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# UKOLN

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## Report for the period 1 August 1997 to 31 July 1998

Presented to the British Library Research  
and Innovation Centre and to the  
Committee on Electronic Information  
of the JISC

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August 1998

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## Preface

I would like to preface this report with a note of thanks to those who have helped contribute to UKOLN's work over the last busy year.

We are lucky in having hard-working and dedicated staff. What success we have is due to their commitment.

We are grateful to the many people who serve on our Management and Advisory Committees. In particular I would like to thank our outgoing Advisory Committee and its chair, Sheila Corral, for guiding us through the last formative three-year period. As we enter a new three-year funding period, and as we have consolidated several areas of work, some with independent lines of advice, it has been decided that the Advisory Committee, in its current form, will come to an end. However, we look forward to continuing to work with its members in formal and informal ways. We would also like to thank our Management Committee and its chair Dr Richard Heseltine, for steering us through the last year.

This year saw the successful bid to the British Library to continue its funding for another three-year period. This amount will be matched by JISC's Committee on Electronic Information. We look forward to working with our funding bodies over the next three years, and with our primary contacts within them. I would like to thank Dave Cook, Alice Colban and Martin Metcalfe of the JISC Secretariat, and Sue Howley, Graham Jefcoate and Adrienne Muir of BLRIC, for continuing advice and support.

The latest UKOLN conference *Information landscapes for a learning society* was held during the year. We are always reminded during these events of the advantages of being located in the City of Bath. We continue to be grateful to the University of Bath and its officers for providing us with a home and supporting services. In particular, we are grateful to Professor George Lunt, Deputy Vice Chancellor, Professor James Davenport, University Director of IT, and Howard Nicholson, University Librarian, for continued interest and support. We are lucky to be based in the 24-hour Library and Learning Centre, and we value our interaction with the library and computing staff.

**Lorcan Dempsey**  
**Director, UKOLN**

August 1998



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## Changing landscape of networked information ...

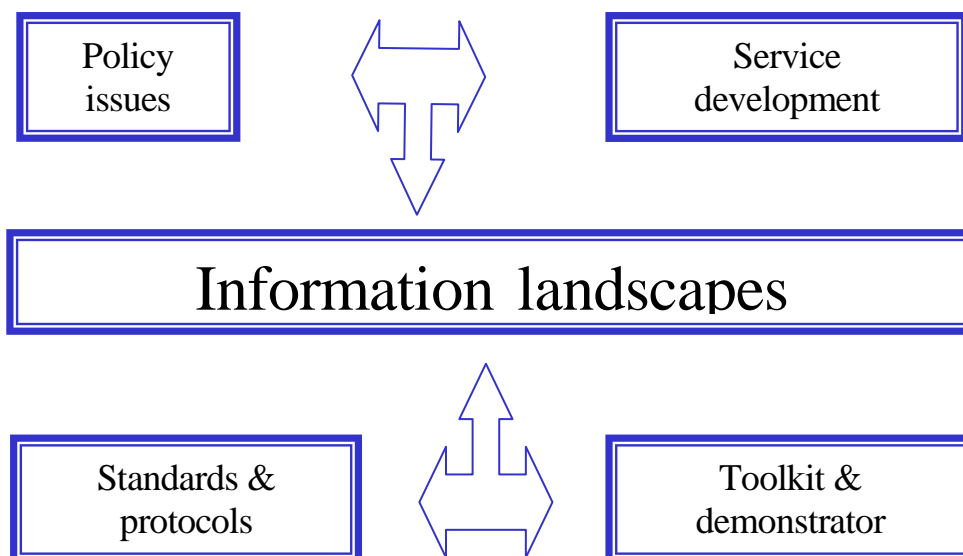
### Introduction

This has been another active year capped by the conference *Information landscapes in a learning society*. The conference themes and content pointed up quite strongly some of the developing aspects of our work.

- *Information architectures: constructing the digital library*. There is still a wide gap between service requirements and the standards and technical infrastructure in place to support effective network information services. It is this deficit that is driving a digital library R&D agenda. We continue to work with others on resource discovery, metadata and distributed library systems and to provide policy and practical advice in these areas.
- *Information landscapes*. How will we create network communities and places? Our current landscapes are shallow, simple pages of links or cumbersome, non-communicating systems. How to create complete service environments which are rich in functionality, which mesh with user behaviour and aspirations, and which work across sectors and domains is a challenge. We will be looking more at this area as some of our project work begins to put together working systems.
- *Information and the public sphere*. What is the role of a public service in the digital environment? What services are required to support an informed citizenry, to create learning and creative opportunities? We will continue to look at these questions in relation to libraries and to the wider communities with which they increasingly interact.

