

ALL ROADS LEAD TO ROME: A LIBRARY INFORMATION MANAGEMENT SYSTEM GROWS WINGS

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Abstract

The major investment for any library and hence its parent organization is its information management system (LIMS). Combine this with the expertise that library staff have, especially in the area of metadata creation and storage (aka. cataloguing) and asset management and control (aka. circulation), libraries are in an excellent position to assist in describing, managing, providing access to and exchanging data about an organisation's non-library assets and resources, both tangible and intangible.

CQU Library is strongly committed to minimizing data keying / rekeying and the number of parallel systems it runs. This is achieved through the capture, creation and storage of metadata in only one location (namely the LIMS database) and then displaying and reusing this metadata in a variety of permutations, with the use of web-based technologies and simple data exchange protocols.

While managing its own resources this way now for a number of years eg. Course Resources Online and Historical Coastlines Images Archives, the Library is now working with the wider University community to capture the information about, share and re-use the source metadata and make more accessible non-library resources such as the University's intellectual property / research output, its art collection and videostreams.

This paper will fully explore the rationale behind this approach and showcase some of the ways it has been implemented.

CQUniversity Background

CQUniversity (formerly Central Queensland University) is a regional university based in Rockhampton, Queensland. The University has over 20,000 students spread across 10 campuses located in Rockhampton, Bundaberg, Emerald, Gladstone, Mackay, Gold Coast, Brisbane, Sydney and Melbourne. It also has delivery sites at Pomona on the Sunshine Coast and off-shore in Singapore. A great number of the University's students study off-campus.

The Division of Library Services (DLS) is responsible for the library services on the Central Queensland campuses and the Pomona delivery site. It has service level agreements in place for all other University campus libraries and off-shore delivery sites, which are managed by several corporate partners.

The Division comprises 2 main sections - Information Services and Resource and Access Services. Information Services is responsible for the delivery of information, liaison, collection management, lending and corporate services. Resource and Access Services manages the acquisition, subscription, cataloguing, document delivery, central registration of copyright, licence negotiations and end processing of all resources for all campus libraries and delivery sites.

As a regional university struggling to attract domestic students in the current economic climate all ICT infrastructure systems and developments are constantly under review to ensure that the best and most effective use is made of them and associated human resources.

With the profusion of online resources it has also become evident that associated descriptive information is essential for effective, consistent and long-term retrieval and access. Keywords are not always enough. For better or worse, the MARC 'metadata' standard has been in existence for a long time, as have library

information management systems to store, manage and manipulate this data to effectively provide access to a multitude of resources.

With this in mind the Division of Library Services has been actively promoting the library's information management system (LIMS) as a proven, stable and expandable platform able to manage and provide access to more than just books.

A new Library Information Management System

In 2002 the Library upgraded its library information management system, from VTLS' Classic to Virtua which, apart from the normal acquisitions, serials, circulation and catalogue modules included a number of new DIPO (Drop-in, Pull-out) components and technological features which have been progressively deployed during the last 6 years to capture resource data and enhance access. These components and features include

- MetaCat
- OpenURL link resolver
- Search Skins

And it is these modules and features which have enabled us to develop and deploy the resource infrastructure we now have in place and continue to deploy to manage our own as well as some of the University's resources and assets.

MetaCat

The first and most important of these has been the cataloguing system, MetaCat which has become central to our approach to streamlined data capture, management and reuse.

'MetaCat is a three-tier cataloguing system consisting of

1. A Web-based forms interface that you can access on your PC via a Web-browser.
2. A set of scripts and configuration files on the server that determine the content of these forms and process records which are displayed, added, deleted, and modified. Additionally, the MetaCat server utilities include a set of tools for data management, such as importing and exporting data from the database.
3. A MySQL database that stores cataloged records.' (VTLS Users' Guide – MetaCat, 2002)

This module is extremely easy to use and once installed on a server does not require extensive ICT skills or dedicated support to maintain. Anyone with minimal training can set up and manage independent cataloguing projects through the creation of web-based forms and associated help screens, which can then be deployed for use by other non-cataloguing staff to capture resource specific data and information as required.

The form can also be partially or fully populated through the importation of existing data from a .csv or .txt file. The data can then be verified and more fully enhanced as required through the web interface.

Each project has its own MARC configuration file which allows the mapping of the data entered in the web-form fields to respective MARC tags. Generic MARC tags and/or information can also be added to this file to create a comprehensive MARC record. While this configuration file does require cataloguing knowledge to create, once it is compiled it requires no further attention.

Once complete, the MARC records are then loaded into the library's catalogue via a one off or regularly scheduled file transfer protocol (ftp) depending on the nature of the project.

