



# Open Archiving @ Virginia Tech DLRL

Hussein Suleman

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<http://www.dlib.vt.edu>



# Why are we involved ?

- ◆ Networked Digital Library of Theses and Dissertations (NDLTD)
- ◆ MARIAN Information Retrieval System
- ◆ Computer Science Teaching Center (CSTC)
- ◆ PetaPlex
- ◆ Web Characterization Repository
- ◆ VT-Imagebase, CDDC, etc.

# Alpha Test Collection

- ◆ VT ETD Collection
  - Based at university library
  - Accessible through remote OAI interface
  - Approximately 3000 records
  - Dynamic
- ◆ NDLTD
  - Distributed digital library
  - Willingness of participants ?

*<http://smp2.cc.vt.edu/cgi-bin/husseini/vtetd/OAI1.0>*

# Issues in OAI-Compliance

- ◆ Cleaning of data
- ◆ Rights management and ownership
- ◆ USMARC, rfc1807 and DC
- ◆ Resumption tokens
- ◆ Existing protocols and layering

*<http://smp2.cc.vt.edu/cgi-bin/husseini/vttd/OAI1.0>*

# Technical Requirements

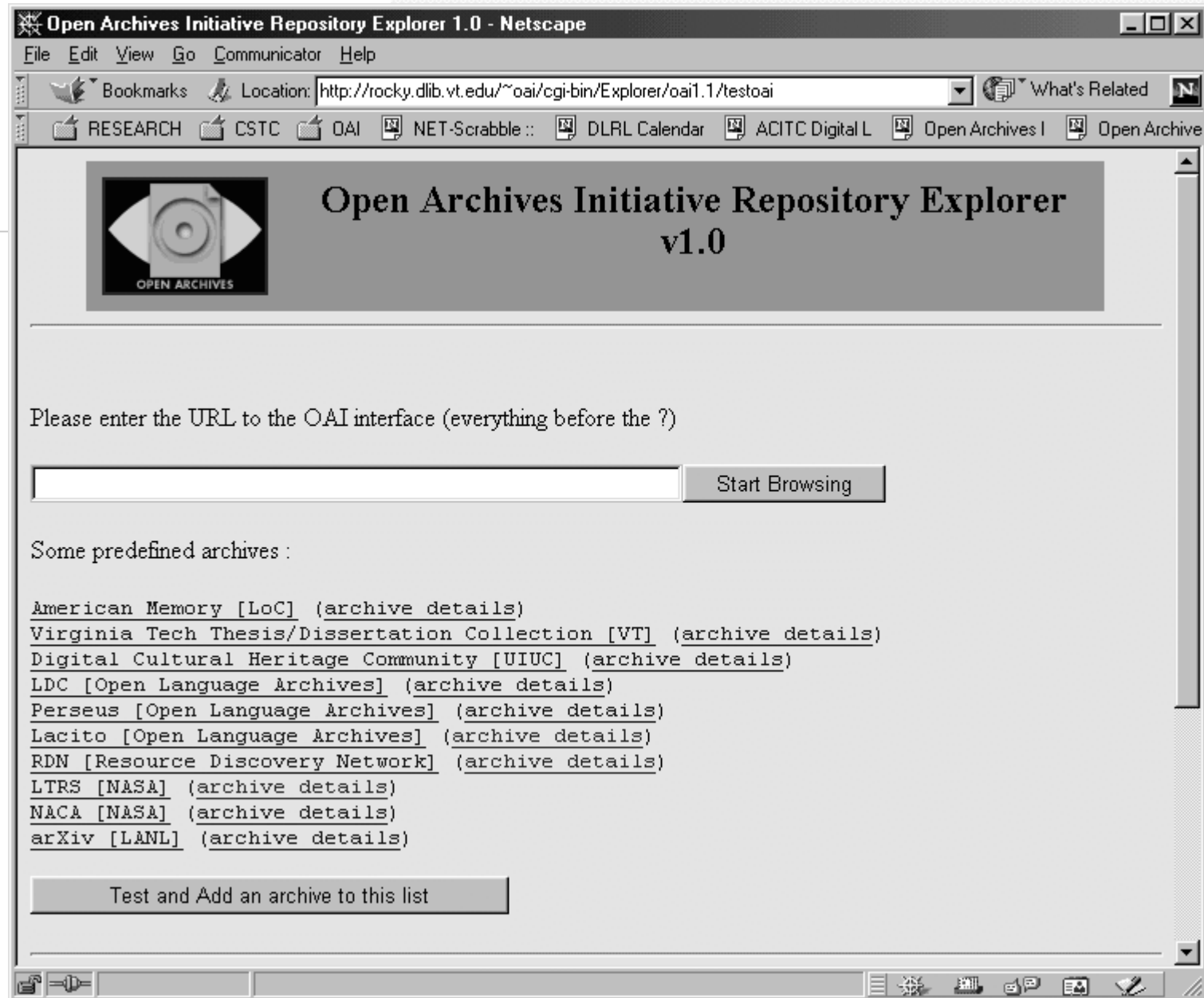
- ◆ Implemented in Perl for flexibility and platform-independence
- ◆ Original implementation took 3 hours, after a first reading of protocol !

