

Electricity bill set to soar

You can help to contain it!

In 2003 the University negotiated a very favourable contract for its electricity supplies, and our electric bill for the past year is only £2.6m. This contract has come to an end, so from 1st April we must pay a commercial rate for our electricity – at the very time that all energy costs are soaring. The bill for 2006–2007 is estimated to be £3.4m, and after that, £6m – more than double this year’s bill. The extra money to pay this will potentially have an impact on funding for teaching and research.

This is not the only reason to reduce our electricity consumption. The University’s demand for energy puts around 37,500 tons of Carbon Dioxide into the atmosphere every year. Few now doubt the reality of climate change, and the University community needs to do all we can to minimise our harmful impact on the environment.

Energy Awareness Campaign: Save It!

Three years ago the University Court adopted a target of reducing Carbon Dioxide emissions by 40% before 2010. We have been making good progress, and have already achieved a 30% reduction using technological interventions;



more savings are on the way, for example through the Combined Heat and Power project serving buildings around George Square.

Technology alone will not deliver the necessary reduction, however ... Action is needed by all staff and students, to use less electricity. Please help by switching off your computer every night and your monitor when you leave your desk. Over 4,000 computers were left on over the Christmas break (see <http://skiddaw.ucs.ed.ac.uk/cgi-bin/portcgi?99?liveports?8?8?liveports>). Was yours one?

The University has launched a five-year Energy Awareness Campaign – with help from the National Industrial Fuel Efficiency Service (NIFES) – to motivate and promote change. Each College and Support Group has selected one of its buildings for a pilot project. For Information Services this is the all-electric Main Library Building – for which the projected electricity bill next year is over £500,000.

Campaign news will appear regularly, led from the Energy & Sustainability website at <http://www.eso.ed.ac.uk/>

This is a good time to recall Edmund Burke’s counsel that “Nobody made a greater mistake than he who did nothing because he could do only a little.”

David Somervell

(Energy & Sustainability Manager)

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Important information for Internet Explorer users:

see page 8

Some ways in which you can help reduce the University's energy bills

(These are the sorts of things we might all do at home.)

1. Switch lights off when out of the room – even for five minutes – and turn off all lights, including common area and washroom lights, at the end of the day. Modern lights are manufactured to cope with regular switching on and off.
2. Turn your computer and related devices off when away from your desk for any significant period of time, and shared printers off at night. Even in 'standby' mode, these devices consume significant amounts of power.
3. Seek out 'standby' red lights, and switch off equipment when it is not needed.
4. If you are last to leave a building or corridor or room (including lecture and seminar rooms), make sure that lights are off and doors and windows closed to keep heat in.
5. Wherever possible when buying major items of equipment, select those with lower energy costs (the Procurement Office will be pleased to advise on this), and review working practices to see whether energy or water consumption can be reduced in teaching and research activities.
6. Report faulty lighting, over-heating or leaking taps to the Estates Repairline on 502494, or via <http://www.estates.ed.ac.uk/FaultReport/>



A pilot project with a simple 'switch off' message achieved a 15% reduction in power consumption in a six-month pilot exercise last year in Charles Stewart House, Chambers Street. Repeated across the University, this would produce considerable savings, lowering the sum that has to be deflected from core activities.

Please do all you can to help us to achieve this aim.

As a further incentive to reduce our power consumption, it is planned to devolve charges for gas and electricity to cost centres within Colleges and Support Groups from academic year 2008–2009 onwards.

Thank you for your help with this important challenge.

Nigel Paul (Director, Corporate Services)

A new eDiary for the University

The current Microsoft Exchange-based eDiary system is heavily used and well liked by many staff. Despite this success, there have been problems extending the use of this service beyond its existing user community. Microsoft Exchange works well with Microsoft Windows-based computers, but the service is much less easy to use from Macintosh and Unix systems, and there have been some interoperability problems.

There is strong interest from students in an eDiary service, for example to manage schedules for teaching and exams, and it is vitally important for the University to ensure that facilities for our students do not fall behind those of comparable institutions. Unfortunately the current eDiary requires an upgrade even to cope with its present load, and does not provide a good basis for extending an eDiary service to students.

Therefore, after considerable consultation and evaluation, EUCS (in close collaboration with MIS) proposed to the University's IT Committee that a new eDiary Service be procured. In February the IT Committee approved the selection of Oracle Calendar, and this will be the basis of the single, University-wide eDiary service which will be introduced over the next 18 months.

