



Copyright Infringement

There have been several recent incidents of abuse to University network facilities. We would therefore like to remind everyone of their obligations when using these computing facilities.

Sharing or downloading copyrighted material without the authorisation of the copyright holder is illegal in the United Kingdom. Fee-based services – such as Apple’s iTunes, Napster, Real Networks’ Rhapsody and a few others – have a deal with the creators, copyright holders or trade organizations that represent them (e.g. RIAA, MPAA, etc). Files offered by individuals on peer-to-peer networks or instant messaging, for example, are most unlikely to be covered by such deals, and the download/sharing may be illegal.

A number of copyright owners employ third parties to monitor the Internet for infringements, and actively pursue those perceived to be misusing their intellectual property. **Over the last few months the University has had to respond to a number of these alleged breaches.**

Any activity involving an infringement of copyright on the University network by a member of staff or student may be considered to be a breach of the Computing Regulations, and as such, could result in disciplinary action, which could ultimately lead to removal of access to the University’s computing facilities. In addition, it leaves the perpetrator open to legal action from the copyright owner.

Computing facilities are provided for use by staff in accordance with their normal duties of employment, and by students in connection with their University course.

The Computing Regulations can be viewed at <http://www.ucs.ed.ac.uk/EUCS/reg.html>

Alan Boyd (EUCS)

EASE: making life simpler

Twenty-three thousand people are now using the University’s “reduced sign-on system”, EASE, without trouble, but a few still find difficulty with the concept of what EASE is all about.

An EASE account is like a master-key for a building full of locked rooms, and saves the trouble of having to carry around a large number of keys (or passwords). Once you’re in the building with your master-key, most of the rooms will be open for you.

Not all rooms should necessarily be accessible via a master-key, though: vaults containing particular valuables need special locks. Similarly, you will need a different password for the University’s high-security websites, such as Finance.

Another important aspect of EASE is that it is designed to be a *self-service* process: you choose your own password, and can set things up so that if you forget your password – which is all too easy! – you can get a new one without having to turn to others for help. This is done using “shared secrets,” in which you tell the EASE system a couple of simple facts that only you know, and which no one else could work out – such as the name of your first teacher or first pet.

The EASE system works very well if you take care in setting it up, and will give you convenient access to many University systems, as explained in detail in the major article on page 2 – which is followed by an article about EASE and Athens resources.

Brian Gilmore (EUCS)

[CONTENTS]

Copyright Infringement	1
EASE: making life simpler	1
The G8 Summit	1
EASE: the Edinburgh Authentication Service	2
Athens moving to EASE	2
Beware an Athens ‘scam’	3
Web Content Management System	3
Software news	3
Principal’s e-learning Project Fund	3
The BBC’s Creative Archive	3
University Storage Area Network	4
Opening up The Law	5
Live Plasma	5
AI: In your life right now	5
Conserving the digital heritage	6
First Digital Curation Conference	6
Preserve those bits!	6
Building Open Source Communities	6
e-Procurement Update	7
QCDOC and Blue Gene	7
Freedom of Information Seminar	7
Open-access to Dutch research	7
Library service quality survey	8
Farewell, Alason!	8
Chemistry Library moving	8

The G8 Summit

Edinburgh will be liable to major disruptions during the week of the Gleneagles Summit. EUCS will do its best to maintain services, but requests understanding if problems arise – for example when there are transport difficulties.

Brian Gilmore (EUCS)

EASE: the Edinburgh Authentication Service

EUCS launched the EASE authentication service at the start of the 2004/2005 academic year. EASE is now widely used to allow people to log in to MyEd, ESP, Athens, Staffmail and SMS mail services as well as many others. There are now over 80 separate websites using EASE to authenticate users, though most of the time you would never notice because the authentication is seamless once you have logged in.

EASE now has over 22,500 registered users comprising staff, students, visiting lecturers and alumni, indeed anyone who may need to log in to a centrally-managed IT resource. We hope the remaining 6,500 eligible staff and students will register to use EASE by the start of the next session. To register, go to <https://www.ease.ed.ac.uk/register/>

EASE lets you use one username and password to access many University systems, rather than having to log in separately to each system. Having logged in to EASE, you remain authenticated for eight hours, so throughout a standard working day, you won't need to use a password in order to use many of the systems you need. If you work on for longer than eight hours, EASE will ask you to log in again.