*<http://smp2.cc.vt.edu/cgi-bin/hussein/vteta/OAI1.0>*

# Repository Explorer

- ◆ Need consistency for NDLTD
- ◆ Online vs Offline
- ◆ Protocol and XSD testing
- ◆ Interactive browsing
- ◆ Automatic test suite
- ◆ List of demonstration archives

*[http://purl.org/net/oai\\_explorer](http://purl.org/net/oai_explorer)*



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Open Archives Initiative Repository Explorer 1.0 - Netscape

File Edit View Go Communicator Help

Bookmarks Location: <http://rocky.dlib.vt.edu/~oai/cgi-bin/Explorer/oai1.0/testoai> What's Related

RESEARCH CSTC OAI NET-Scrabble DLRL Calendar ACITC Digital L Open Archives I Open Archive



## Open Archives Initiative Repository Explorer v1.0

<http://smp2.cc.vt.edu/cgi-bin/hussein/vttd/OAI1.0?verb=Identify>

Archive details : <http://etd.vt.edu>

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### Archive Self-Description

Repository Name	Virginia Tech Electronic Thesis and Dissertation Collection
Base URL	<a href="http://researchsmp2.cc.vt.edu:80/cgi-bin/hussein/vttd/OAI1.0">http://researchsmp2.cc.vt.edu:80/cgi-bin/hussein/vttd/OAI1.0</a>
Protocol Version	1.0
Admin Email	<a href="mailto:hussein@vt.edu">mailto:hussein@vt.edu</a>
	description: oai-identifier:

Document: Done


*[http://purl.org/net/oai\\_explorer](http://purl.org/net/oai_explorer)*

Open Archives Initiative Repository Explorer 1.0 - Netscape

File Edit View Go Communicator Help

Bookmarks Location: <http://rocky.dlib.vt.edu/~oai/cgi-bin/Explorer/oai1.0/testoai> What's Related

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## Open Archives Initiative Repository Explorer v1.0

<http://smp2.cc.vt.edu/cgi-bin/hussein/vttd/OAI1.0?verb=ListMetadataFormats>

Archive details : <http://etd.vt.edu>

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### List of Metadata Formats

