
<HTML>
<HEAD>
<META NAME="keywords" CONTENT="phase transition, finite systems, bose-einstein
<!-- Dublin Core Metadata Package -->
<!-- by MyMetaMaker Version 1.31 -- implemented in WUFI-Version 1.0 -->
<META NAME="DC.title" CONTENT="Classification of phase transitions in small sys
<META NAME="DC.creator" CONTENT="Peter Borrmann">
<META NAME="DC.creator" CONTENT="(TYPE=email)borrmann@uni-oldenburg.de">
<META NAME="DC.creator" CONTENT="(TYPE=phone)+49-(0)441-798-3362">
<META NAME="DC.creator" CONTENT="(TYPE=fax)+49-(0)441-798-3201">
<META NAME="DC.creator" CONTENT="Oliver Muelken">
<META NAME="DC.creator" CONTENT="(TYPE=email)muelken@uni-oldenburg.de">
<META NAME="DC.creator" CONTENT="(TYPE=phone)+49-(0)441-798-3467">
<META NAME="DC.creator" CONTENT="(TYPE=fax)+49-(0)441-798-3201">
<META NAME="DC.creator" CONTENT="Jens Harting">
<META NAME="DC.creator" CONTENT="(TYPE=email)harting@uni-oldenburg.de">
<META NAME="DC.creator" CONTENT="(TYPE=phone)+49-(0)441-798-3467">
<META NAME="DC.creator" CONTENT="(TYPE=fax)+49-(0)441-798-3201">
<META NAME="DC.subject" CONTENT="phase transition, finite systems, bose-einstei
<META NAME="DC.publisher" CONTENT="XXX LANL E-Print Archive">
<META NAME="DC.date" CONTENT="(SCHEME=ANSI.X3.30-1985)19990913">
<META NAME="DC.date" CONTENT="(SCHEME=ANSI.X3.30-1985)(TYPE=current)19991015">
<META NAME="DC.type" CONTENT="Article">
<META NAME="DC.type" CONTENT="(SCHEME=Freetext)publication-status=published">
<META NAME="DC.format" CONTENT="application/pdf">
<META NAME="DC.language" CONTENT="(SCHEME=Z39.53)ENG">
<META NAME="DC.identifier" CONTENT="(TYPE=copy)http://xxx.lanl.gov/abs/cond-mat
<LINK REL="SCHEME.DC" HREF="http://purl.org/metadata/dublin_core_elements">
<LINK REL="SCHEME.pacs96" HREF="http://publish.aps.org/PACS/pacsgen.html">
<LINK REL="SCHEME.msc91" HREF="http://www.ams.org/msc/">
<LINK REL="SCHEME.Z39.53" HREF="http://www.sil.org/sgml/nisoLang3-1994.html">
<!-- /Dublin Core Metadata Package -->
<TITLE>Classification of phase transitions in small systems</TITLE>
```

What: Activities (Summary)

- ☞ Visits and Presentations
- ☞ Identifying and Involving Partners
- ☞ Conferences
- ☞ Standards
- ☞ Software Development
- ☞ Research: Educational, Technical

When (what's new)

- ➡ Origins (since 1987 ...)
- ➡ Meetings (since 1992 ...)
