

# Hydra, BL@H and CLIF Fedora at Hull

Richard Green and Chris Awre

*Fedora UK & Ireland User Group, LSE London, 13<sup>th</sup> December 2010*

# Hydra, BL@H and CLIF

- The University of Hull has run a Fedora-based repository in production since 2008
- ‘Library and Learning Innovation’ at Hull currently involved with three Fedora projects aimed at future enhancement:
  - Hydra
    - A collaboration originally with Stanford, Virginia and Fedora/DuraSpace, now including MediaShelf and taking on others
    - Related to this is AIMS, a project looking at archiving born-digital materials (Mellon funded to September 2011, involves also Hull University Archives and Yale University). A presentation in its own right for next time, maybe?
  - BL@H
    - Blacklight @ Hull (JISC-funded, just completing)
  - CLIF
    - Content Lifecycle Integration Framework (JISC-funded, ends March 2011)

# Hydra

- Current Hull repository (eDocs) based on Muradora and Fedora 2.x
  - Not sustainable: Muradora project closed, insufficient community to refactor and improve code
- Meetings at OR08 led to a partnership of Hull, Stanford and Virginia + Fedora/DuraSpace sharing two fundamental assumptions:
  - No single system can provide the full range of repository-based solutions for a given institution's needs, yet sustainable solutions require a common repository infrastructure
  - No single institution can resource the development of a full range of solutions on its own, yet each needs the flexibility to tailor solutions to local demands and workflows

# Hydra

- Three year (?) Hydra project was set up, self –funded; now just over two years in
- As a technical framework, it provides a toolkit of reusable components that can be combined and configured in different arrays to meet a diversity of content management needs
- As a community framework, Hydra provides like-minded institutions with the mechanism to combine their individual development efforts, resources and priorities into a collective solution with breadth and depth that exceeds the capacity of any single institution to create, maintain or enhance on its own

# Hydra

- Hydra's ultimate objective is to produce a community-sourced, sustainable application framework that provides rich and robust repository-powered solutions as an integrated part of an overall digital content management architecture
- Different content and associated workflows dealt with by Hydra 'heads' over a common technical core
- Uses Blacklight (community source software) for discovery and download (the 'R' of CRUD)
- Uses MediaSelf developed code for create, update, delete
- Both Blacklight and Hydra are Ruby on Rails + Solr based
- Beta (or was it an alpha?) released autumn 2010 (Hydrangea)

# Hydra

- Hull working on an Institutional Repository Hydra head
  - General purpose for range of IR content
    - Policies, committee papers, ETDs, datasets, images, learning materials (inc handbooks), research materials, past examination papers, ..., ...
  - Multiple content sources
    - Bespoke software tools (inc from RepoMMan/REMAP projects)
    - Research Information System
    - CLIF
    - Hydra itself (eventually)
  - Multiple discovery paths (Hydra, BL@H)
- Production planned for Spring 2011 alongside eDocs
- eDocs planned to be turned off August 2011


 in [All Fields](#) 

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- ▶ [Subject](#)
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#### Popular searches:



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### About Hydra

The Hydra project is developing a new repository for digital materials at the University of Hull. This will eventually replace the beta-test eDocs system that has been trialled for some time. The new repository can hold and manage any type of digital material, and is being developed in response to the growth in the amount of digital material that is generated through the research, education and administrative activities within the University. The repository is particularly well suited for materials that can be shared (openly or on a restricted basis) and/or where the material needs to be preserved for the medium to long-term. Materials currently being managed through the eDocs repository include images, project reports, undergraduate dissertations, teaching materials, datasets, collections of past exam papers and doctoral theses.

The repository is being developed by Academic Services at the University working in close co-operation with other members of the academic community.