*Click on the link to view schema*

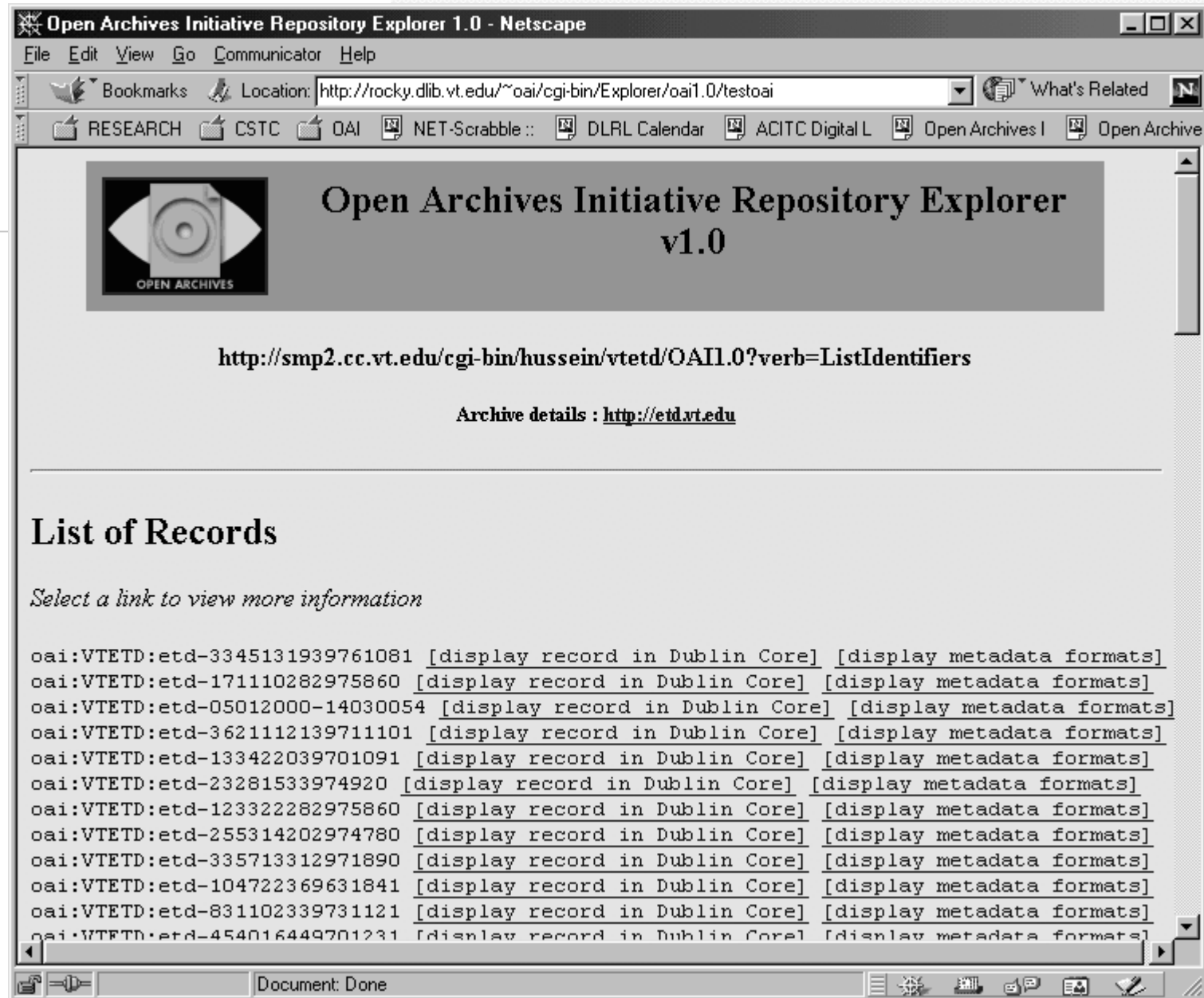
Prefix=[oai\_rfc1807]  
NameSpace=[<http://info.internet.isi.edu:80/in-notes/rfc/files/rfc1807.txt>]  
Schema=[<http://www.openarchives.org/OAI/rfc1807.xsd>]

Prefix=[oai\_marc]  
NameSpace=[[http://www.openarchives.org/OAI/oai\\_marc](http://www.openarchives.org/OAI/oai_marc)]  
Schema=[[http://www.openarchives.org/OAI/oai\\_marc.xsd](http://www.openarchives.org/OAI/oai_marc.xsd)]