Your single EASE password is held on a service whose sole function is to provide secure authentication. Having just this single function, the EASE service can be made very secure.

The EASE website has recently undergone a complete overhaul. The documentation has been rewritten and redesigned, and the registration process streamlined, all to make it even easier to navigate and use.

The pages have been designed with accessibility in mind, and the site has undergone extensive testing to make sure it complies with the very latest standards and is usable in the widest possible range of web browsers over and above the University's preferred browsers.

In the coming months we hope to continue to make further improvements to the service by incorporating University card holder PINs into the shared secret service to allow a greater choice of means of proving identity if you forget your password: we are aware that sometimes people do forget their secrets as well as their passwords.

With the latest upgrades to the EASE software, it has become even easier for someone to use EASE to protect their own webpages. For users of the **homepages** service, a two-line configuration file is all that is required. People who manage web services provided by the EUCS-managed web-hosting service can request this be set up for them on their own servers by contacting the EUCS web support team. More information about this and other ways EASE can be used can be found on the EASE website at <https://www.ease.ed.ac.uk/>

Graeme Wood (EUCS)

Athens moving to EASE

In Summer 2005 Edinburgh University will be adopting Athens Devolved Authentication (AthensDA) for accessing resources. This means that University staff and students will be able to log in to Athens-authenticated resources using their EASE username and password. When accessing Athens authenticated resources from ESP or MyEd, there will be no need for a separate login (unless otherwise stated).

Accessing Athens authenticated resources in this manner has been available in a pilot form for the past academic year. By adopting AthensDA there will be:

- No more annual re-registration of accounts.
- One less username and password to remember.
- Improved security – a user is authenticated at his/her 'home' organisation; thus the user credentials are not visible to any third party.

Any student or member of staff of the University is eligible for an EASE username and password, and can register at <https://www.ease.ed.ac.uk/register/>

If you have difficulty registering, please contact your computing support team for assistance (see <http://www.ucs.ed.ac.uk/usd/>).

For more information on accessing Athens authenticated resources with EASE, see <http://www.lib.ed.ac.uk/resources/databases/athens.shtml>

Self-registration for personal usernames and passwords ceased on 1st July; existing usernames and passwords will remain valid until 31st October 2005.

If you feel it is essential to keep your personal Athens username and password after this date, please contact us using the enquiry form at <http://www.lib.ed.ac.uk/resources/databases/athensquery.shtml>

Please note that you would only be permitted to have a separate Athens account in certain circumstances:

- Not eligible for an EASE username and password.
- Use a resource that is not AthensDA compliant (e.g. CrossFire, though this will be added soon).
- You have a significant quantity of legacy material (e.g. alerts, searches) in an existing account.

New Terms and Conditions

Please note that Eduserv Athens has recently modified its Terms & Conditions for both institutions and individual users, particularly in relation to misuse of accounts. The full set is available at http://www.athensams.net/terms_and_conditions.html

As of 12th July 2005 users will be required to click an 'accept' link for the Terms & Conditions before being permitted to access Athens authenticated resources.

Caroline Stirling (EUL)

Beware an Athens 'scam'

Eduserv Athens has alerted us to a 'scam' currently in progress. A message purporting to come from support@athens.ac.uk asks individuals to check their details by viewing an attachment – and the attachment contains a virus.

Eduserv Athens does not communicate with individual users in this way, only with Athens administrators, and the Service Desk email address has never been support@athens.ac.uk. If you get this message, delete it without opening it!

Please remember never to share your Athens account details with anyone: doing this would jeopardise the University's access to Athens authenticated resources.

Caroline Stirling (EUL)

Web Content Management System progress

Progress on implementing the Polopoly web content management system has been continuing over the past few months. The first websites, including the School of Divinity's, are now being migrated into the system, and should go live around the beginning of July.

An end-user training course is now available, at present on demand only, but it is planned to schedule courses for later in the year.

A new minor release of Polopoly will be installed in July, to enable some new system features, and we have built functions to display a news page or panel of items by date, and to generate an RSS feed.

The demonstration website mentioned in the April issue of *BITs* is still available, and provides a simple introduction to the system. If you would like access to it, please email wcms.support@ed.ac.uk.

Charlotte Moon (EUCS)

Software news

Clustan

The University has had a site licence for Clustan statistical software for many years. Usage has never been great, and has now apparently almost ceased.

We are therefore unlikely to renew our licence at the end of this session. Clustan will be removed from **holyrood** and distribution of Clustan Graphics for Windows will cease at that time. If you wish the agreement to continue, please contact us by 5th September.