Via Cassia - Course Resources Online (CROs)

With the advent of the Digital Amendment Act changes to the Copyright Act in March 2001 the Library became responsible for the University's Central Registration System of Digital Resources, Course Resources Online (CROs). In its early days Course Resources Online was managed through an MS Access database and available to students via a web-based Index page linking to an extensive list of course-specific web pages which in turn listed all relevant readings. This meant that Course Resources Online lived outside the catalogue and therefore separate to the University's video-assisted learning (VAL) videotapes, reserve collection items and external study notes which were accessible through brief records. Students had to be taught to go to 2 separate locations and search interfaces to find all which was relevant to their course(s).

As the manager of the University's Central Registration of Copyright System we also knew that Copyright Agency Limited (CAL) audits would occur on a regular basis and we needed to have a system in place which could easily and effectively collect and report on what was being communicated online by the University during a designated audit period.

The upgrade of our information management system in 2002 was therefore fortuitous as it provided us with the necessary technological infrastructure to totally revise the way we captured, provided access to, and information about Course Resources Online. Consequently Course Resources Online was the first cab off the rank for us in deploying the newly acquired MetaCat module and allowing us to 'kill two (and possibly even three) birds with one stone.'

CRO requests are submitted by academic staff via an online form. Initially library staff had to manually re-enter the data received into MetaCat, but this time-consuming and unnecessary re-keying of data was finally eliminated several years ago.

The screenshot shows a web form titled "Course Resources Online Submission". At the top, it says "Any queries please contact your Faculty Liaison Librarian." and "All fields in **bold** must have entries before submitting request." Below this is a section titled "Information for academic staff on Course Resources Online." which contains several text input fields: "Course Name:", "Course Code:", "Lecturer's Name:", "Lecturer's Email Address:", and "Lecturer's Phone Number:". There are also checkboxes for "Term material required for:" (Term 1, Term 2, Term 3) and a list of academic disciplines for "Librarian:" (Arts, Business, Education, Health, Chemistry, Biology, Engineering, Informatics and Communication). Further down, there are fields for "Library call no. (if known)", "Item Citation", and "Additional Information". At the bottom, there are two buttons: "Send request" and "Clear form".

Course Resources Online Submission

Any queries please contact your Faculty Liaison Librarian.

All fields in **bold** must have entries before submitting request.

Information for academic staff on Course Resources Online.

Course Name:

Course Code:

Lecturer's Name:

Lecturer's Email Address:

Lecturer's Phone Number:

Term material required for: ☐ Term 1 ☐ Term 2 ☐ Term 3

Librarian: ☐ Arts ☐ Business ☐ Education ☐ Health ☐ Chemistry ☐ Biology ☐ Engineering ☐ Informatics and Communication

Library call no. (if known):

Item Citation:

Additional Information:

Figure 1 – CRO Online submission form

The email form is now received, reviewed and if found to not be a duplicate request, automatically loaded into the MetaCat Course Resources Online project where the data pre-populates the matching data fields.

MetaCAT Course Resources Online

Record ID # CRO422

Next Record >> Submit Reset Form

Record ID #: CRO422

Course code: MGMT20125 [CQU Course Index](#)

Course name(s): Leadership and Governance [CQU Course Index](#)

Lecturer's name (Surname first): Murphy, Christine [CQU Telephone Directory](#)

Lecturer's email address: c.murphy@cqu.edu.au

University Term material req'd: ☒ Term 1 ☐ Term 2 ☐ Term 3

Date CRO record created: Jan05

Date CRO record modified: N/A

Liaison Librarian: Business [Reference Services Staff](#)

File is: 174k

CRO www address: <http://library-resources.cqu.edu.au/cro/protected/mgmt20125/mgt>

Author of article or book chapter: Colley, John L.

Title of article or book chapter: Capitalism, free enterprise, and the corporation

Citation of book or journal: Corporate governance / John L. Colley, Jr. ... [et al.], pp. 1-12

Publication Details (if known): New York: McGraw-Hill, c2003

Additional Author (1): Doyle, J. L.

Additional Author (2): Logan, G. W.

Additional Course code (1): [CQU Course Index](#)

CRO www address:

TOC Information:

Incidental Artwork(s): ☐ ill

No. of pages scanned: 12

Delete record from catalogue?: ☐ Delete

TOC www address:

Technical www address:

Licence Audit: ☐ CAL2008/9 ☐ Music ☐ Past-Exams ☐ Screenrights

Additional Course code (5): [CQU Course Index](#)

Additional Course code (6): [CQU Course Index](#)

Additional Course code (7): [CQU Course Index](#)

Additional Course code (8): [CQU Course Index](#)

Additional Course code (9): [CQU Course Index](#)

Additional Course code (10): [CQU Course Index](#)

Additional Course code (11): [CQU Course Index](#)

Non-print format file: Choose

Streaming TOC www address:

Running time:

Next Record >> Submit Reset Form

Figure 2 – CRO web form

Additional information such as file size, number of scanned pages, whether there are incidental artworks etc. is then recorded by Library CRO staff as required.