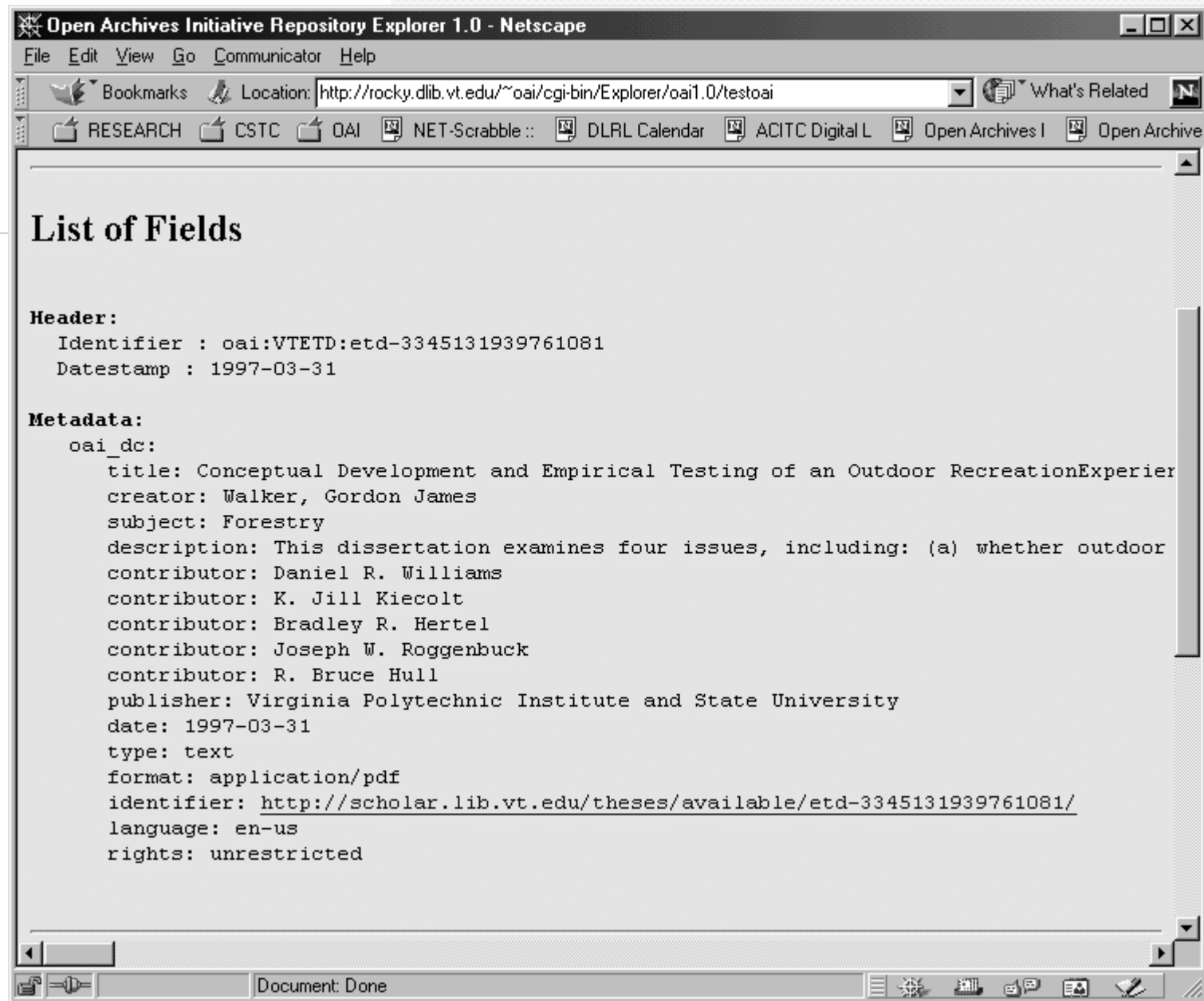
Prefix=[oai\_dc]  
NameSpace=[<http://purl.org/dc/elements/1.1/>]  
Schema=[<http://www.openarchives.org/OAI/dc.xsd>]