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green in All Fields Search

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You searched for:

Keyword > green x

Displaying all 5 items Start again

Sort by relevance Show 10 per page

**1. Content models in the Hydra Project**

Title: Content models in the Hydra Project

Author/Creator: Green, Richard A

Genre: Examination paper

Subject: Hydra

Language: English



**2. An investigation of the factors which influence the degree of patient involvement in the physiotherapeutic consultation**

Title: An investigation of the factors which influence the degree of patient involvement in the physiotherapeutic consultation

Author/Creator: Green, Angela Jane

Genre: Thesis or Dissertation; PhD

Subject: Postgraduate Medical Institute; Physiotherapy

Language: English



**3. Towards a Repository-enabled Scholars Workbench: RepoMMan, REMAP and Hydra**

Title: Towards a Repository-enabled Scholars Workbench: RepoMMan, REMAP and Hydra

Author/Creator: Green, Richard A; Awre, Christopher L

Genre: Journal article

Subject: RepoMMan; REMAP; Hydra

Language: English



**4. Designing and building a reusable framework for multipurpose, multifunction, multi-institutional repository-powered solutions**

Title: Designing and building a reusable framework for multipurpose, multifunction, multi-institutional repository-powered solutions

Author/Creator: Cramer, Tom; Green, Richard A; Sadler, Bess

Genre: Presentation

Subject: Hydra

Language: English



**5. Case studies in workflow: Three approaches**


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Keyword: green x

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### An investigation of the factors which influence the degree of patient involvement in the physiotherapeutic consultation

Title: An investigation of the factors which influence the degree of patient involvement in the physiotherapeutic consultation

Author/Creator: Green, Angela Jane

Subject(s): Postgraduate Medical Institute; Physiotherapy

Genre: Thesis or Dissertation; PhD

Abstract/Description: The term patient involvement is widely used within the physiotherapy vocabulary, yet it is poorly defined and understood. Little is known about NHS physiotherapists attitudes, knowledge or skills regarding patient involvement. The aims of this thesis were therefore to: i) identify the attributes which define the concept of patient involvement in physiotherapy using a method of concept analysis; ii) investigate physiotherapists' attitudes towards the involvement of patients by means of a national survey; iii) explore patients' attitudes towards their involvement in the physiotherapy consultation using a local survey; iv) explore physiotherapists' ability to recognise effective practice in patient involvement by means of a regional study using video vignettes of simulated consultations; v) ascertain to what extent physiotherapists involve patients in their physiotherapy care by means of an in-depth local observational study.

Contributor(s): Klaber Moffett, Jennifer (Thesis advisor); Sharp, Donald (Thesis advisor)

Date: 2008

Language: English

Publisher: Postgraduate Medical Institute, The University of Hull

Extent: Thesis document and three supporting wmv format videos

Identifier: hull:756

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Resource	Type	Function	Approx size
Thesis	application/pdf	Download	2.5 MB
Scenario 1 video	video/x-ms-wmv	Download	52.6 MB
Scenario 2 video	video/x-ms-wmv	Download	56.1 MB
Scenario 3 video	video/x-ms-wmv	Download	70.8 MB

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You searched for:

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Showing 2 of 5 items from your search. Start again

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Resource	Type	Function	Approx size
Thesis	application/pdf	Download	2.5 MB
Scenario 1 video	video/x-ms-wmv	Download	52.6 MB
Scenario 2 video	video/x-ms-wmv	Download	56.1 MB
Scenario 3 video	video/x-ms-wmv	Download	70.8 MB

#### Show additional resources

Additional resource information		
MODS metadata	text/xml	<a href="#">View</a>
DC metadata	text/xml	<a href="#">View</a>
UKETD_DC metadata	text/xml	<a href="#">View</a>
RELS-EXT datastream	application/rdf+xml	<a href="#">View</a>


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### Limit your search

▶ [Subject](#)

- [Maritime Historical Study Centre \(MHSC\) \(10\)](#)
- [Postgraduate Medical Institute \(6\)](#)
- [Hydra \(5\)](#)
- [University of Hull \(4\)](#)
- [Psychology \(3\)](#)
- [Medicine \(2\)](#)
- [Cell and molecular medicine \(1\)](#)
- [Hull campus \(1\)](#)
- [Music \(1\)](#)
- [Physiotherapy \(1\)](#)

▶ [Author/Creator](#)

▶ [Genre](#)

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You have no search selected. Create a search by adding a search term in the box above and/or by using the filters at the left of the screen.