The information associated with the Call Number, Notes, Access and Technical Details MARC tags are generic to all CRO catalogue records and are defined in the MARC configuration file developed for the project.

ADD IMAGE

Any new and changed records are automatically ftp'ed to the catalogue database at 10am, 1pm and 4pm every week day. Library staff can also manually upload records if a CRO is urgently required.

BE WHAT YOU WANT TO BE

Library Catalogue

CQUniversity AUSTRALIA

New Catalogue Search View Marked Records Library Home CQUniversity Home Contacts Forms MyCQU

Complete Record

Complete Record | Librarian's Record

You searched - Anywhere: cro422
View Online Here

Call Number	Full-text article. http://library-resources.cqu.edu.au/cro/protected/mgmt20125/mgmt20125_cro422.pdf
Author	(COURSE RESOURCES ONLINE)
Title	Colley, John L.
Publisher Details	Capitalism, free enterprise, and the corporation [electronic resource]
Physical Description	New York : McGraw-Hill, c2003
Notes	12 p.
Source	Citations are as provided by the lecturer for this course
Access Details	IN: Corporate governance / John L. Colley, Jr. ... [et al.], pp. 1-12
Access Details	This material is available to CQU staff and students only
Target Audience	When prompted for user name and password, remote users should enter their student number and password (a rolment PIN). Staff should enter their library barcode number twice. No password is required within the University network.
Technical Details	MGMT20125 Central Queensland University. Subject/Course code(s)
Technical Details	File is 174 k (Files larger than 1000 k may be slow to download outside the University network)
Other Author	Adobe Acrobat is required to read these files and is available from http://www.adobe.com
Other Author	Doyle, J. L.
Other Author	Logan, G. W.

Save Marked Records

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[Contact Library Library Staff Only Copyright Disclaimer](#)
CQUniversity CRICOS Provider Codes: QLD - 00219C, NSW - 01315F, VIC - 01624D

Figure 3 –CRO Complete record catalogue display

Via Appia - Copyright Agency Limited (CAL) Electronic Use System (EUS) Audit

In 2004 the University was audited by the Copyright Agency Limited for the first time and a simple matching of data fields in, and the addition of new audit reporting requirements (eg. incidental art works) to the MetaCat CRO form meant that the Library was able to provide the relevant EUS data for the University's registered online communications with minimal stress, workflow impact and re-keying through the extract to .csv file functionality of MetaCat.

OpenURL link resolver

The Library's new information management system also offered the Library the capability to implement OpenURL searching of the catalogue at a collection browsing or specific author, subject, bibliographic or item level.

This capability has been exploited extensively by CQUniversity Library to make information about library, and more recently University resources available in a streamlined manner and through web sites and interfaces outside the Library's online presence.

To enable OpenURL searching to work effectively at a collection browsing level we have created a number of unique institutional 690 subject headings which allow us to restrict searching to specific collections of resources eg. Course Resources Online and Lifelong Learning Conference papers to mention only a few.

Via Nomentana - Course Resources Online Index page

With Course Resources Online data moving to the catalogue, the need for the CRO Index web page (<http://content.cqu.edu.au/FCWViewer/view.do?page=7076#browse>) was revisited, with a view to discontinuing it as it was time-consuming and labour intensive to maintain and in fact duplicating the information which was now available through the catalogue. However, upon surveying academic and library

staff it was found that this page was still a major access point for Course Resources Online and consequently needed to be retained. So, how to do this without re-keying data and/or duplicating information unnecessarily? OpenURLs to the rescue.

The CRO Index page now only comprises the course code and name, as illustrated below, with the course code hyperlinked to a course-specific OpenURL catalogue search string.

A-B	C	D	E	F-G	H	I-K	L	M	N	O	P-Q	R-S	T-Z
Course Code Course Name													
ACCT19082 Theory of Accounting													
ACCT19083 Corporate Governance and Ethics													
ACCT20047 Strategic Cost Management													
ACCT20052 Issues in Financial Accounting													
ACCT20053 Cost and Management Accounting													
ACCT29083 Theory of Accounting													
ALG2008 Academic Leadership Group													
ARTS19011 Advanced Social Theory													
ARTS19015 History Method													
BMED11001 Introduction to Biomedical Science													
BMED19003 Clinical Biochemistry													
BMED19005 Immunology													
BMED19007 Forensic Science													
BMED19010 Macromolecules and Cell Function													
BMED19011 Cellular Metabolism													