- ➡ Stages (interest, pilot, reqt, training and helping others)
- ➡ Projects (through internal/external funding)
- ➡ Programs (institutionalized)

Future of DissOnline.de

- ☞ Support by DDB (German National Library)
- ☞ Group „Electronic Publishing“ within DINI
 - <http://www.dini.de>
- ☞ Several new projects:
 - MathDiss
 - ◆ part of MathNet (Prof. Törner, Duisburg)
 - ◆ <http://www.ub.uni-duisburg.de/mathdiss/>
 - ProPrint
 - ◆ Humboldt-Univ. Berlin, Library Göttingen
 - ◆ <http://dissertationen.hu-berlin.de/proprint>
 - Open Archives: Distributed services for physicists and graduate students (OAD)
 - ◆ Prof. Hilf University Oldenburg
 - ◆ (<http://ins.uni-oldenburg.de/projects/OAD/>)

New Related Grants

- ☞ NSF: Open Archives: Distributed services for physicists and graduate students (OAD): \$315,259 for 9/1/2000-8/31/2003. Project director: E. Fox, w. Royce Zia, Physics, VT, and E. Hilf, U. Oldenburg, PI on matching German DFG project, <http://ins.uni-oldenburg.de/projects/OAD/>
- ☞ NSF- CONACyT proposal no. 0080748: High Performance Interoperable Digital Libraries in the Open Archives Initiative, \$99,999 for 24 months starting 3/1/2001. Principal Investigator Edward Fox, expected in weeks

Where (already covered)

☞ International

☞ National

☞ Regional

☞ Universities

☞ Campus infrastructure

How

- ☞ Independent initiative, action
- ☞ Discussion, Policies
- ☞ Information Sharing (DBs)
- ☞ Standards ***
- ☞ Cooperation **

The Networked Digital Library of Theses and Dissertations

www.NDLTD.org

Training Authors

Expanding Access

Preserving Knowledge

Improving Graduate Education

Enhancing Scholarly Communication

Empowering Students & Universities

Leader of the Worldwide ETD

(Electronic Thesis and Dissertation) Initiative

How: Centralized Databases

- ☞ **UNESCO / German database effort – Peter Diepold**
- ☞ **Possible NDLTD Central DB**
 - **Local sites keep information up-to-date**
 - **Serves as registry**
 - **Machine readable, usable by software**
 - **Standard representations**

How: Local Support for NDLTD Central Database

Contact people, trainers	NDLTD comm. members	Collection loc. (OAI ID)
Requirement status and date	Submission instructions	Aids: thesauri, ...
Statistics and logs	Open source resources	Training resources
Preservation policies	Standards and policies	IP policies

How & Why: Standards

- ➡ **Help students learn relevant skills**
- ➡ **Help reduce life cycle costs**
 - For students, universities, readers
- ➡ **Support preservation**
- ➡ **Support access**
 - Across all NDLTD members
 - Across all languages
 - At least some support for all
 - Good support for those following stds

How: Standards

- ☞ Metadata: MARC, DC , RDF
- ☞ Documents: PDF, XML, SGML, HTML, LaTeX, multimedia, ...
- ☞ Databases: workflow, citations
- ☞ Protocols: fed. search, OAI, Z39.50

Open Archives Initiative

OAI

www.openarchives.org



openarchives@openarchives.org

How: Standards: Timing

- ➡ **Recent Focus: ETD metadata**
- ➡ **Ongoing: XML for ETD documents**
- ➡ **Gradual:**
 - **Multimedia**
 - **Citation database (ISI, ResearchIndex)**
 - **Hypertext (OpenURL)**
 - **Preservation**
 - **Data sets ...**

Union Catalog Project

- ☞ Help students and researchers find ETDs
- ☞ Combine ETD metadata from multiple sources
- ☞ Provide high-level centralized user services, eg., searching

Project Goals

- 👉 Documents: PDF + XML + ...
- 👉 Metadata: MARC21 + ETDMS
 - Encoded in XML, XML+RDF, using OCLC's name authority system
- 👉 Search based on harvesting



Key Elements in Implementation

- ☞ Metadata Definition
- ☞ (Name Authority Control)
- ☞ Harvesting
- ☞ NDLTD Union Collection
- ☞ NDLTD Services

Metadata Definition

- ☞ Prepare ETDMS formal specifications and documentation
 - Abstract specification of semantics (done)
 - Plain “vanilla” XML version (done, and built into OAI template code)
 - Richer RDF XML version (in progress)

MARC Example

```
<oai_marc status="n" type="t" level="m" encLvl="u" catForm="u">
<fixfield id="008" >" s1996  vau| sm 00| 0|eng d"</fixfield>
<varfield i1="1" i2=" " id="100" >
  <subfield label="a" >Broderick, Kevin Dee</subfield>
</varfield>
<varfield i1="0" i2="0" id="245" >
  <subfield label="a" >Constructing A Successful Therapeutic Experience With
    Adolescent Clients: A Qualitative Study Of Adolescent Experiences In Family
    Therapy</subfield>
</varfield>
<varfield i1=" " i2=" " id="260" >
  <subfield label="b" >University Libraries, Virginia Polytechnic Institute and State
    University</subfield>
</varfield>
...