#### Popular searches:



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[Hydra materials](#)

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**Limit your search**

## ▶ Subject

- Postgraduate Medical Institute (6)** [\[remove\]](#)
- Medicine (2)
- Psychology (2)
- Cell and molecular medicine (1)
- Physiotherapy (1)

## ▶ Author/Creator

## ▶ Genre

**You searched for:**

No Keywords

✓ Subject ▶ Postgraduate Medical Institute x

Displaying all 6 items

Sort by **relevance** Show **10** per page

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Title: An investigation of the factors which influence the degree of patient involvement in the physiotherapeutic consultation



Author/Creator: Green, Angela Jane

Genre: Thesis or Dissertation; PhD

Subject: Postgraduate Medical Institute; Physiotherapy

Language: English

### 2. Supervisors' perspectives on their supervisory relationships: a qualitative analysis

Title: Supervisors' perspectives on their supervisory relationships: a qualitative analysis



Author/Creator: Clohessy, Sue

Genre: Thesis or Dissertation; PsyD

Subject: Postgraduate Medical Institute; Psychology

Language: English

### 3. Streptavidin-cytokine fusion proteins for use as adjuvants in cancer vaccines

Title: Streptavidin-cytokine fusion proteins for use as adjuvants in cancer vaccines



Author/Creator: Henderson, Rosalind

Genre: Thesis or Dissertation; PhD

Subject: Postgraduate Medical Institute; Cell and molecular medicine

Language: English

### 4. The role of intracellular and extracellular cysteines in regulating human proteinase-activated receptor-2 (hPAR2) function

Title: The role of intracellular and extracellular cysteines in regulating human proteinase-activated receptor-2 (hPAR2) function



Author/Creator: Botham, Andrew Michael

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## BL@H

- Blacklight @ Hull
  - JISC 12/09 Enhancing library management systems
  - 6 month project
  - To look at layering Blacklight over Hull's existing Millennium catalogue
  - To then extend that to query both the OPAC and the Fedora-based Hydra repository in order to provide a single point of access to resources
- Funding ended October 2010
  - Final report about to be published
  - Basically, it works rather well...
- Interest at Hull in implementing this for production in due course

 in **All Fields**  [Advanced](#)

#### Limit your search

- ▶ Call number
- ▶ Format
- ▶ Language
- ▶ Library
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- ▶ Source
- ▶ Subject

#### Welcome to the BL@H (Blacklight at Hull) site!

You have no search selected. Create a search by adding a search term in the box above and/or by using the filters at the left of the screen.

#### About BL@H

'Blacklight at Hull' is based at the University of Hull but involves colleagues at Stanford University who are existing partners in another, non-JISC, project (Hydra). The overall aim of the case study is to investigate the use of Blacklight as an alternative and more flexible discovery interface to the University of Hull's Millennium library catalogue and understand the issues and benefits of extending this search to include local digital resources held in the institutional repository.



Cramer in All Fields Search Advanced

Limit your search

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- ▶ Language
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- ▶ Publication date
- ▶ Source
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You searched for:

✓ All Fields > Cramer x

Displaying items 1 - 10 of 124 Start again

« Previous Next » 1 2 3 4 5 6 7 8 9 ... 12 13

Sort by relevance Show 10 per page

**1. Designing and building a reusable framework for multipurpose, multifunction, multi-institutional repository-powered solutions**

Author: Cramer, Tom, Green, Richard A, Sadler, Bess  
 Language: English  
 Source: Repository

**2. Case studies in workflow: Three approaches**

Author: Green, Richard A, Piazza, Nathan, McRae, Lynn, Cramer, Tom, Sigmon, Tim, Wayland, Ross  
 Language: English  
 Source: Repository

**3. Verzen van verzet.**

Author: Cramer, Rie.  
 Format: Book  
 Language: Dutch  
 Publication date: 1945  
 Source: Library Catalog



**4. The world's police.**

Author: Cramer, James.  
 Format: Book  
 Language: English  
 Subject: Penology, Police  
 Publication date: 1964







You searched for:

- ✓ All Fields > Cramer x
- ✓ Publication date > 2008 x

Showing 1 of 3 items from your search. [Start again](#)

### Introduction to SPSS in psychology



[Cite This](#) | [Export to RefWorks](#) | [Export to EndNote](#) | [Librarian View](#)



Title: Introduction to SPSS in psychology : for version 16 and earlier /

Author/Creator: Howitt, Dennis.