Mathematica

We now have a site licence for Mathematica, under which copies can be 'rented' for an annual fee.

The alternative would be to buy copies outright, and good discounts are available for large orders. We hope to place such a bulk order for the University in early September; if you are interested please contact EUCS.Software.Service@ed.ac.uk.

Glim and Genstat

Reminder: as announced in the April issue of *BITs*, the site licences for Glim and Genstat will lapse at the end of July, and they will be removed from **holyrood** after that.

Frances Provan (EUCS)

Principal's e-learning Project Fund

The e-learning Steering Group met in May to allocate funds to the 2005/06 round of e-learning projects. The quality of bids from across the University was once again exceptionally high. The list of confirmed funded projects for 2005/06, and previous years, is on the main e-learning website at <http://www.e-learning.ed.ac.uk/>

Jo Hamill (Information Services)

The BBC's Creative Archive

The Creative Archive is a BBC-led initiative to provide access to audio and video archives to allow the British public to find, share, watch, listen to and re-use the archive in their own creations – so "you can rip, mix and share the BBC".

A pilot project is currently under way to test the concept behind the Creative Archive with the audience, the marketplace and policy makers.

Users of content must cite the originator, allow others to use their work, not benefit commercially, and limit use to the UK.

The Creative Archive is at <http://creativearchive.bbc.co.uk/>

(Editor)



The Local Arrangements Committee for the successful IASSIST/IFDO conference hosted by Edinburgh University Data Library in May 2005.

Stuart Macdonald (EDINA)

Storage Consolidation – the University Storage Area Network

As reported in last month's *BITS*, the University has purchased a Storage Area Network – 'SAN' – for general University use, to complement the existing eDIKT research SAN.

A SAN consolidates the storage used by many services into a single common pool to which each service connects. The major benefits of this approach are:

- any storage held in a larger pool is potentially available to any service which needs it; previously, unused storage could be sitting in isolated pools and could not be used by services which needed it.
- storage becomes more manageable, being operated using a common interface at one location.
- tape backup of services can be consolidated. The EUCS Facility Management team alone runs 11 separate backup services. Consolidation will be a major benefit.

These benefits give cost savings and efficiency gains. The demand for services has been growing faster than staff could provide them, and this consolidation will help restore manageability. In addition this exercise has allowed us to replace Information Services and Management Information Services legacy storage with higher quality hardware managed by RAID controllers (with built-in duplication), which will increase reliability and performance.

New capabilities

The SAN provides new capabilities that the University needs:

Resilience of data

- *Dual attachment of storage and servers.* The SAN is built with no single point of failure. Each piece of storage and each server is connected by two independent paths – so if one fails, the service will continue unaffected while the broken path is repaired.
- *Redundant Arrays of Independent Disks.* The disks use a data-resilient method of storage called 'hardware RAID' which means that the failure of any single disk within any array will not lead to any loss of data.
- *Backup improvements.* We have achieved a significant upgrade to tape backup facilities and capacity to accommodate the ever-increasing data growth. The upgrade in tape backup speed means that the process of backing up data will reduce the impact on services.

Disaster recovery

The University has suffered from the effects of fire and theft in recent years, which has re-emphasised the importance of planning for the worst. The SAN has been designed with disaster recovery in mind.

- *Dual-site.* We are using a dual-site model in which all the live data is held at a primary site, and a secondary site is used to keep copies of mission-critical data, through replication or the use of snapshots.
- *Tape backup.* The secondary site is where data from the primary site is backed up on to automated magnetic tape libraries. These have been sized so that all backed-up data can be kept online in these libraries, and therefore be accessible at all times.
- *Replication of data.* Data is replicated between remote sites. This means that if there is a fault at the primary site, the complete and up-to-date version of the data at the secondary site can be used instead.
- *Disaster recovery services.* As the secondary site holds copies of key data, service providers can locate development systems at the secondary site which can be brought into service in a disaster, using the data that has been replicated at that site.
- *Secondary backup.* Should a disaster befall the secondary site rather than the primary site, there is a small amount of backup capacity at the primary site which can be brought into service to back up the most mission-critical services until the secondary site can be brought back into service.