The new Oracle Calendar service will be made available for all students from the start of the next Semester. It may also be feasible for the new service to be made available to staff who do not currently use the Exchange eDiary, and the project team is keen to explore this possibility. Details of the transition of existing eDiary users to the Oracle eDiary system are yet to be worked out. However, if you are currently using Microsoft Outlook to access the eDiary service, please be reassured that you will continue to be able to do so with the new system. You will not have to learn how to use another new tool! Diary privacy, a concern raised by a number of staff, should also not be an issue. For the new service, staff diaries will not be visible to students, and *vice versa*. Student diaries will be visible only to the student concerned, although the diary owner can choose to change this.

It will take some time and much effort to migrate the University to the new Oracle Calendar service. We are confident however that the result will be an integrated, University-wide service which meets the needs of staff and students, making it much easier to work together!

Chris Adie (EUCS)

Bryan MacGregor (MIS)

University Website Redevelopment Project

Dawn Ellis is the University's new Head of Web Development, and she is now building up her development team in CPA. This will include the current CPA web team headed by Bryan Martin, Charlotte Moon (seconded from EUCS) and Rose Dewar (seconded from MIS), backed up by programming experts in EUCS and MIS. Two new web developers will join the Project shortly.

Dawn is now looking at the consultation documentation, updating functional and content requirements, and conducting a University-wide content audit. An Advisory Board will be formed and Board members will be expected to draw upon expertise from networks of colleagues throughout the University to help create a successful website.

If you'd like to discuss any issues regarding the development of the University Website, or contribute your views, please contact Dawn (tel 506379, email dawn.ellis@ed.ac.uk).

The project's website is at <http://www.projects.ed.ac.uk/UWS/>

Ian Conn (CPA)

Dawn Ellis was most recently Director of New Media and Video at Oxford University Press, creating award-winning e-learning materials for the teaching of English as a foreign language.

Before that she attained a Linguistics M.A. in Paris, remaining in France to teach English in universities and private language schools. She then helped to set up and run the marketing operation for Heinemann ELT in Paris, before returning to the UK to run the Promotions Department at Heinemann ELT in Oxford – which included the development of an early web presence for the company. Moving up to Head of Marketing and Communications, Dawn developed the first international publisher's portal for teachers of English as a foreign language (<http://www.onestopenglish.com/>).

Dawn then moved to Oxford University Press to set up a development team to deliver English Language learning materials via the web and cd-rom/dvd-rom. She sponsored a website redesign and migration project using a content management system similar to that required by Edinburgh University. During her ten years in Oxford, Dawn was active in the local Women in Publishing group, and was a founder member of OPuS, the Oxford Publishing Society (<http://www.opusnet.co.uk/>).



eProcurement – the University features in computing

Sciquest now has 730 users who order about £0.5M p.a. from 42 laboratory and chemical suppliers' online catalogues. Purchase Order information is fed overnight to Cedar Open Accounts eFinancials system, ready for goods receipt next day. A link to update accounting codes from eFinancials to SciQuest is being developed, to allow researchers to start purchasing as soon as new grants are approved.

We also have 98 users spending up to £100k p.a. from the eFinancials eProcurement module, using Unity marketplace (formerly HEeP) to buy stationery and computer consumables online. More supplier links are promised, as Unity has joined up with IDeA, a local authority marketplace and service provider.

68.46% of University orders are now e-enabled.

These statistics were among the facts given by Karen Bowman, Director of Procurement, in a recent interview with the **computing** newspaper, for a supplement on Cedar Open Accounts. If space permits, the article should mention that the key to the University's success has been the users who take up the systems and find them helpful in their daily work.

eProcurement training is readily available; for more information, contact fisusers@ed.ac.uk.

Goodbye to Graham

Graham Cook, Procurement Business Process Manager, has come to the end of his contract period. He leaves the University in a better state of eProcurement than when he joined us, 18 months ago. As you can see above, we have seen a huge growth in take-up of our eProcurement offerings, giving Schools and Support Units the opportunity to improve their internal processes around requisitioning and purchase orders.

We thank Graham for all his input and wish him every success in the future.

Karen Bowman (Procurement)

EASE and AD passwords aligned

Everyone who is registered to use University computers has two passwords, one for EASE and one for Active Directory, but this can cause problems when people don't know which password to use, or forget a rarely-used one.