The conference highlighted the inevitably cross-sectoral and international nature of these questions. It demonstrated points of contact and comparison between those responsible for cultural heritage, learning and information services. It underlined the need for dialogue and shared approaches which allow the flow of information and learning opportunities, which encourage collaboration as we design our collective future. It emphasised the connection between the professional and sectoral concerns we have been discussing and the wider political issues of a 'learning age', and the crucial need to lobby, inform, and demonstrate value in actual services.

UKOLN is working to support viable digital environments or 'information landscapes' by developing understanding of web technologies, digital library technologies and library network services from which landscapes will be built; by communicating information about the standards and protocols that support the 'plumbing' and facilitate information flow; by working



with others to put in place toolkit and demonstrator support to show what is possible; by promoting the development of new services; and by explicating service and policy issues.

We are working to influence policy and inform practice in the library community and we are working to persuade those outside the library community of the contribution libraries can make to the rich learning and information landscapes of the future. We broker collaboration and work towards consensus, roles which are becoming more important as interests converge and new divisions of labour emerge in the networked world.

This report summarises our work of the past year. It includes an overview of work areas, and a list of publication and other dissemination work. UKOLN works hard to increase awareness, to contribute to the community's knowledge base, and to influence policy and practice.

Of particular interest is an invitation from the *Journal of Documentation* to prepare a special issue based on UKOLN work. This will appear in early 1999.

UKOLN was pleased to have its proposal for the next three-year period accepted by BLRIC. Referees' comments noted UKOLN's ability to 'deliver direction and leadership', and our capacity to be the 'single most significant body in the UK for research and innovation in networking in the public library sector'. They also noted that no other European country has managed to develop such a 'key focus in this vital area for libraries', and drew attention to the importance of our international work. We are grateful to the referees for their comments and also for their advice and guidance in how we can improve our effectiveness and impact. We will be working with our funding bodies during the coming period on dissemination and influence, on performance review, and on developing shared agendas for moving initiatives forward.



Supporting the creation of rich information landscapes

## **Mission**

UKOLN is a national centre for support in network information management in the library and information communities. It provides awareness, research and information services and has the following goals:

- to promote awareness of emergent issues at technical, service and policy levels,
- to provide a focal point for research, development and performance measurement,
- to influence policy makers and service providers in the interests of the communities it serves,
- to demonstrate high-quality information services.

## **A brief history of UKOLN**

This year UKOLN and its antecedent organisations celebrate 21 years at the University of Bath. UKOLN is a multi-disciplinary research and development unit with well-developed information and promotional services and a focus in the area of networked information management. It receives funding from the Committee on Electronic Information (a sub committee of the JISC), the British Library Research and Innovation Centre, the European Union, and is supported by the University of Bath. UKOLN currently has a staff of 18.

Some salient aspects of development are noted here.

**1979**

*Centre for Catalogue Research* established.

The establishment of this office, funded by the British Library R&D Department, was preceded by several projects looking at catalogues and bibliographic data, including the Bath University Programme of Catalogue Research (1977-79). This work was initiated by Maurice Line, sometime University Librarian at Bath, and Philip Bryant, technical services librarian. Philip Bryant became Director of the CCR. People who worked with the Centre in this period included Alan Seal, Janet Kinsella, Gill Venner, Steve Prowse, Jo Lye and Carolyn Hall.

**1987**

*Centre for Bibliographic Management* established.

The change of name recognised the wider role the Centre was playing in the UK library world. Lorcan Dempsey and Ann Chapman became research officers at CBM during this period, and Thay Gordon joined as secretary. Ali Cook began doing support work, before becoming Financial Administrator.

**1989**

*UK Office for Library Networking* established after a grant is made by the British Library Research and Development Department (BLRDD). UKOLN was set up to work alongside CBM. John Smith became the National Project Officer for UKOLN and its only full-time member of staff.