Figure 4 – CRO Index Course Code table

In the case of CROs this search string comprises our institution-specific 690 CRO collection subject tag and a course code keyword search eg. <http://library.cqu.edu.au/cgi-bin/openurl/provider.pl?subject = CRO &keyword= acct19082>

New Catalogue Search
View Marked Records
Library Home
CQUniversity Home
Contacts
Forms
MyCQU

Search Results

Sort by:

☒ Ascending ☐ Descending

Records 1 through 2 of 2

1
Complete Record
Librarian's Record
Mark this record the save (to email, save or print)
☐

View Online Here
Call Number
Author
Title
Publisher Details

Full-text article. http://library-resources.cqu.edu.au/cro/protected/acct19082/acct19082_cro2823.pdf
(COURSE RESOURCES ONLINE)
CCH Australia Limited.
Corporate governance and accountability [electronic resource]
Sydney : CCH Australia, c2003.

2
Complete Record
Librarian's Record
Mark this record the save (to email, save or print)
☐

View Online Here
Call Number
Author
Title
Source

Full-text article. http://library-resources.cqu.edu.au/cro/protected/acct19082/acct19082_cro4555.pdf
(COURSE RESOURCES ONLINE)
Dal Bo, Ernesto.
Capture by threat [electronic resource]
IN: Journal of political economy, v. 111, n.5, 2003, pp. 1123-1154.

Figure 5 – CRO OpenURL course code catalogue search result

All CROs associated with a specific course are then seamlessly retrieved through the catalogue.

Via Appia (Nuova) – MyCQU, CQUniversity's Student Portal

Similarly, OpenURL search strings have been implemented in the University's student portal, MyCQU to provide access to the Course Resources Online relevant to a student's currently enrolled courses.