EUCS is therefore changing the EASE registration and password-change web pages to allow the two passwords to be synchronised – as approved by the IT Committee's Authentication and Directories Working Party.

With the new system, the default result will be to make the two passwords identical. The intention is to make the EASE password page a 'one stop shop' for changing passwords: in the near future, the same page will have links to change the network access passwords for the dialup and VPN services, and for the web proxy caches, and to ensure that they are explicitly different from the more critical EASE and Active Directory passwords.

Graeme Wood (EUCS)

University Web Search Service: changes

Following feedback from users, the web search service on www.catalogue.ed.ac.uk gets a make-over in April. We will move to a newer version of the Ultraseek search engine and switch to a faster server. There will be better response times, and some changes to the user interface.

Previous releases of Ultraseek took account of the case of letters in the query. In practice this feature was not used, and seemed to cause confusion for some users. The new release will convert all queries to lower case.

With the old version, adding words to a query increased the number of pages found, because pages were reported as matching if they had any one or more of the query words in them. The new release will only return pages containing *all* the query words, so adding terms will, in general, reduce the number of pages found.

We will continue to classify and categorise websites in different 'collections' to facilitate selective searching of the University website. This allows easy searching of the websites in a particular College, for example. However, websites are sometimes created without our being told, and these are ignored by the University search service until we are alerted. In order to get around this, there will be a new catch-all collection containing all the websites that can be found in the University by following links from any other University site.

A new API will be released to allow website administrators to build their own search interfaces. This will allow complete flexibility in how results are displayed on certain sites.

Graham Rule (EUCS)

Staffmail uses the SAN

EUCS has switched the staffmail service over to using the new Storage Area Network – SAN – for backup. This makes very practical use of the University's major investment in this advanced data storage system, and means that EUCS is now able to restore accidentally-deleted mail more rapidly and efficiently than hitherto. Many other services are being moved to the SAN, for unprecedented efficiency and resilience.

Graeme Wood (EUCS)

New Servers for the University's Corporate Applications

Performance and reliability for University business applications are boosted through a £400k investment in new servers

The University's main business applications run on a server infrastructure which is both old and relatively complex. In a deal worth more than £400k, MIS has purchased new equipment to replace the current infrastructure.

The new machines are expected to improve performance by at least five times, in a simplified and more reliable configuration using the University's newly procured storage service – the SAN. Applications will be migrated from old to new equipment over the course of the coming year, with the first scheduled applications from Finance going live in May.

Simon Marsden (MIS)

Improved wireless access

EUCS has introduced a better and more secure method of connecting to the University's Central Wireless Network. This pilot service, provided by SSID *central-wpa*, will run in parallel with the existing service provided by SSID *central*.



The new service provides a more direct connection to EdLAN from the wireless side without the use of gateways, allowing improved scalability for throughput and support for other Internet protocols such as IPv6.

Full details of how to configure your wireless card to use this service are provided at <http://www.ucs.ed.ac.uk/nsd/access/central-wpa.html>

Please note that some wireless cards may require a driver update in order to use this service.

Bill Byers (EUCS)

LOCKSS and CLOCKSS

To Keep Stuff Safe: LOCKSS, CLOCKSS and Barrels of Stuff

“... let us save what remains ... by such a multiplication of copies, as shall place them beyond the reach of accident.” [Thomas Jefferson, 1791]

Articles are increasingly available online, but do you have a nagging doubt that all which is digital might not always be available?

The University's Information Services is playing a lead role in testing the combination of social model and supporting technology that will ensure long-term access to published scholarly content. It is doing this in two main ways: through participation in LOCKSS Alliance UK, geared to preserving content to which the University currently subscribes; and through membership of CLOCKSS, an international project to test how to preserve all published journal content.

The technology used in both cases is a system called LOCKSS – “Lots of Copies Keep Stuff Safe” – developed at Stanford University. Placed in libraries around the world, ‘LOCKSS boxes’ use the Internet to audit, continually but very slowly, the content they are preserving. At intervals, these boxes automatically ‘vote’ on the content they have in common. If the content in one ‘LOCKSS box’ is damaged or incomplete, that particular box will lose the vote but can automatically repair its content from other boxes.