The immediate focus of the project has been to address the storage requirements of the College servers and the services in IS and MIS. During the planning process we wanted to ensure that the solution was open enough to be of more general use for all data providers in the University. To this end, storage space on the SAN can be purchased, the tape backup infrastructure can be utilised, and there is a capability to add cheaper serial ATA disk storage at a later date. A paper proposing the capital and recurrent costs of these options will be presented to the next meeting of the IT Committee.

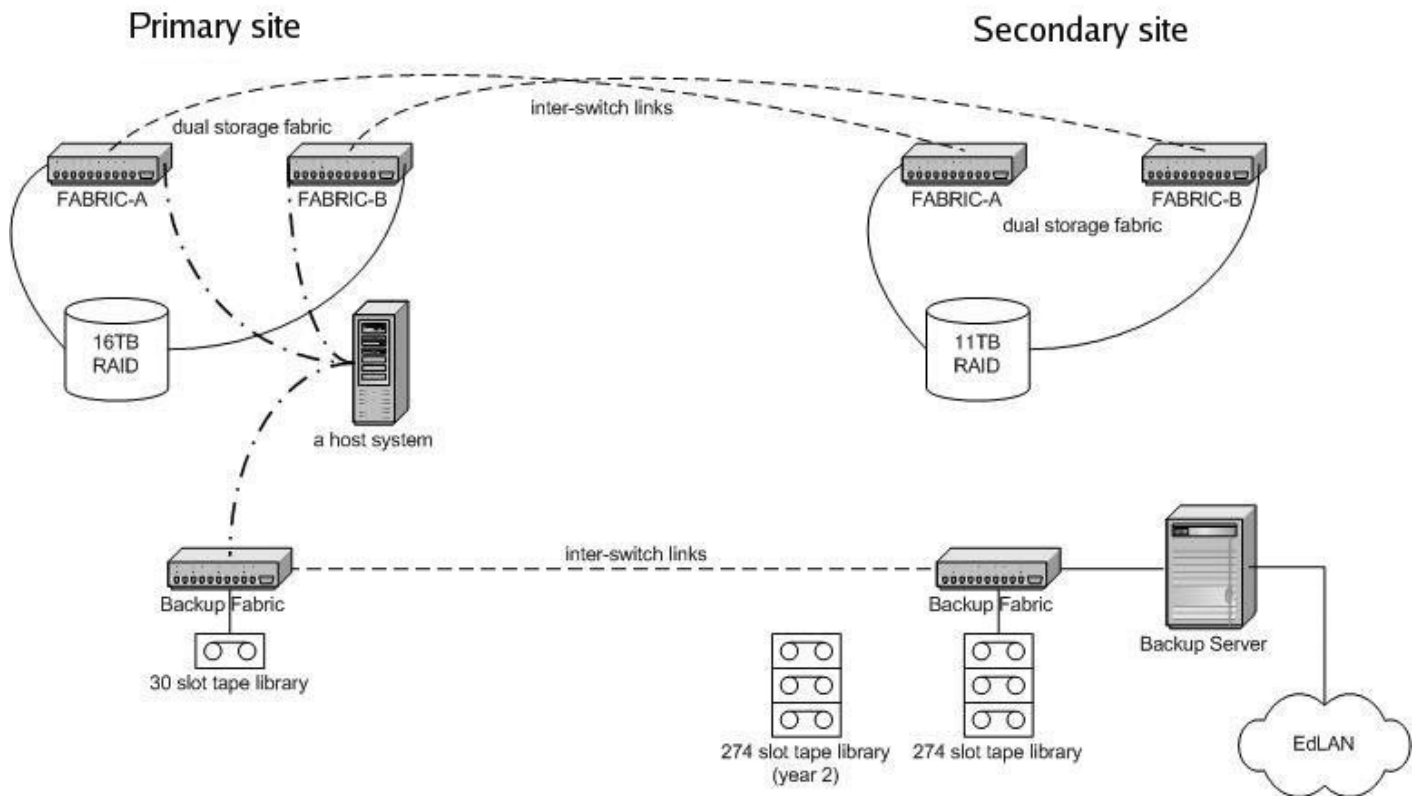
Details of the SAN project are at <http://www.ucs.ed.ac.uk/projects/storage/>

If you would like to discuss your own School's or Unit's requirements please contact

Keith.Farvis@ed.ac.uk.

Scott Currie (EUCS)

University of Edinburgh SAN



Opening up The Law

JISC and BAILII, the British and Irish Legal Information Institute, have announced the *Open Law* project. Over 40,000 pages of core legal judgements and law reports will be made freely and openly available electronically for the first time.