Document: Done

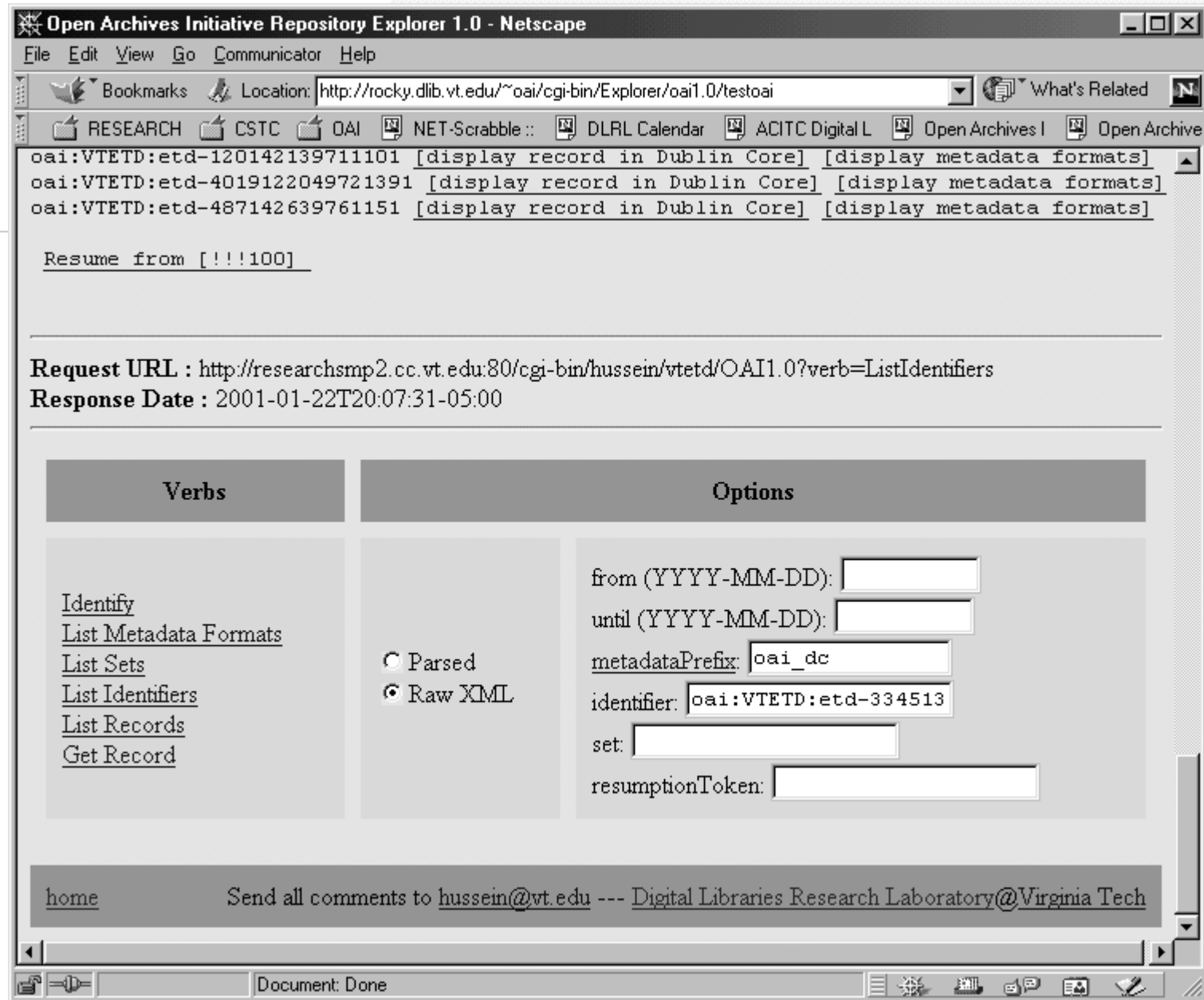
*[http://purl.org/net/oai\\_explorer](http://purl.org/net/oai_explorer)*