## 1992

CBM and UKOLN merge to form *UKOLN: The Office for Library and Information Networking*. UKOLN is jointly funded by the ISC (now the JISC) and BLR&DD.

## 1994

Philip Bryant retires as director of UKOLN.

Lorcan Dempsey appointed as director of UKOLN (November 1994).

## 1995

Current name established: *UKOLN: The UK Office for Library and Information Networking*. UKOLN recruit several new research and information staff, including Rosemary Russell, Rachel Heery, Sarah Ormes, and John Kirriemuir. Hazel Gott joins as Promotions Officer to manage a growing range of workshops and events. Ruth Burt joins as Office Administrator.

UKOLN begins its work within an eLib framework. We initiate the ROADS project and begin planning for the *Ariadne* magazine as well as taking on the task of providing eLib web pages.

## 1996

As the library is refurbished, UKOLN moves into new offices on Level 4. Several more new staff are recruited, including Andy Powell, Glen Monks, Michael Day, Isobel Stark and Penny Rogers. Brian Kelly joins UKOLN as UK Web Focus.

UKOLN gets its first experience of working on EU-funded projects as DESIRE and BIBLINK begin. UKOLN also begins work on NewsAgent.

## 1997

Sally Criddle is appointed to the newly created post of Resource Co-ordinator. Birgit Kongialis joins to work with Hazel Gott on promotions, as we expand our work in this area.

UKOLN is reviewed by its funding bodies and is congratulated on “becoming recognised as a centre for excellence at international levels in the areas of networking and associated new technology and standards development.”

UKOLN consolidates its group structure around several groups with co-ordinators.

Preparatory work begins on EU projects PRIDE and Exploit; BLRIC funded projects Webwatch, CIRCE and Stories from the Web; and on JISC funded AGORA.

Ian Peacock joins UKOLN to work on the BLRIC funded WebWatch project. Eddie Young and Philip Hunter join as Network Systems Officer and Information Officer respectively.

## 1998

Work commences on the JISC funded Agora project and the EU funded EXPLOIT project. The BLRIC and the JISC agree to jointly fund the post of Interoperability Focus. UKOLN contributes to CEDARS, an eLib programme project. Susan Stidolph, Manjula Patel, Tracy Gardner and join the staff, in part-time capacity and Bernadette Daly is appointed as Information Officer.

Over 200 delegates attend *Information landscapes for a Learning Society*: the third UKOLN conference in the series *Networking and the Future of Libraries*, held at the end of June.

### **Structure**

We organised into a group structure last year. It was agreed that groups and their roles would be regularly monitored, and a review will take place shortly to assess effectiveness and to ensure that current growth is appropriately accommodated.

### **Staff changes and activities**

In September, Ian Peacock was appointed to the WebWatch Project. Ian is also involved in supporting other technical development work across UKOLN. Eddie Young joined UKOLN as Networked Systems Officer and Philip Hunter was recruited to the post of Information Officer. During the year Isobel Stark left UKOLN to take up the post of Subject Librarian in the Library and Learning Centre here at the University of Bath. Her post as Information Officer has recently been filled by Bernadette Daly, who joined in early July. Penny Rogers has left to concentrate on her freelance book editing activities. Susan Stidolph now assists Ann Chapman with her survey work.

Rosemary Russell now devotes 50% of her time to managing UKOLN's involvement in the Agora project.

Tracy Gardner, a PhD student based in the Mathematics Department of the University, is supporting the ISG group on a part-time basis, programming dynamic site structures for the UKOLN web service. Manjula Patel has also joined on a part-time basis and is currently working on the BIBLINK project.

Towards the end of the period, the post of Interoperability Focus was advertised, as was a further technical post to work on Agora and MODELS.

In July Caleb Woodhouse, a GCSE student, spent a week's work experience with the Systems and Technical Development Group.

### **UKOLN committees**

UKOLN has until recently been managed and advised by two committees, an Advisory Committee and a Management Committee. These comprise representatives from the library and information communities within which it operates. The Management Committee has recently

reviewed the role and function of these committees. It was felt that the Advisory Committee was no longer needed in its current form, especially as a variety of other advisory mechanisms are in place. It was felt that UKOLN would best be served by slightly expanding its Management Committee and we are currently seeking to widen the membership of this committee. We would like to thank all previous members of the Advisory committee for their support and commitment to UKOLN over the years.