Added name(s): Cramer, Duncan,

Subject(s): SPSS for Windows; Psychometrics

Asset source: Library Catalog

Pages: 377p

ISBN: 9780132051644; 0132051648

Date: 2008

Language: English

Publisher: Harlow ; New York : Pearson/Prentice Hall, 2008

Additional notes: Includes 1 CD-ROM.

Identifier: 982007041688

### Location/Availability

Location	Shelved at	Status
BIL 7th Floor	BF 39 H8	DUE 10-11-10


 in **All Fields**  [Advanced](#)

### Limit your search

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- ▶ [Format](#)
- ▶ [Language](#)
- ▶ [Library](#)
- ▶ [Publication date](#)

#### ▼ [Source](#)

[Library Catalog \(751,989\)](#)  
[Repository \(29\)](#)

#### ▼ [Subject](#)

[Education \(9,417\)](#)  
[Europe \(7,968\)](#)  
[Bible \(7,616\)](#)  
[Labour \(7,029\)](#)  
[Great Britain \(6,500\)](#)  
[Sermons, English \(6,411\)](#)  
[Church of England \(5,878\)](#)  
[English literature \(5,857\)](#)  
[United States \(5,833\)](#)  
[Philosophy \(5,589\)](#)

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### Search tips

Select "match all" to require all fields.

Select "match any" to find at least one field.

Combine keywords and attributes to find specific items.

All words in a field are required, unless you specify otherwise.

Use "OR" to search alternate words.

Use - (minus) to exclude a word.

Truncation and wildcards are not supported - word-stemming is done automatically.

### Advanced Search

Find items that match  of the fields below: AND have these attributes:

Author:

Title:

Subject:

Keyword:

Numbers:

- ▶ Call number
- ▶ Format
- ▶ Language
- ▶ Library
- ▶ Publication date
- ▶ Source
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Sort results by


[clear form](#)



in **All Fields**  [Advanced](#)

Limit your search

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- ▶ Language
- ▶ Library
- ▶ Publication date
- ▶ Source
- ▶ Subject

 You searched for:

No Keywords

Displaying items 1 - 10 of 752,018

« Previous Next »

1 2 3 4 5 6 7 8 9 ... 75,201 75,202

Sort by **relevance**

Show **10** per page

**1. An enquiry into the life and writings of Homer, 1973.**

Author: Blackwell, Thomas, the younger.

Format: Book

Language: English

Subject: Greek literature

Publication date: 1972

Source: Library Catalog



**2. Doctoral dissertations on Asia : an annotated bibliographical journal of current international research., Doctoral dissertations on Asia.**

Format: Periodical

# CLIF

- CLIF
  - JISC IE Programme: Repositories enhancement
  - 21 month project joint with CeRch at King's College London
  - Taking the repository upstream into existing workflows, specifically Microsoft SharePoint and Sakai (Hull's VLE – badged as eBridge)
- Intended to provide two-way transfer between repository and other working environments
  - Each app (SharePoint, Sakai, Hydra) can be used at its appropriate point in the content lifecycle and the content is easily transferred between them as appropriate
- Completes March 2011
  - SharePoint 2007 essentially working; 2010 to be investigated
  - Sakai (based on heavily modified CTREP code) working for download

# Document Center

All Sites

Home > Document Center > Documents



Home > Document Center > Documents

## Documents

View All Site Content

### Site Hierarchy

- Documents
- Announcements
- Tasks
- yigiyigi Tasks

Share a document with the team by adding it to this document library.