</oai_marc>
```

ETDMS XML Example

```
<thesis>
<title>Constructing A Successful Therapeutic Experience With Adolescent Clients:
      A Qualitative Study Of Adolescent Experiences In Family Therapy</title>
<creator>Broderick, Kevin Dee</creator>
<publisher>Virginia Polytechnic Institute and State University</publisher>
<contributor role="committee_member" >K. H. Rosen</contributor>
<degree >
  <name>MS</name>
  <level>masters</level>
  <discipline>Family and Child Development</discipline>
  <grantor>Virginia Polytechnic Institute and State University</grantor>
</degree>
...
</thesis>
```

ETDMS XML+RDF Example

```
<rdf:RDF>
  <thesis:EDT rdf:about="http://scholar.lib.vt.edu/theses/available/etd-
    492119119643530/">
    <dc:creator rdf:resource="mailto:kevin@abc.xyz"/>
    <dc:title xml:lang="en">Constructing A Successful Therapeutic Experience With
      Adolescent Clients: A Qualitative Study Of Adolescent Experiences In Family
      Therapy</dc:title>
    <dc:publisher>Virginia Polytechnic Institute and State University</dc:publisher>
    <dc:language><dct:RFC1766 rdf:value="de"/></dc:language>
    <thesis:level>masters</thesis:level>
  </thesis:EDT>
  <dca:Person rdf:about="mailto:kevin@abc.xyz">
    <rdf:value>Broderick, Kevin Dee</rdf:value>
  </dca:Person>
  ...
</rdf:RDF>
```

Korean MARC Example

```
Rec. 0: Leader: 00349nas 22001331k 4500
TAG IND Contents
001      **211004
008      000414s1999      ko      00      kor
041      $a kor
100      $a 남칠우
245      $a 毛澤東의 外交路線 研究
          $x A Study of Mao's Foreign Policy Line
260      $b 건국대학교
300      $a 208p
502  1   $a 학위논문(박사)
          $c 정치학과
          $d 1999
700      $a Nam Chil- Woo
```


Korean ETDMS Example

```
<?xml version="1.0" encoding="EUC_KR"?>

<thesis xmlns="http://nd1td.org/metadata/etdms"
        xmlns:xsi="http://www.w3.org/2000/10/XMLSchema-instance"
        xsi:schemaLocation="http://nd1td.org/metadata/etdms
                            http://oai.dlib.vt.edu/OAI/etdms.xsd"
        xml:lang="kor">

<title>毛澤東의 外交路線 研究 </title>
<title xml:lang="en">A Study of Mao's Foreign Policy Line</title>
<creator>남칠우</creator>
<publisher>건국대학교</publisher>
<subject>unprovided</subject>
<date>1999 </date>
<type>Thesis</type>
<format>unknown</format>
<language>kor</language>
<degree>
  <name>unspecified</name>
  <level>doctoral</level>
  <discipline>정치학과</discipline>
  <grantor>정치학과</grantor>
</degree>

</thesis>
```

Recap - 1

- ☞ **We are specifying**
 - **ETDMS**