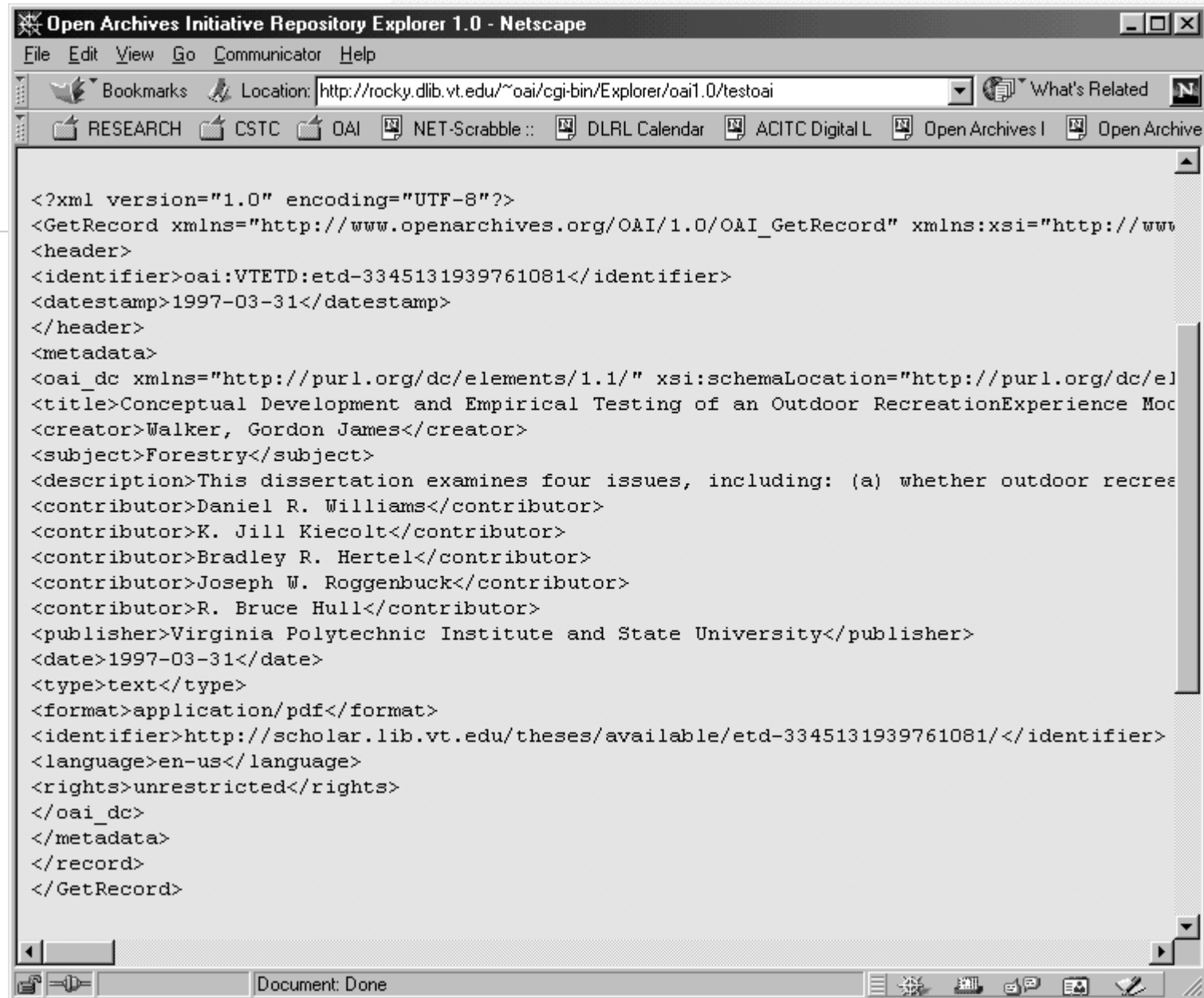
[http://purl.org/net/oai\\_explorer](http://purl.org/net/oai_explorer)



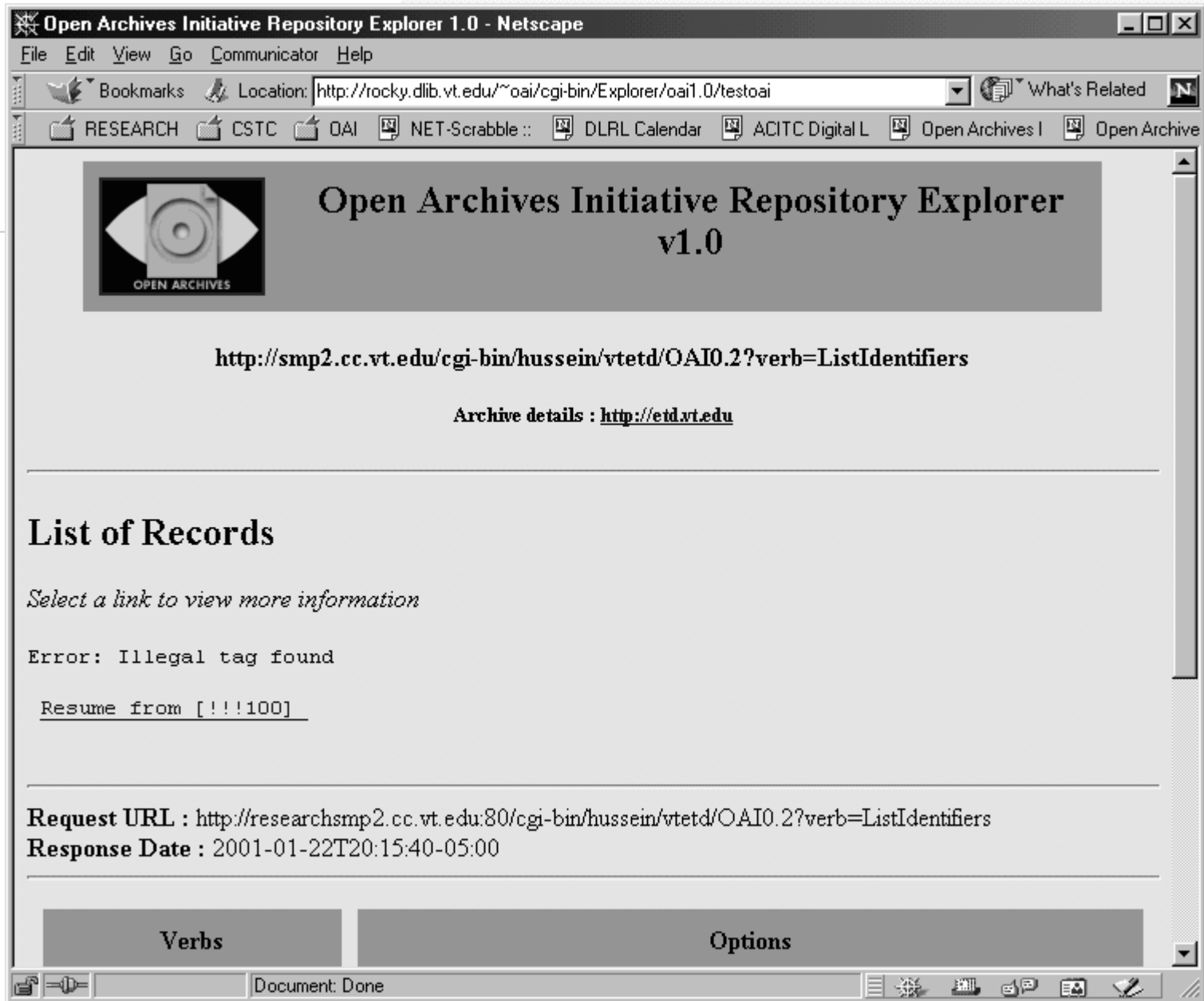
*[http://purl.org/net/oai\\_explorer](http://purl.org/net/oai_explorer)*