New   View: **All Documents**

Type	Name	Modified	Modified By	dt
	access_denied	5/14/2010 5:10 PM	Andrew Thompson	dt
	Computing News submission August 2010 revised	10/29/2010 12:47 PM	Chris L Awre	dt
	D3-4-5 v10 100805	10/25/2010 4:05 PM	Richard Green	dt
	IMG_8495_Any	10/27/2010 9:29 AM	Andrew Thompson	dt
	Mazda RX8 - Changing coils	10/25/2010 9:54 AM	Simon W Lamb	dt
	Visio-CLIF_Architecture_v2	10/21/2010 12:08 PM	Andrew Thompson	dt

Recycle Bin

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Home | **Document Center** | News | Reports | Search | Sites

**Site Actions**



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## Documents

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View: **All Documents**

View All Site Content

### Site Hierarchy

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Type	Name	Modified	Modified By	dtyu6Suy
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	Mazda RX8 - Changing coils	10/25/2010 9:54 AM	Simon W Lamb	
	Visio-CLIF_Architecture_v2	10/21/2010 12:08 PM	Andrew Thompson	

- Copy to repository
- View Properties
- Edit Properties
- Manage Permissions
- Edit in Microsoft Office Word
- Delete
- Send To
- Convert Document
- Check Out
- Publish a Major Version
- Version History
- Workflows

Recycle Bin

# Copy to repository

Copy to repository

Please add any metadata you require to describe the object in the repository. Not displaying a form will result in that type of metadata NOT being added. The options panel enables you to display more than one metadata capture form (you may need to scroll to the bottom of the page to find the last form).

Options :

- Include Basic MODS
- Include Full MODS
- Include DC

## MODS Metadata

### Title Info

Title

### Author/creator

Author/creator  [+ Add another](#) [- Remove](#)  
Role type

Type of resource   
Genre

Date issued

Language term type   
Publisher

### Physical Description

Extent   
Internet media type

Digital origin

Abstract

### Subject



Andys Sakai : Fedora : default page - Mozilla Firefox

File Edit View History Bookmarks Tools Help

383509-vm-java https://383509-vm-java:8080/portal/site/Fedora

Most Visited Getting Started Latest Headlines

Andys Sakai : Fedora : def... x (Untitled)

# Sakai

Logout

My Workspace 01 02 Administration Workspace Fedora -more-

Unpublished Site

default page Help

Users present: Sakai Administrator

## Resources

Location: Fedora Resources / localhostFedora

Copy | Remove | Move

Title	Access	Created By	Modified	Size
localhostFedora				
ADIR-383509 sharepoint ingest	Entire site	fedoraAdmin		0 bytes
ADIR-383509 sharepoint ingest	Entire site	fedoraAdmin		0 bytes
ADIR-383509 sharepoint ingest	Entire site	fedoraAdmin		0 bytes
ANDY-B8AFFE6405-Administrator sharepoint ingest	Entire site	fedoraAdmin		0 bytes
Content Model Object for All Objects	Entire site	NOT_SET		0 bytes
Content Model Object for Content Model Objects	Entire site	NOT_SET		0 bytes
Content Model Object for Service Definition Objects	Entire site	NOT_SET		0 bytes
Content Model Object for Service Deployment Objects	Entire site	NOT_SET		0 bytes

Note: 'size' problem (reporting as 0 bytes) since fixed

# Thanks!

- Many people involved in this work without whom it wouldn't be successful!!! Amongst whom:
  - Hull
    - Simon Lamb (Hydra and BL@H); Dianne Leeson (BL@H); Andrew Thompson (CLIF)
  - King's College (CLIF)
    - Mark Hedges (CLIF); Suresh Thampi (CLIF); Simon Waddington (CLIF)
  - Stanford
    - Tom Cramer (Hydra & BL@H); Naomi Dushay (Hydra & BL@H); Lynn McRae (Hydra); Bess Sadler (Hydra & BL@H)
  - Virginia
    - Robin Ruggaber (Hydra); Tim Sigmon (Hydra); Martha Sites (Hydra);
  - Fedora/DuraSpace
    - Thornton Staples (now at the Smithsonian) (Hydra)
  - MediaShelf
    - Eddie Shin (Hydra); Matt Zumwalt (Hydra)

# Links

- Hydra
  - Wiki: <http://wiki.duraspace.org/display/hydra>
  - Site (in preparation): <http://projecthydra.org/>
  - Code: <http://github.com/projecthydra/hydrangea>
- BL@H
  - Blog: <http://blacklightathull.wordpress.com/>
  - Demo site: <http://blacklight.hull.ac.uk/>
- CLIF
  - Site: <http://www.hull.ac.uk/clif/>
- Mail
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  - [c.awre@hull.ac.uk](mailto:c.awre@hull.ac.uk)