The LOCKSS Alliance UK is an initiative by JISC and the Consortium of University and Research Libraries (CURL) to prompt uptake in the UK; the University Library is a participant, and the Digital Curation Centre (DCC) is providing technical support. Over 50 libraries have already joined the international LOCKSS Alliance as part of their

preservation strategy for electronic journals to which they subscribe.

What of CLOCKSS?

The other side of the coin is the willingness of publishers, world-wide, to commit the content they own and control, together with concern about all journals, not just those to which a given library might currently subscribe.

In parallel with initiatives being taken by national libraries to develop legal deposit arrangements, a group of research and university libraries, publishers and learned societies came together during 2005 to consider whether ‘Controlled use of LOCKSS’ would secure access for all published journal content. Following discussion with several of the largest publishers, we devised a test to provide publishers with the assurance of a ‘large dark archive’ that was both fail-safe and had an acceptable process for providing continuing access for what might become ‘orphaned materials,’ following various types of disaster.

CLOCKSS is a two-year pilot project, using a significant and representative portion (up to 2 Tbytes) of the total corpus from the publisher members of the project consortium. It will replicate this content using a version of LOCKSS within a network of institutions and libraries of long standing. The University of Edinburgh is the only non-US participant, alongside four leading American universities (Indiana, Rice, Stanford and Virginia) and the New York Public Library.

CLOCKSS is a demonstrator for publishers as much as libraries in the use of geography to test longevity and the use of a joint board, representing learned societies, publishers and libraries, for accountability across the sector.

LOCKSS and CLOCKSS are seen as an extension of the stewardship that research libraries have collectively played for printed works, together providing a keystone in the bridge that must be built for continuity of access to digital material.

To find out more about CLOCKSS and the LOCKSS Alliance UK, see <http://www.lockss.org/clockss/> and <http://www.dcc.ac.uk/lockss/>

Peter Burnhill (EDINA)

Zentralblatt MATH

The Library has subscribed to Zentralblatt MATH, a new mathematics abstracting and reviewing database.

Zentralblatt MATH covers all aspects of mathematics, in a database of more than two million bibliographic records, with abstracts and reviews of articles published – from 1868 to the present – in more than 2,300 journals and serials, as well as from conference proceedings, collections of papers and books.

For access, follow the Maths databases link in the Guide to Resources in Mathematics and Statistics, at <http://www.lib.ed.ac.uk/resbysub/math.shtml>

Rowena Stewart (EUL)

Digital Library of Scotland

The Scottish Distributed Digital Library assembles collections of texts, images and sounds in digital format, with Scottish themes. Everything in the collections is easy to access, without passwords. Items include scanned pages and digital transcriptions of books, digital photographs, scanned photographs, paintings and drawings, and websites. The Library is at <http://scone.strath.ac.uk/sddl/index.htm>

Caroline Porteous (JISC Regional Support Centres for Scotland)



Call for Proposals to run Themes, Meetings and Workshops at the e-Science Institute



The e-Science Institute (eSI) is pleased to announce two calls for participation. Responses to both are due by 19th April.

A Call for Topics for Themes

A 'Theme' funds a programme of workshops, meetings and research collaborations at the Institute, on a particular topic over a period of six months to a year. Each Theme is led by a long-term visitor to the Institute, and has a budget of about £60k.

For further information on this call see the (PDF) document at http://www.nesc.ac.uk/news/articles_and_calls/Call-for-Themes-March-06.pdf

For further information about Themes, see <http://www.nesc.ac.uk/esi/themes/>

A Call for Proposals to run Meetings and Workshops at eSI

If you plan to run a meeting or workshop at eSI over the next year, please submit your request now. The eSI budget for responsive mode events is more restricted than in the past, while demand continues to be heavy. Requests to hold meetings need to be approved by the Programme Committee on the basis of alignment with the e-Science programme's support for research strategy.

For further information please see the (PDF) note at http://www.nesc.ac.uk/news/articles_and_calls/Call-for-Responsive-March-06.pdf

Anna Kenway (e-Science Institute)

QCDOC update

QCDOC has been in full production for over a year, running simulations of Quantum Chromodynamics with a revolutionary 'chiral' discretisation approach. These simulations are performed with a number of values for the *up*, *down* and *strange* quark masses and the results extrapolated to the physical mass values and infinite volume that exist in nature.