Case reports and legislation are central in teaching law and developing legal skills. *Open Law* will include around 200 of the most cited judgements in each of the core areas of the law course syllabus. Non-core areas will also be covered to help with legal issues on non-law courses such as accounting and business, planning, environmental management, and social work.

Full details of *Open Law* are at http://www.jisc.ac.uk/index.cfm?name=news_unleashing

Philip Leith (Queens, Belfast)

Live Plasma

By now we're all used to the look and feel of conventional search engines such as Google, which are normally text-based. But there are other ways of presenting information.

'Live Plasma' is a new visual search engine that maps out connections among films, directors, actors, musicians – based on the affinity of taste. If 'Casablanca' is one of your favourite films, for example, then you would be recommended to see '12 Angry Men' and 'To Kill A Mockingbird'. The criteria for strong or weak connections remain somewhat obscure, but if you would like to explore this cosmos of entertainment, you can find it at <http://www.liveplasma.com/>

Caroline Porteous (JISC RSC)

AI: In your life right now

This is the title of a meeting, aimed at the general public, to present current trends, applications and ideas in Artificial Intelligence, and to stimulate a lively debate.

The meeting will be chaired by the University's Prof Alan Bundy, and will include talks by Prof Aaron Sloman (Birmingham) and Prof Wolfgang Wahlster (DFKI and Saarland University).

The free event will take place at the headquarters of the Royal Society of Edinburgh, starting at 6pm on Friday 5th August, and followed by refreshments. There is further information at <http://www.aisb.org.uk/publicunderstanding/rse05/>

Tickets are required, and can be booked at <http://www.royalsoced.org.uk/events/index.htm#intelligence>

Peter King (BCS)

Conserving the digital heritage

Academic work throughout the UK is generating vast amounts of digital data, and ever more resources are being made available in electronic form.

We are investing more and more in digitisation, and in digital content and information, but the documentary heritage created in digital form is at risk, by technology obsolescence and by the fragility of digital media.

Working with other practitioners, the Digital Curation Centre – DCC – will help UK institutions to store, manage and preserve these data to ensure their enhancement and continuing long-term use. The Centre, which is funded by JISC and EPSRC, is intended to be a national focus for research into curation issues and to promote expertise and good practice, both national and international, for the management of all research outputs in digital format.

The DCC has just launched its website, to highlight news, events, resources and research, at <http://www.dcc.ac.uk/>

You might also be interested in an online DCC Forum, developed by NeSC staff, through which people can discuss any aspect of preserving our digital heritage. You can find out about this and how to become a registered Associate of the DCC Network at <http://forum.dcc.ac.uk/>

If you would like more information you can contact the DCC Helpdesk (tel 511239, email helpdesk@dcc.ac.uk).

Graeme Pow (DCC)

International Digital Curation Conference

Registration is now open for the first International Digital Curation Conference, which takes place in Bath on 29–30 September 2005.

This conference will provide an important forum, helping to raise awareness of the key issues in digital curation and encouraging active participation and feedback from all stakeholder communities. The programme, which includes keynote speakers, will provide an overview of the work of the DCC and an opportunity via a Symposium to discuss the concepts and principles of digital curation. A series of parallel sessions will look in more detail at specific topics, including Socio-Legal Issues, Format Registries, Storage Media, Training & Staff Development and Certification.

The Conference will be chaired by Chris Rusbridge, DCC Director, with contributions from Prof Peter Buneman (DCC Research Director), Dr David Giarretta, Dr Liz Lyon, and Prof Seamus Ross, all of the DCC directorate.

There is full information about the conference, and a facility for online registration, on its website at <http://www.ukoln.ac.uk/events/dcc-2005/>

Joy Davidson (Erpanet)

Preserve those bits before you lose them!

Digital information is pretty resilient stuff, as anyone who has followed the progression from vinyl to CD to iPod will know. Not only is the information ‘robust’, but the impact of compression technologies such as JPEG and MPEG mean that ‘losing’ information is largely a matter of choice rather than accident.

Largely – but not totally.