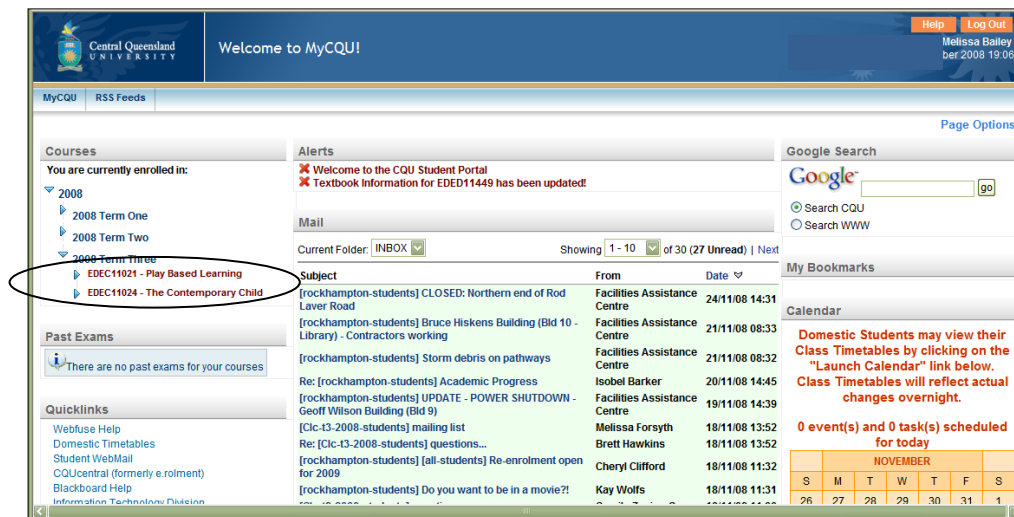


Figure 6 – MyCQU login screen

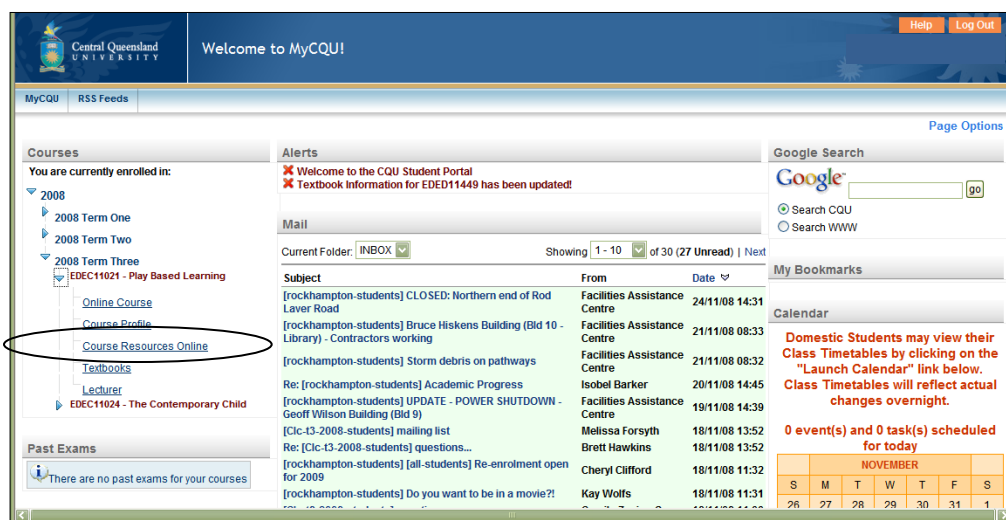


Figure 7 – MyCQU enrolled subject Course Resources Online search option

Via Tuscolana - Lifelong Learning Conferences 2000 – 2008

CQUniversity has been hosting this conference since 2000 and with the advent of its institutional repository, ACQUIRE has catalogued all the conference papers and made them available from the Conference web sites using OpenURLs search string eg. <http://library.cqu.edu.au/cgi-bin/openurl/provider.pl?subject=LLL2008>



Figure 8 – 2008 Lifelong Learning Conference web site

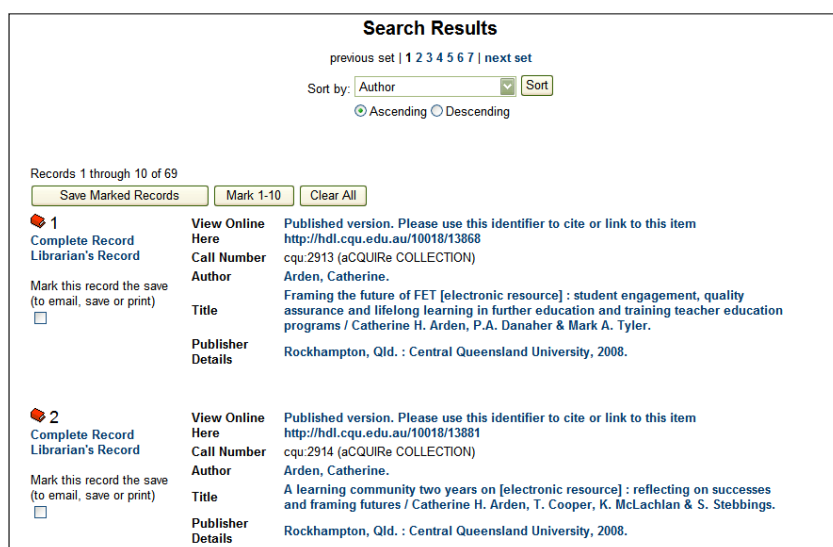


Figure 9 – 2008 Lifelong Learning conference papers search result sorted by Author

Catalogue Search Skins

VTLS' information management system, Virtua also provided us with the option to develop customized search skins. The ability to develop such skins allows libraries to showcase specific collections or build interfaces for specific users eg. children in a public library environment.

In 2005 the Library was approached by Steve Mullins, a lecturer in the University's then School of Humanities asking our advice on how to make accessible a collection of over 700 historical images depicting the Fitzroy River and the coastline of Central Queensland which had been collected and described under the auspices of the Coastal CRC's 'Historical coastlines (community perspectives) - Assessing intergenerational attitudes to environmental change' research project (<http://pandora.nla.gov.au/pan/59863/20060620-0000/www.coastal.crc.org.au/envhist/index-2.html>)

The use of MetaCat to capture the descriptive information and Virtua's search skin functionality immediately came to mind as a way to facilitate this access.

Using MetaCat we created a Historical Coastline Images web form using the fields from the printed forms which had been used to collect information about the various photographs when viewing personal, historical society and museum collections. Staff were then employed from research grant funds to enter the information into this MetaCat project.

Using the data entered and adding some generic information and subject headings a comprehensive catalogue record was created for each of the 700+ images with an associated thumbnail and link to the full image.

View Online Here	
Call Number	Scanned image. http://library-resources.cqu.edu.au/historical_coastlines/images/A_654.5.jpg
Title	A_654.5 (HISTORICAL COASTLINES IMAGES ONLINE)
Publisher Details	[Rockhampton bridges] [electronic resource]
Physical Description	Qld. : Central Queensland University, c.1980
Notes	1 photograph : Black/White.
Notes	Excellent image quality.
Notes	Original version of image held.
Summary	The main subject of the photograph depicts Rockhampton showing three bridges over Fitzroy River. It also includes images of Rockhampton; Fitzroy River; Neville Hewitt Bridge; Fitzroy River; Alexandra Railway Bridge.
Copyright	These images are copyright and reproduction without permission is prohibited. To purchase reproductions contact Steve Mullins, School of Humanities, Central Queensland University, Bruce Highway, Rockhampton Qld 4702 or email s.mullins@cqu.edu.au .
Subject Heading	Queensland, Central -- History -- Photographs
Subject Heading	Capricorn Coast (Qld.) -- History -- Photographs
Other Author	Cooperative Research Centre for Coastal Zone, Estuary and Waterway Management
Other Author	Central Queensland University. School of Humanities.