These new chiral formulations and algorithmic advances made in Edinburgh allow the simulations to describe fully the up, down and strange quarks. In particular they much better describe the electroweak decay processes that hadrons (*e.g.* protons, pions, and kaons) undergo.

This has involved a number of simulations carried out jointly in

the UK and on the sister QCDOC machine in Brookhaven National Laboratory, USA. Two datasets have been created on both 163x32 and 243x64 space-time grids with an inverse lattice spacing of around 1.6GeV, with up to 4,000 Monte-Carlo samples each and three quark mass combinations. The three large-volume runs have been performed on three 4,096 node machines, sustaining around 1.1Tflop/s on each of these for the last eight months. The lightest-mass (most expensive) simulation has been performed on the UK racks 40-43, and all the 163 simulations were performed on 1,024 and 2,048 node machines in the UK.

The UKQCD team members from Edinburgh, Southampton, Liverpool

and Glasgow are now using QCDOC to mine these valuable datasets to study the rich phenomenology accessible, including neutral Kaon oscillations (*B_K*), Pion and Kaon decay form factors and distribution amplitudes, proton decays as well as the quark masses and hadron spectrum. Initial calculations of mass spectra and decay constants were presented at the Lattice conference in Dublin last Summer, and these ambitious studies of the richer phenomenology will be presented at the Lattice conference in Tucson 2006.

There is more news at <http://ukqcd.epcc.ed.ac.uk/community/qcdoc/>

Peter Boyle (QCDOC co-designer)



Renewing HPCx

HPCx is the UK's national high-performance computing service, provided by Edinburgh Parallel Computing Centre – EPCC – and the CCLRC's Daresbury Laboratory.

The HPCx service was upgraded in November 2005. 'Upgrade' is quite an understatement, in fact. What happened was that the 50 frames of the old system, each containing 32 POWER4+ processors, were replaced by just 12 frames, each of which holds 128 POWER5s, the latest of the IBM POWER processor range. It's an entirely new system, in other words.

The HPCx systems team, working with IBM, built the new system alongside the old, then moved the disk drives across. The service was down for less than 48 hours (remarkably quick for such a radical exercise) and restarted with no significant problems.

The upgrade increases the rating of HPCx from 6.188 Tflops to 7.395 Tflops. More importantly, it lays the foundations for the third phase of HPCx, which will take us up to at least 12 Tflops later in 2006. We can now do this simply by adding more frames. And because we are now using the newest POWER processor, we will be able to keep up with the latest IBM software developments.

The upgrade will help us to prepare for the closure of the UK's other national HPC service, at Manchester, and for future developments in high-end computing in the UK and Europe as a whole. There is further information at <http://www.hpcx.ac.uk/>

John Fisher (EPCC)

e-Science All Hands Meeting: AHM 2006

The Fifth UK e-Science All Hands Meeting will be held on 18–21 September at the East Midlands Conference Centre in Nottingham, providing a forum in which e-Science projects from all disciplines can be discussed. There will be keynote speakers, presentations by groups from throughout the UK, workshops and demonstrations. The deadline for submitting papers and posters is 1st May 2006. Details are at <http://www.allhands.org.uk/>

Alison McCall (NeSC)

UKLight optical network in Scotland

The Scottish research community's efforts to stay at the forefront of scientific endeavour are driving a proliferation of remote research collaborations, which require increasingly sophisticated mechanisms for sharing data. UKLight is a new optical research network which provides such a mechanism in Scotland.

UKLight is the UK's first national dedicated point-to-point optical network with guaranteed quality of service. It provides participating research centres throughout Scotland and the rest of the UK with an R&D facility for applications which have demanding network requirements, and for research into networks. It is ideal for researchers at the University of Edinburgh who want to deploy new applications with large data-rates or work with new equipment and transport protocols.

UKLight is managed alongside the standard SuperJANET network. It has a 10Gbit/s backbone and connects to global optical networks via 10Gbit/s links to Chicago and Amsterdam.

UKLight facilitates collaboration on global projects by providing a point of access to the fast-growing international optical R&D infrastructure – and it is now available to new projects in Scotland. Further information is available from Colin Greenwood at the National e-Science Centre (email coling@nesc.ac.uk).

Colin Greenwood (NeSC)

Science Festival 2006

Edinburgh's International Science Festival once again bursts into action over the Easter holidays, and as usual there are some events and presentations with an IT theme.