Digital material is being renewed at an increasing rate, and a surprising amount of digital information is being lost through failure to preserve and manage material systematically. This topic is tackled in the current issue of the online magazine *Ariadne*, which has three articles on digital preservation and e-archiving, available at <http://www.ariadne.ac.uk/issue43/>

The UK Web Archive

The UK Web Archive aims to be “the first systematic attempt to create an archive of social, historic and culturally significant web-based material from the UK domain,” and it has recently acquired a new searchable gateway. The Archive is at <http://www.webarchive.org.uk/>

Caroline Porteous

(JISC Regional Support Centre)

Building Open Source Communities

Edinburgh, 4th July 2005

What characterises an open source software development community? How does the licence choice affect the community that may arise? Why is the Moodle community growing so quickly? These questions and more will be addressed at the 4th OSS Watch conference on 4th July 2005, in Edinburgh. The programme includes:

- *What is an open source software community?*
Sebastian Rahtz, OSS Watch
- *The impact of licence choice on community*
Jim Farmer, Sakai and uPortal
- *Co-located agile development*
Helen Sharp and Hugh Robinson, Open University
- *Serving Maths*
Gustav Delius, University of York
- *Life and times in the Apache community*
Andrew Savory, Luminas
- *MoodleMoot*

Sean Keogh, Oxford Institute of Legal Practice
Bill Olivier, Development Director (Systems and Technology) at JISC, will start proceedings and engage with delegates throughout the day. Attendance at the conference is free, but you need to register, at <http://www.oss-watch.ac.uk/events/2005-07-04/>

Randy Metcalfe (OSS Watch)

e-Procurement Update

E-tendering

The University Procurement Office has been using a new e-tendering and document management system for just over six months. The system is called In-Tend, supplied by Infovision; it is browser-based. In these six months the department has used the system for over 30 Procurement Projects.

Some statistics on its usage:

- 31 projects
- 234 registered suppliers
- 253 responses from suppliers

These numbers increase on a weekly basis. By tendering electronically we are reducing the administration costs to the department, such as printing and postage, as well as saving staff time – both in our team and in the academic and support units we are helping with the projects. An earlier study indicated that the University could save two person-months of time using e-tendering, which is just as well, as the Procurement Office workload has doubled in the last few years.

Additionally, the opening of electronic tenders takes minutes, rather than the hours of opening and signing paper copies. Another big advantage of this system is that, as it is web-based, it can be accessed from any computer anywhere in the world. One of our projects involves 11 other HEIs, whose staff can access the documentation remotely, within minutes of the tender opening.

With the new EU Procurement Directives becoming law at the end of this year, we will be able to reduce the tender response time for any projects which we put through this system, giving quicker turnaround time for our customers.

For further details, please contact george.sked@ed.ac.uk.

George Sked (Procurement)

QCDOC and Blue Gene

The Next Generation of HPC

Architecture is the theme of an EPCC workshop taking place at the National e-Science Centre in South College Street on 4–6 October 2005.

The first IBM e-Server Blue Gene system in Europe was delivered to EPCC in December 2004. The University has also recently installed a QCDOC machine, providing one of the world's most powerful systems dedicated to the numerical investigation of Quantum Chromodynamics. The Blue Gene and QCDOC architectures offer a significant breakthrough in supercomputing technology, providing unprecedented computing performance at very low power consumption, floor space and cost.

With the growing popularity of these systems across a wide range of applications, a workshop investigating their full potential is highly topical. As the only centre in the world to host both Blue Gene and QCDOC systems, the University is the ideal location for such a workshop.

The programme comprises a series of presentations from experts, users, developers and programmers, including the following confirmed speakers:

- Steve Louis, Lawrence Livermore National Lab
- Katherine Riley, Argonne National Lab
- Gyan Bhanot, IBM
- Eric Kronstadt, IBM
- Kjeld van der Schaaf, ASTRON
- Arthur Trew, University of Edinburgh
- Ed Jedlicka, Argonne National Lab

Registration for this event is free and should be done online, at <http://www.epcc.ed.ac.uk/BGworkshop/>

Lee Callaghan (NeSC)

Freedom of Information Seminar

There is to be a seminar on the technological implications of Freedom of Information – response and development – at the University of St Andrews on 9th September.

The amount of legislation governing how institutions manage the information they hold is growing fast. In particular, recent Freedom of Information legislation imposes obligations on universities and colleges to be able to identify, locate, retrieve and supply information to enquirers within a very short timeframe. This conference will examine to what extent technology can supply answers.