Figure 10 – Historical Coastline Images catalogue record

Via Flaminia - Historical Coastlines Community Perspective Image Archive

With this collection of images accessible through an institution-specific and unique MARC 690 'HC1 Photographs' subject tag and using VTLS' search skin creation feature, a Coastal CRC Image Archive specific search interface to the library catalogue was developed which bore the same colours and images as the host web site

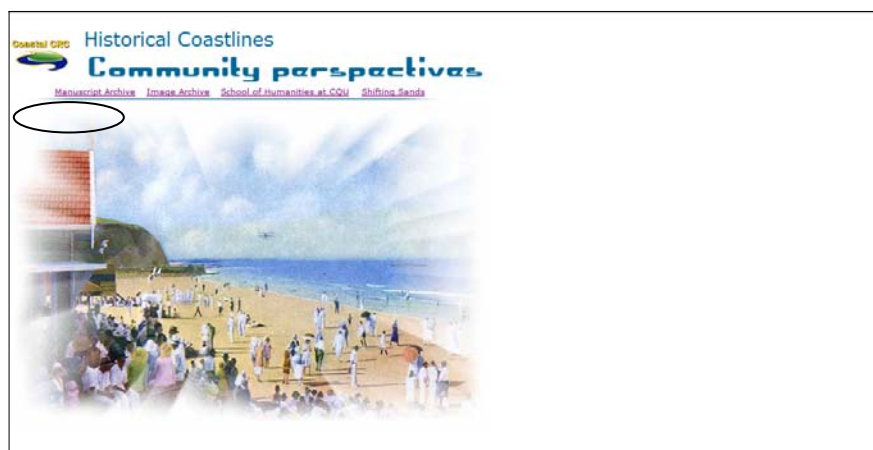


Figure 11 – Coastal CRC Historical Coastlines Community perspectives website

thereby seamlessly integrating into the Coastal CRC website - <http://library.cqu.edu.au/cgi-bin/chameleon?skin=crc>



Figure 12 – Coastal CRC Historical Coastlines Community perspectives Image Archive library catalogue search interface

This branding continues through to the search results screens



Figure 13 – Coastal CRC Historical Coastlines Community Image Archive search results screen

Via Salaria - University Art Collection

In 2006 the Library became custodians of the University's Art Collection and decided to again utilize MetaCat to manipulate, manage and create, if required, the data associated with this collection. We obtained a number of excel databases from a variety of sources - University Relations, the collection's former custodians and the University's Financial Services Division which contained varying information about the University's artworks.

A MetaCat web form was again created capturing the huge array of data associated with each artwork and this project now has the dubious honour of being the largest of our MetaCat projects with over 70 fields (or questions) on the form. After collating, cleansing and consolidating the information from the various excel spreadsheets, the resultant .csv file was imported into the MetaCat Art Collection project form to form the foundation of the new Art Collection database.

As the data was scant and incomplete a full stocktake of the collection was deemed necessary in order to build a comprehensive and complete record of the collection.

As MetaCat forms are web based and require access to the internet to update them it became necessary to extract a subset of the Art Collection data now in MetaCat to build an Access database which could then be loaded on to a laptop and taken on site by our Art Collection Officer to undertake the stocktake and fully and

accurately describe each art work. At the end of the stocktake this Access database data will then be loaded back into the MetaCat Art Collection project.

Similar to the Historical Coastline Image Archive data, MARC records will then be created from this information and loaded into the library's catalogue with associated thumbnail and full images for each art work. It is also planned to create a specific search skin which can then be used by the University to promote and publicise the collection to CQUniversity staff and students as well as the wider community.

For the University Art Collection, the Circulation module of the Library's information management system will also be used to record the actual location of each art work be it in the Library's Store, hanging at a specific campus location or on loan to an external agency. This will occur with the Asset ID tag of each art work doubling as the item barcode.

At the start of this project it was planned that the financial data with accompanying identification details would be extracted from this MetaCat project for transfer to the University's Asset Management system managed by the University's Financial Services Division. However since then, the University's Financial Services Division has reconsidered this approach and acknowledged that the circulation module of the Library's IMS, Virtua is an asset management system in its own right and that the financial data transfer would therefore not be required. The Art Collection is now a one line item in the University's Asset Management system with reference to full details being stored in, and managed by the Library's Information Management system.

This was an unexpected and gratifying development and ??????

Via Prenestina – ACQUIRE, CQUniversity's Institutional Repository

In 2006, when the Library started planning for the implementation and ongoing management of the data associated with its institutional repository, ACQUIRE the Library again decided to continue with its strategy to store and manage data through its Library Information Management system. This approach has also allowed the Library to utilize the cataloguing module's authority control functionality for name and subject verification and standardization of repository data.