 - **as the XML-encoded metadata standard (content and encoding) for Electronic Theses and Dissertations (ETDs)**
 - **in part conforming to Dublin Core (DC)**
 - **using RDF**
 - **using UNICODE**
- ☞ **+ specifying relationship with MARC**

Recap - 2

OCLC will:

- Identify TDs in WorldCat
- Through OAI make available metadata for WorldCat TDs in both DC and ETDMS
- Provide an authority service for personal and institutional names for NDLTD
- Coordinate with other authority services such as LC

Recap - 3

VTLS will

- Support NDLTD through a union catalog service implemented with Virtua
- Accept metadata in MARC21 or UNIMARC, and help identify other converters for other types
- Accept metadata in one other format, namely ETDMS
- Accept data in various character sets, with UNICODE preferred, but in some cases the submitter may be required to convert

Recap - 4

NDLTD members will

- Share metadata for their ETDs**
- Providing that in either ETDMS**
- or if they use a version of MARC locally, work to have that eventually shared in either MARC21 or UNIMARC**
- Run OAI, either locally or in consortia, so their metadata can be harvested, according to necessary terms and conditions**

Recap - 5

VT will

- Support ETDMS through MARIAN
- Extend Tony's software to
 - ◆ Produce ETDMS and act as OAI data provider
 - ◆ Launch authority software
 - ◆ Interface to authority sources

ETD Encoding Decisions

☞ Text

- UNICODE

☞ Structure

- MARC (MARC-21 or UNIMARC)

PLUS

- XML / RDF / DC + ETD

☞ Multimedia

- Emphasize use of international standards
- Only commit to preserving standard formats

Text Encoding

- ☞ Only UNICODE required for standard
 - Conversion may be required for legacy systems
 - ◆ and unusual languages / alphabets
 - VTLS will support some conversions
- ☞ Language identifiers should be used
 - To resolve ambiguities of presentation
 - And for content reasons ...

Structural I: MARC

“MARC for established practices; RDF for the future.” – Sarantos

☞ Records must be both

- Valid MARC records

- Valid ETD descriptions

☞ Both MARC-21 and UNIMARC supported

- VTLS provides conversion as practical

Structural II: RDF

- ☞ ETD metadata realized as an RDF *application profile*
 - Specifying elements from DC element set
 - Plus new elements from a registered ETD schema
 - Constraints & policies attached to both
 - ◆ (E.g. “Full title,” “Name as it appears on title page,” “Repeatable”)
- ☞ Links to authority records encoded as *URIs*
- ☞ XML syntax as per RDF standard

Harvesting