Sheila Corral has until recently been a member of both the Advisory and Management Committees, however, due to the pressures of her external commitments, she has decided to resign from the Management Committee. We would like to thank Sheila for all the support and encouragement she has provided over the years.

The membership of the Management Committee at the end of this period is given below. The Committee is currently being slightly extended.

Dr Richard Heseltine (Chair), Director of Academic Services and Librarian, University of Hull
Ms Sheila Corral, University Librarian, University of Reading
Mr Dave Cook, JISC Secretariat
Mr John Dolan, Head of Central Library, Birmingham
Professor George Lunt, Deputy Vice Chancellor, University of Bath
Ms Adrienne Muir, Research Analyst, British Library Research and Innovation Centre
Mr Howard Nicholson, Librarian, University of Bath

... a capacity to deliver direction and leadership ...

*BL Bid Referee*

## **Research, information services and events**

We present our work in the following areas:

- Digital library technologies
- Web technologies
- Public library networking
- Information services
- Events management

Significant impacts in this period are reported below.

## **Digital library technologies**

### **Metadata and resource discovery**

#### **ROADS**

The ROADS (Resource Organisation and Discovery in Subject-based services) project, funded by the eLib programme, now has funding until December 1998. ROADS is a development project to design and implement a user-oriented resource discovery system to allow users to find and use networked resources (documents and interactive services) of interest to them without leaving their routine working environment. The system is used by several of the eLib subject gateways as well as by many other similar services around the world.

ROADS is investigating the creation, collection and distribution of resource descriptions, to provide a transparent means of searching for, and locating, resources. The object is to help create standards of good practice that can be widely adopted by subject communities and aid automation of the process of resource organisation and discovery in a distributed environment. Involvement in international standards-making activity and maintaining

interoperability between ROADS and other protocols and formats are also important project aims. The software uses the Whois++ protocol and ROADS templates based on the IAFA (Internet Anonymous FTP Archive) resource description templates. UKOLN maintain the registry of these templates.

As part of the Interoperability strand of ROADS, UKOLN has worked on the production of some generic *Cataloguing Guidelines*, outlining how ROADS templates should be completed and giving advice on formats for things like names and dates. A draft version of the guidelines was issued in January 1998 and these are currently being revised.

UKOLN has also been carrying out a study of the current cataloguing policies and practice of the eLib subject services (RECCI - ROADS Evaluation of Cataloguing with Connection to Interoperability). As part of this, a sample of ROADS templates has been collected from eLib subject services (ADAM, History, OMNI and SOSIG), and the contents of these are being analysed. This involves looking at a sample of completed ROADS templates and evaluating them with regard to cross-searching ability and quality. Documentation covering subject services own editorial policies with regard to validation processes and error checking will also be collected. As part of this work, an up-to-date statistical analysis of ROADS services' use of templates will also be gathered.

We are currently working on using a ROADS database to hold metadata about local Web pages and to have that metadata embedded into the pages dynamically using a server side include script. UKOLN have set up several demonstrators of the cross-searching functionality offered by the Whois++ and centroid support in ROADS version 2. We are also in the process of providing technical documentation for how ROADS services can be integrated with Z39.50 services – in particular with regard to the eLib phase 3 hybrid library projects.

## CEDARS

The CURL Exemplars in Digital ARchiveS project (CEDARS) is funded by JISC through eLib. The project aims to promote awareness of the importance of digital preservation, to identify strategic frameworks for digital collection management policies and to promote methods appropriate for long-term preservation. UKOLN is involved with the parts of the project that relate to metadata. Metadata can be used as a means of preserving technical data about digital resources, for recording migration strategies and enabling the construction of software emulators. It can also be used to help ensure the authenticity of digital objects, for noting associated rights management information and to aid relevant collection management strategies. The first part of the metadata work being carried out within CEDARS will be to identify current initiatives and formats which are being developed to store this metadata and work on this will be starting shortly.

## BIBLINK

BIBLINK, funded within the EU Fourth Framework Telematics for Libraries Programme, aims to establish a relationship between national bibliographic agencies and publishers of electronic material, in order to establish authoritative bibliographic information that will benefit both sectors. The project has the overall objective of furthering the development and improvement of national bibliographic services by establishing a link between the parties concerned.