As part of the repository's implementation the Library, in conjunction with the University's Office of Research moved to an online submission process for the University's annual HERDC research collection using VTLS' VALET self-submission software solution - <http://acquire.cqu.edu.au:8888/cgi-bin/valet/submit.cgi>

BE WHAT YOU WANT TO BE

ACQUIRE Submission Form

[Library Home](#)
[Contacts](#)
[Office of Research](#)
[CQUniversity Home](#)

Australian Government
 Department of Innovation
 Industry, Science and Research
Funded under the ASHER program

australian research
repositories online
to the world

Some works in this repository are licenced
under a [Creative Commons Licence](#)

powered by

Instructions

You are about to begin the submission process for ACQUIRE, CQUniversity's Institutional Repository. You will be asked to attach the file(s) you wish to submit and then provide some information to describe them.

Please attach all relevant files:

- the published version
- the post-print or final version, not in the publisher's format
- any documentation relating to copyright, eg an agreement with a publisher

Note: Mandatory fields are marked with an *.

About the files

Attach file(s)

File description(s)

Original Filename	File size	Description
No Files currently uploaded for this Resource.		

General Resource description

*Is this submission to be considered for the HERDC (formerly DEST) Publication Collection ? ☐ Yes ☐ No

* CQUniversity Research Institute: Multiple codes possible, at least one code required (Click to select)

Institute for Health and Social Sciences (IHSS)
 Intercultural Education Research Institute (IERI)
 Institute for Resource Industries and Sustainable Development (IRISD)
 TBA
 Not a Flagship/Institute

If this research was undertaken through the awarding of a grant, please indicate which grant(s) Multiple codes possible (Click to select)

Category 1 - Australian Competitive Grants (this includes ARC, NHMRC)
 Category 2 - Other Public Sector Grants
 Category 3 - Industry and Other Research Income
 Category 4 - CRC Research Income

*Please indicate one of the following:

* Title:

Subtitle:

* Description/Abstract:

* Year of publication:

* Keyword(s):

[+ Add additional keywords](#)

ANZSRC Type of Activity (ToA) code

*Field of Research (FoR) Group code (formerly RFCD code)

Select for ANZSRC Field of Research (FoR) Group code below

Figure 15 – Component of ACQUIRE online submission form

This ingesting of the submission form data allows us to capture and map this metadata to relevant MARC tags as well as adding generic information and tags to all records eg. collection details.

Complete Record	
Return to the previous: Search Results Screen Go Back	
Complete Record Librarian's Record	
You searched - Anywhere: acquirecollection View Online Here	
Call Number	Published version. Please use this identifier to cite or link to this item. http://hdl.cqu.edu.au/10018/6249
Author	cqu:2 (aCQUIRe COLLECTION)
Title	Becker, Karen. Central Queensland University. Faculty of Arts, Humanities and Education. Unlearning as a lifelong learning strategy [electronic resource] : an important pathway for transitions / Karen Becker and Brian Delahaye.
Publisher Details	Rockhampton, Qld. : Central Queensland University, 2006.
Physical Description	6 p. ;
Keywords	Unlearning -- Change management -- Organisational change.
Summary	Unlearning is of increasing interest to educators and human resource development professionals alike. Whilst recognition of prior learning is widely accepted, it is less likely that development programs acknowledge this prior knowledge as a potential block to the acquisition of new knowledge and behaviours. A paper presented at the 2004 International Lifelong Learning Conference (Windeknecht and Hyland, 2004) proposed a model of unlearning. As a result of subsequent research, the model has been further developed. This paper shows the evolution of the model and presents initial findings from a range of case-study individuals.
Source	IN: Lifelong learning : partners, pathways, and pedagogies : keynote and refereed papers from the 4th International Lifelong Learning Conference, Yeppoon, Central Queensland, Australia, 13-16 June 2006 p. 26-31 6 pages. ISBN: 1921047216.
Source	IN: aCQUIRe [electronic resource] : Central Queensland University Institutional Repository.
Citation	Becker, K. & Delahaye, B. (2006). Unlearning as a lifelong learning strategy: An important pathway for transitions. In D. Orr, F. Nouwens, C. McPherson, R. E. Harreveld, & P. A. Danaher (Eds.), Lifelong learning: partners, pathways, and pedagogies. Keynote and refereed papers from the 4th International Lifelong Learning Conference (pp. 26-31). Rockhampton: Central Queensland University Press. http://hdl.cqu.edu.au/10018/6249 local.
Copyright	Copyright for the Lifelong Learning Conference volume is held by the Lifelong Learning Conference Committee. The authors retain individual copyright of their own papers. Permission received from authors to deposit into aCQUIRe - Central Queensland University Institutional Repository.
Copyright	By submitting a work to aCQUIRe the author(s) grant(s) to Central Queensland University permission to publish the Work under the terms of the Creative Commons Attribution-NonCommercial-NoDerivs Licence. http://creativecommons.org/licenses/by-nc-nd/2.5/ Director, Division of Library Services Central Queensland University. Rights granted to the digital repository through this agreement are entirely non-exclusive. The author is free to publish the Work in its present version or future versions elsewhere.
Subject Heading	350201 Human Resources Management -- Research Fields, Courses and Disciplines (RFCD) classification.
Subject Heading	740401 Vocational education and training -- Socio-economic objective (SEO)
Subject Heading	TBA -- CQU Research Flagship.
Subject Heading	Organizational learning.
Subject Heading	Recognition of prior learning.
Subject Heading	749901 Occupational training -- Socio-economic objective (SEO)
Genre/Form	Conference Paper
Other Author	Delahaye, Brian L., 1946-
Other Author	Central Queensland University. Faculty of Arts, Humanities and Education.
Other Author	Queensland University of Technology.
Other Author	Lifelong Learning Conference (4th : 2006 : Yeppoon, Qld.) [electronic resource].