- ☞ Transform standalone archives into OAI data providers
 - Archives using Tony's software (drop-in code available)
 - Archives using other software (generic OAI templates available)

OAI – Repository Perspective

Required: Protocol

Set Structure
URI Scheme

MDO

MDO

MDO

MDO

MDO

MDO

MDO

MDO

DO

DO

DO

DO

Required: DC

Black Box OAI-ETD Perspective

www.theses.org

BN.PT
(Portugal)

Dissert.Online
(Germany)

CyberTheses
(Francophone)

ADT
(Australia)

SEALS
(S.Africa)

CBUC
(Catalunya)

NDC
(Greece)

ISTEC
(Ibero
America)

PhysDis

OhioLINK

CIC

VT

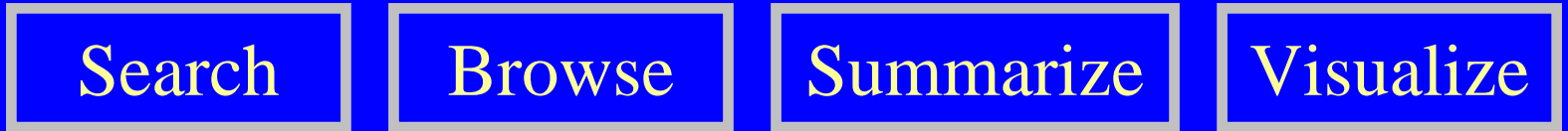
MIT

U. Bergen
(Norway)

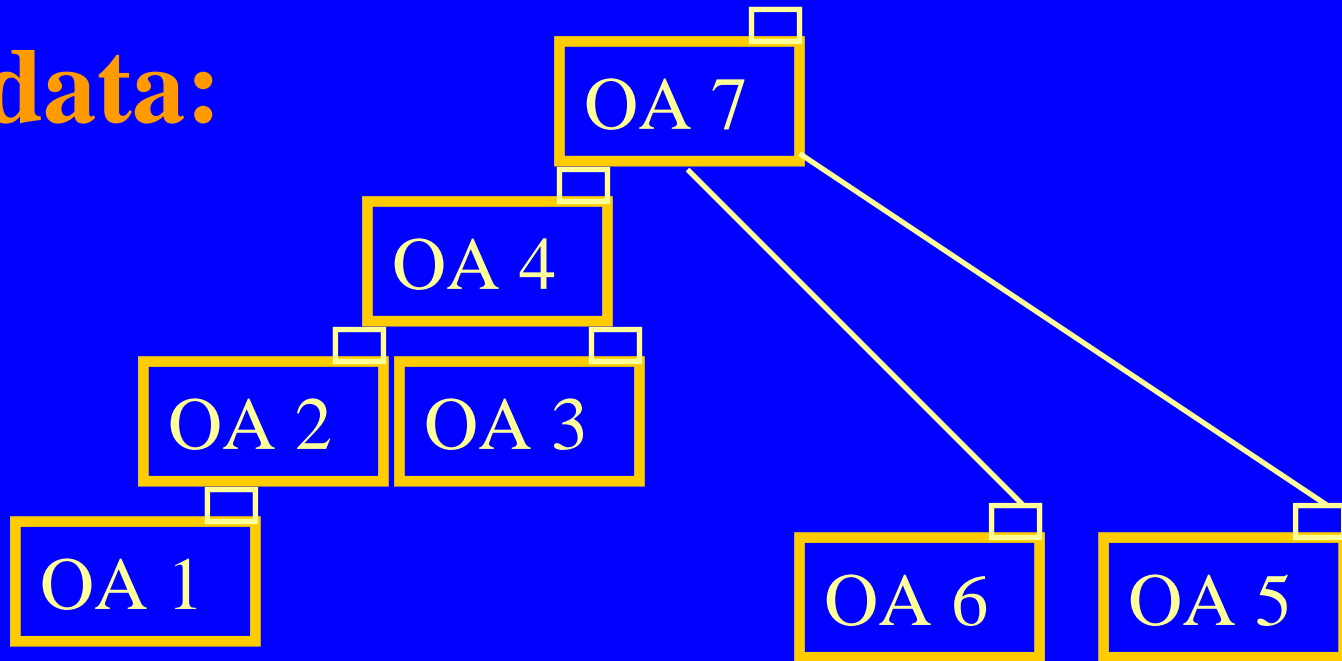
NSYSU
(Taiwan)

OAI – Black Box Perspective

Services:



Metadata:



Docs:



Union Collections

- ☞ Encourage and when possible link to others' union collections
 - OCLC: ~4M from WorldCat thru OAI
 - UMI: > 1M in Dissertation Abstracts, archive
- ☞ Create merged collection of ETD metadata
 - Harvest and store metadata
 - De-dupe, perform QC, add value
 - Provide data to service providers using OAI protocol
- ☞ Services layered on top
 - Production service by VTLS
 - Research service by Virginia Tech (using MARIAN)

MARIAN

- ☞ **Multiple Access Retrieval of Information with Annotations (Marian the Librarian ...)**
- ☞ **R. France dissertation, other theses, projects, ...**
- ☞ **Funding from NLM, NSF (w. DFG, CONACyT)**
- ☞ **Evolved from CODER system to a distributed Online Public Access Catalog (OPAC), then DL, now OAI data provider and service provider**
- ☞ **Use for www.theses.org as research system with gateway services (harvesting/federated search): OAI, Dienst, Harvest, Z39.50, ...**

Envision Query Window

File Edit Query Window Q

New Query
Do Search

Query History:

Q#	Found	Query - Short form
1	100	T:document retrieval
2	100	C:vector space search s
3	50	A:Salton; T:vector docu

Query #3

Authors:
Salton

Words in Title:
vector document text
processing retrieval

Content Words:

Best 25 Best 50 Best 100 Best

Envision Graphic View: Query #3

File Edit Results

Best 50 Items Found

Find Icon

Icon Label: Relevance Rank
Icon Color: Est. Relevance

Icon Size: Uniform
Icon Shape: Item Type

Color Legend
Least Relevant Most Relevant

User Rating
 Useful
 Not Useful

Shape Legend
Book Journal Article Proceedings Article

Y-Axis: Pub. Year

1984	31	18	
1985		13	
1986	27	10	
1987	38		
1988	35	28	12
1989	37	36	2
1991		8	7
1992	34		

X-Axis: Est. Relevance

Envision Item Summary: Query #3

Icon#	Useful	Est. Rel	Author/Editor	Year	Title