Along with other partners in the project, UKOLN have helped to develop both the User Requirements Specification and the Functional Specification for the BIBLINK Workspace. These documents describe in detail a workspace that will enable the sharing of metadata between publishers, National Bibliographic Agencies and other third parties. A sub-contractor, Jouve, has now been selected to develop the software required for the BIBLINK Workspace and several of the BIBLINK partners are in the final stages of negotiation with Jouve about the exact details of what will be developed. The workspace

will form the basis of the cross-European BIBLINK demonstrator. Selected publishers will be able to submit metadata about their electronic publications to the BIBLINK workspace as Dublin Core records or SGML headers. The workspace will be accessible using both email and Web-based technologies.

## NewsAgent

The aim of the eLib funded NewsAgent project is to create a user-configurable electronic news and current awareness service for library and information staff with a mixture of content streams, including metadata (descriptions of documents).

The first phase has now come to an end. The trial NewsAgent service is being run by UKOLN. The database contains around 3300 descriptions of resources of potential interest to LIS staff. UKOLN have developed a Whois++ interface to the NewsAgent database to allow it to be integrated with ROADS-based subject services.

Experience gained during the trial service was used as the basis for a User Evaluation, written by CERLIM. A Technical Evaluation, providing a critique of the software and metadata formats developed during the first phase of the project, was written by UKOLN. Both documents will feed into the software enhancements that will be made during the next phase of the project. NewsAgent for Libraries II hopes to see the development of a commercial current awareness service for library and information staff.

Work on NewsAgent for Libraries II will start later this year.

## PRIDE

Work has also begun on the PRIDE project (People and Resource Identification in Distributed Environments), funded under the EU Fourth Framework Programme. PRIDE is led by LASER and will explore the use of directory services to provide environment knowledge to distributed information services. It will investigate metadata and protocol issues in several service scenarios and it is hoped that it will make a significant contribution to supporting a key component in effective future systems. UKOLN will be contributing to the state-of-the-art and requirements phase which is underway, and to technical work later in the project.

## UKOLN working with Dublin Core initiative

Over the last few years, the Dublin Core has emerged as a significant international consensual initiative to create a common approach to the description of network information objects to facilitate their discovery. Work has progressed through workshops and background group work to address technical issues. UKOLN has been closely involved with this work and jointly organised the second workshop with OCLC in Warwick in 1996. UKOLN is implementing the Dublin Core in some projects, disseminates information about it, and has presented a tutorial in Luxembourg to EU-funded projects that wanted to learn more about it. The Dublin Core has been a voluntary initiative, owing much to the evangelism of its primary proponent, Stu Weibel of OCLC. Recently, it has been decided to formalise operations and two committees have been set up. Lorcan Dempsey sits on the Policy Advisory Committee. Rachel Heery and Andy Powell sit on the Technical Advisory Committee.

## Metadata initiatives

During the year we collaborated with the Arts and Humanities Data Service on a series of workshops and a programme of work which led to the publication of *Discovering online resources across the humanities: a practical implementation of the Dublin Core*.



We prepared a metadata tutorial at the request of the Libraries Unit of the Commission. This was presented to a range of EU projects in Luxembourg and is available on the UKOLN web site.

## Technical development

We contribute development activity across projects. This has concentrated on various approaches to metadata management and harvesting. The metadata generator DC-Dot is widely used and we have done some experimental work on resolving Digital Object Identifiers using Squid.

## Staff

Rachel Heery, Andy Powell and Michael Day work on UKOLN's metadata projects. Ann Chapman has contributed to the RECCI evaluation work. Manjula Patel is currently working on the BIBLINK project. Ian Peacock provides some input also and this will grow next year. Rachel Heery co-ordinates research work. Andy Powell co-ordinates technical development work.

## Distributed library systems

### MODELS

The MODELS (MOving to Distributed Environments for Library Services) project, funded by eLib and the BLRIC, arises from the need to construct an applications framework to manage the rapidly multiplying range of distributed heterogeneous information resources and services being offered to libraries. MODELS provides a forum within which the UK library and information communities can explore some of the issues that need to be addressed.

The project began in 1995 and five workshops were held prior to 1998. A further two workshops have been held so far this year, with one more scheduled for the autumn.