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# Ongoing Projects

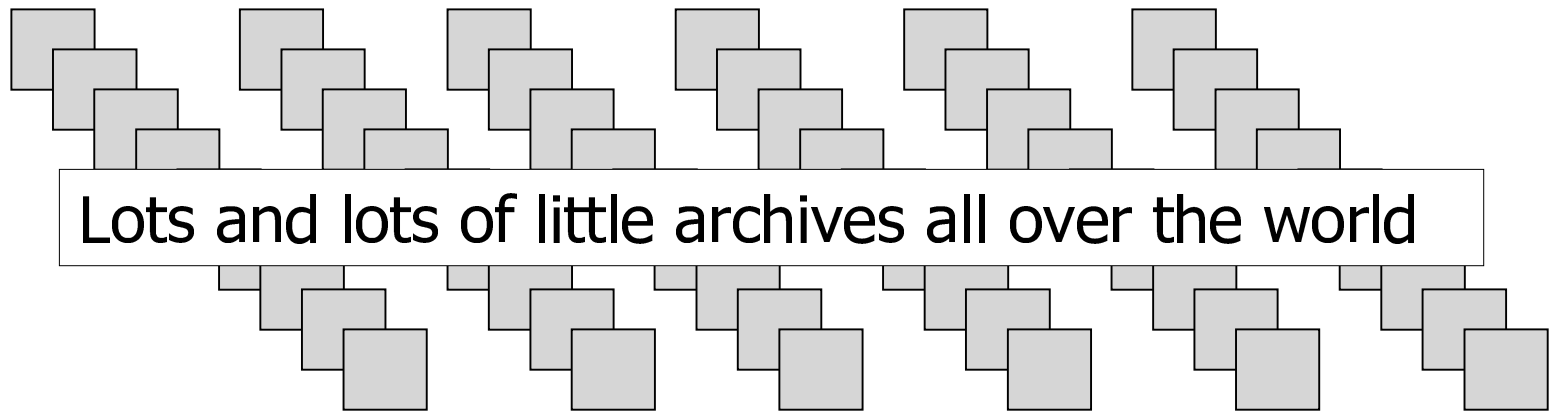
- ◆ MARIAN OAI input/output filters
- ◆ oai\_marc definition, encoding and conversion
- ◆ Perl, JAVA codebase
- ◆ NDLTD Union Collection
  - VTLS
  - PhysDis



# Ongoing Projects 2

- ◆ VT Digital Library
  - Central digital document archive
- ◆ CSTC and iLumina
  - Distributed DL for educational material

# Vision



International  
ETD Archive

International  
Teaching Resources  
Archive

Etc ...