For further information, please go to <http://www.ucisa.ac.uk/groups/cisg/misgevents/FOISeminar>

Sue Fells (UCISA)

Open-access to Dutch research

A website giving access to academic research in the Netherlands is struggling to meet demand: the system had to be expanded to cope with the load. The English version of the site is at <http://www.darenet.nl/en/page/language.view/home>

The Digital Academic Repositories (DARE) started last year as a pilot project of all Dutch universities, the National Library of the Netherlands and other organisations. It contains 47,000 academic articles and other digital resources, including bibliographic information, full text material, and audio and video files.

Scotland has a similar aspiration through its Declaration on Open Access, as described in April's *BITs*. The University's own Edinburgh Research Archive is at <http://www.era.lib.ed.ac.uk/>

(Editor)

Library service quality survey

Earlier this year, the Library participated in the LibQUAL+ survey to define and measure service quality. Some 200 institutions in Europe, North America and Australia took part in the survey which has been running for the past five years. Staff, postgraduates and undergraduates were selected at random and invited to complete a web-based survey.

Around 450 responses, representing 17% of the sample, were received and the results were collated by the LibQUAL+ team which is based in the US. The Library has now received the results, for each of the three user categories and for each of the Colleges. A summary is available at <http://www.lib.ed.ac.uk/about/libcom/PapersJun05/libqual05.html>

The results have been presented to the University Library Committee and will be discussed at future meetings of the College Library Committees.

Immediate steps that the Library is taking, as a result of the survey's outcomes, include:

- Re-instating the alphabetical list of e-journals.
- Arranging postgraduate 'forums' in each College later in the year.
- Holding meetings to discuss ways of enhancing liaison with Colleges and Schools.
- Establishing groups to investigate difficulties of finding print and electronic resources.
- Analysing the 200 free-text comments made by respondents.
- Examining the results from comparator institutions.

The Library thanks everyone who completed the survey. Anyone wishing more information is invited to contact the LibQUAL+ coordinator, Richard Battersby, in the Library (email R.Battersby@ed.ac.uk).

Richard Battersby (EUL)

Farewell, Alason!



With the retirement of Alason Roberts in June, the Library lost one of its most experienced senior managers, one who had a particular aptitude for both bibliographic services and personnel issues.

Alason joined the Library in 1983, becoming Undergraduate Services Librarian and then Arts Librarian as the Library implemented its new liaison strategy. By 1991 she was the Bibliographic Services Librarian, and a member of Round Table, the Library's senior management team.

Alason's major contributions to the University include fostering the Library's first strategy, nurturing the Moray House integration, helping to procure the GEAC and Voyager systems and promoting online theses.

Alason's greatest achievements were almost certainly with people rather than systems, and she will long be remembered with affection by the countless people she helped both in advancing their professional careers and in coping with the little ups and downs of life. These 'people skills' will be very hard to replace.

We all wish Alason a long and happy retirement.

Sheila Cannell (EUL)

Chemistry Library moving

The collection previously housed in the Chemistry Library is being transferred to the Darwin Library. This has been a joint decision by the Library and the School of Chemistry, and is possible because the Library received funding to install a large amount of (open access) mobile shelving on the lower floor of the Darwin Library.

Chemistry Collection books have been integrated with the Darwin Library books on the upper (entrance) level. For book locations, please see the library catalogue. The Reference Collection moves in July. So do the journals – to the lower floor to be integrated with the collection there.

For further details, please see <http://www.lib.ed.ac.uk/resbysub/chemdarwinmove.shtml>

Rowena Stewart (EUL)

EDINBURGH BITS

Editor:

Nick Stroud, Computing Services.

Published by:

Computing Services
The University of Edinburgh
for the Edinburgh IT community.

Contributions:

Email: BITS@ed.ac.uk
Telephone: 0131 650 3345

Distribution queries:

BITS is distributed through School offices; secretaries please notify changes in requirements to Carla Zaccardelli:
Email: C.Zaccardelli@ed.ac.uk
Telephone: 0131 650 4999

Printed by:

University of Edinburgh Printing Services
<http://www.pps.ed.ac.uk/about/printing/>

BITS on the Web:

<http://www.ucs.ed.ac.uk/bits/>

BITS RSS feed:

<http://www.ucs.ed.ac.uk/bits/bits.rss>

Some acronyms explained:

<http://www.ucs.ed.ac.uk/ucsinfo/acronyms.html>

NB: if you fail to access a URL shown in *BITS*, please email BITS@ed.ac.uk.

Contributions to *BITS* are welcomed.

Copy deadline for August *BITS*:

Friday 15th July