Figure 16 – ACQUIRE collection record in the catalogue

The MARCedit utility is then used to convert MARCXML to MARC for importing into the catalogue where the data is cleansed as required fully verified against the authority name file and the addition of Library of Congress subject headings. Finished records are then converted back to MARCXML and imported back into the University's repository, ACQUIRE where the Dublin Core record is created.

For the last 2 years the University's HERDC data has been extracted from the library catalogue as a .csv file and sent to the Office of Research for manipulation and submission to DEST.

This year we have added author weighting calculations to the VALET Submission form for the Office of Research's 2008 HERDC submission.

Via Ardeatina – CQUniversity's videostreaming server.

In 2007 discussions started between the Library and the University's Divisions of Information Technology (ITD) and Teaching and Learning Services (DTLS) to provide better access to the valuable online media resources stored in the University's videostreaming server.

At the present time once a seminar or presentation has been recorded and is made available through the University's videostreaming server the only way of accessing it in the future is to keep the email that is sent out announcing the URL of the file. This is obviously not an optimal solution.

Scoping of the project occurred earlier this year and a front-end for the use by ITD's Educational Media Services and Division of Teaching and Learning staff is currently in Phase 1 testing stage. Data being captured at time of request includes

- Title of presentation
- Presenter(s)
- Course code(s) if applicable
- Abstract
- Date and time of presentation

After the recording has been made DTLS or ITD staff will add further information such as

- Length of presentation
- Copyright licence under which recording has been made, if applicable eg. CAL, Screenrights, Music etc.
- File format(s)

Phase 2 of the project planned for Term 1, 2009 will see this data being transferred to the Library with a view to forming a basic MARC record to which will be added further information such as subject headings, nature of presentation (research, course-related etc) prior to being loaded in to the catalogue with a hyperlink to a videostreaming server options page.

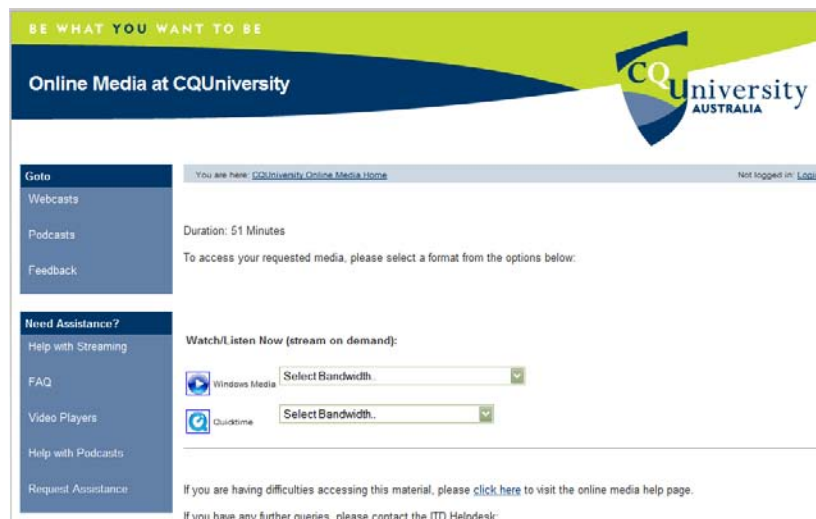


Figure 17 – Videostreaming server options page

It is also planned that video streams of a corporate nature eg. Vice-Chancellor's addresses to staff will be flagged for inclusion on the University's Electronic Document and Records Management System (EDRMS) software solution, TRIM.

Conclusion and where to from here?