- **Machines with Senses:** 10am–4:30pm, 6–10 April, University of Edinburgh@the Museum.
- **Robotic Space Missions:** 6pm, 8 April, Ashley Green, Royal Museum.
- **Supercomputing:** 6pm, 10 April, David Henty (EPCC), Royal Museum.
- **U Human (R U Robots or do U have feelings?):** 6pm, 11 April, Noel Sharkey, Royal Museum.
- **The Private Life of the Brain (the Sidney Michaelson Lecture):** see details below.

The Science Festival website is at <http://www.sciencefestival.co.uk/>

Tickets can be booked through the website, or on 557 5588. The Festival runs from 5th to 16th April.

Nick Stroud (EUCS)

The Private Life of the Brain

This month's British Computer Society meeting is the Sidney Michaelson lecture, and it will be part of the Edinburgh International Science Festival. It will be held at the Royal Scottish Museum, Chambers Street at 6pm on Wednesday 12th April.

Baroness Professor Susan Greenfield will talk on "The Private Life of the Brain". Tickets are available from the Science Festival Box Office. Further details are at <http://www.edinburgh.bcs.org/events/>

David Muxworthy (BCS)



Internet Explorer alert

In April Microsoft will release an update for Internet Explorer 6 on XP SP2 and 2003 server SP1 that changes the way in which web pages that use Active X controls are handled. Further information on this important update and its implications can be found at <http://webhelp.ucs.ed.ac.uk/docs/activexalert.html>

John Smith (EUCS)

C&IT events in Edinburgh

Over the next few months there are several events in Edinburgh and Glasgow that may be of interest to Information System Professionals in the Edinburgh area. A new page on the British Computer Society's Edinburgh Branch website lists them. See http://www.edinburgh.bcs.org/other_events/index.htm

Please note that these are not BCS Edinburgh events; please contact the indicated organisers direct for more information on the events. The BCS is not responsible for the content of any non-BCS websites.

Mike Hurst (BCS)

DCC workshop on email curation:

The Digital Curation Centre – DCC – is delivering a two-day workshop on practical approaches to the long-term curation of emails, encompassing preservation and access. It takes place in the Grey Street Hotel, Newcastle, from 1pm on 24th April to 5pm on 25th April. Details are provided at <http://www.dcc.ac.uk/events/ec-2006/>

Joy Davidson (DCC)

Interest-free Macs

Apple is offering six months' interest-free credit for certain of its computers if ordered before 29th April. The details are provided at http://www.pps.ed.ac.uk/for/staff/computer_ordering/apple_macs.htm

George Reid (Procurement)

10th Computer-Assisted Assessment Conference

This two-day conference takes place on 4–5 July at Loughborough University.

The conference will be relevant to anyone with an interest in any aspect of CAA / E-Assessment, including implementation, pedagogy, technical, research, strategic planning and quality issues.

For further information see <http://www.caaconference.com/>

Wilma Alexander (MALTS)

eLit2006

This conference on digital literacies and learning in the information society takes place at Loughborough University on 28–30 June.

eLit2006 is the fifth international conference examining the challenge of eLiteracy, and is aimed at anyone interested in eLiteracy issues, including information literacy, IT training and the challenges of supporting the wide range of literacies which underpin online education.

The conference will draw together librarians, information specialists, IT service providers, IT trainers, learning advisors, learning technologists, staff developers, educational researchers, teachers and many others.

Full details are provided at <http://www.lboro.ac.uk/library/eLit2006/>

Rob Kirkwood (Loughborough)

Holidays this month

There are two public holidays this month, the Spring Holiday on 10th April, and Good Friday on 14th April. The Main Library will be open from 10am to 5pm on both days, and the Law Library from 10am to 5pm on Good Friday. Most other sites will be closed (hospital libraries may make local arrangements).

The computing labs in the Main Library will be available during opening hours, and the 24-hour labs in the Hugh Robson Building and the King's Buildings Centre will be accessible to students through matriculation cards and PINs (any Lab Supervisor can reset the PIN for students who have lost theirs).

'Midnight Opening' in the Main Library begins again on Saturday 15th April, when the ground, first and second floors will be accessible.

Details of Library opening hours are provided in *Library Online*.

Pam Clouston (EUL)

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Contributions to *BITS* are welcomed.

Copy deadline for May *BITS*:

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