2		405	Salton, Gerard	1989	Automatic Text Processing: The Transformation, Analysis, and Retrieval of Information by
7		366	Salton, Gerard	1991	The Smart Project in Automatic Document Retrieval
8		361	Salton, Gerard	1991	Automatic Text Structuring and Retrieval : Experiments in Automatic Encyclopedia Searching
12		351	Salton, Gerald	1988	Automatic text processing

Envision Query Window

File Edit Query Window **Q**

New Query
Do Search

Query History:

Q#	Found	Query - Short form
1	100	T:document retrieval
2	100	C:vector space search s
3	50	A:Salton; T:vector docu

Query #3

Authors:
Salton

Words In Title:
vector document text
processing retrieval

Content Words:

Best 25 Best 50 Best 100 Best

Envision Graphic View: Query #3

File Edit Results

Best 50 Items Found

Find Icon: 1

Icon Label: Relevance Rank
Icon Color: Est. Relevance

Icon Size: Uniform
Icon Shape: Item Type

Color Legend: Least Relevant (light blue), Most Relevant (orange)

User Rating: Useful (red), Not Useful (white)

Shape Legend: Book, Journal Article, Proceedings Article

Y-Axis: Author

Author	1983	1984	1985	1986	1987	1988	1989
Bookstein, A.	5	6					
Lesk, M. E.							
Maro, M. E.	3						
Ozkarahan, E.					38		
Salton, G.	15	3 (16,17...)	18	13			37
Salton, Garard	33						
Salton, Gerald						12	
Salton, Gerard	29	31		10 27		28 35	2 36

X-Axis: Pub. Year

Envision Item Summary: Query #3

Icon#	Useful	Est. Rel	Author/Editor	Year	Title
2	Orange	405	Salton, Gerard	1989	Automatic Text Processing: The Transformation, Analysis, and Retrieval of Information by
12	Green	351	Salton, Gerald	1988	Automatic text processing
28	Light Blue	319	Salton, Gerard	1988	On the Use of Spreading Activation Methods in Automatic Information Retrieval
35	Light Blue	310	Salton, Gerard	1988	Automatic Text Indexing Using Complex Identifiers
36	Light Blue	310	Salton, Gerard	1989	On the Application of Syntactic Methodologies in Automatic Text Analysis

How: Cooperation: Local Responsibilities

- ☞ Handle local education and collection
 - Contact information for helpers
 - Archive (as an Open Archive Initiative site)
- ☞ Utilize standards
 - Metadata: MARC / DC-based consensus specification
- ☞ Share metadata
 - Union services, mirrored services worldwide
- ☞ Allow access
 - www.theses.org / www.dissertations.org
 - Open Archives Initiative (www.openarchives.org)

Summary & Conclusions:

Main Message

- ➡ Join NDLTD
- ➡ Work with others
- ➡ Share with others
- ➡ Encourage others to join, work, share, ...
- ➡ Win – Win – Win – Win - ...