*A Distributed National Electronic Resource?* was the sixth workshop, held in February. It was one of the largest to date, involving around 50 invited participants. Discussions about the content of a DNER have been taking place within other JISC fora - MODELS focused on what the 'distributed' part might mean. The workshop therefore developed further the MODELS Information Architecture (MIA), a framework for talking about distributed information resources with a shared vocabulary and set of concepts. MIA includes the concept of information landscapes, a term used to describe an organised, personalised view of information resources.

MODELS 7 took place in May, addressing the deployment of MIA. It looked at ways of developing the framework into a practical tool which can be used by library and information services and systems developers. The need to define interfaces between distributed components in the broker model was recognised, and this work is being taken forward, concentrating on external interfaces.

eLib has extended its funding for MODELS until July 1999. Two further workshops will be held between January and June next year; topics for these are currently being discussed with eLib.

## Interoperability Focus

Following the 1997 scoping study into the proposed *National Agency for Resource Discovery*, JISC and BLRIC have agreed to jointly fund a post at UKOLN to undertake this activity, initially for three years. The need for this post arose from discussions at the

third MODELS workshop, where it was recognised that there were a number of areas requiring consensus and agreement if distributed working were to be effective.

The scoping study was carried out by CERLIM and Fretwell Downing, with contributions from Geoffrey Hare and Index Data. It looked at issues in libraries, museums and archives and recommended the setting up of a NARD. *The New Library: the People's Network* report also recommended that the NARD be supported. The Interoperability Focus will carry out some of the recommendations of the report, but will not, at this stage, address the full NARD agenda. The post will benefit from synergies with existing UKOLN work.

Its initial focus will be support for library interoperability issues, with special reference to profiles, resource sharing (interaction with holdings and circulation data), and collection/service description. In time it is hoped to extend its remit to cover archives and museums, recognising that we share many of the same concerns, and also that users increasingly need to discover resources *across* domains.

### Z39.50 profile work

Several Z39.50 library profiles (including the MODELS Profile) have already been developed in different countries, to improve systems interoperability and search results. Given the international nature of the library systems market, it is unrealistic to expect vendors to conform to a number of profiles. The development of an international Z39.50 profile is therefore being explored, which would support effective cross-border Z39.50 searching. UKOLN is collaborating on this with a wide range of organisations, including the National Library of Canada, the National Library of Australia, the US Committee on Institutional Cooperation (CIC), the ONE project and others in the EU Libraries Programme; we are also seeking input from other UK bodies such as the British Library and the clumps projects. The work is being co-ordinated by the National Library of Canada. The Interoperability Focus post will take UKOLN's role forward.

### AGORA

Work has recently started on AGORA, one of the eLib phase 3 'hybrid library' projects. It was initiated by UKOLN and is being led by UEA. AGORA will be implementing the architectures and approaches developed by the MODELS project. UKOLN is co-ordinating the service provider involvement and technical input, as well as organising communications and dissemination. The service structure of the AGORA hybrid library prototype is currently being developed, together with the technical partner, Fretwell-Downing. The first demonstrator will be available during the summer. This will initially demonstrate cross-domain searching for mixed media, and search through to delivery for monographs and serials. There are five university library associates involved, who will use the 'Hybrid Library Management System' developed by AGORA to deliver services. Feedback will be collected from users at these sites, which will shape the first real working system, to be delivered in 1999. AGORA is working closely with other eLib phase three projects, including RIDING and Music Online.

### Staff

Rosemary Russell continues to manage the MODELS project and, in addition, started working as AGORA Communications Manager in June. A new Technical development and research post, to be appointed shortly, will also work in the distributed library and information systems area.

## **Bibliographic Management**

### **Multisource Currency Survey**

Since September 1996, UKOLN has been investigating the availability of bibliographic records, at the time required by the user, from a number of bibliographic databases, in addition to the on-going monitoring of the BNB files of the British Library. The additional databases are the library and book trade services of Bibliographic Data Services, Book Data and J. Whitaker and Sons, databases of the library management systems of BLCMP and SLS (Information Systems) Ltd, the inter-lending facilitation services of LASER and Unity, and the large bibliographic databases of CURL and OCLC.

Enough data is now available to produce statistically valid figures and a report has been written on the results of the survey for the period September 1996 to August 1997. The first part of the report presents the findings of the survey and a number of issues are also identified and discussed. The report looks at how much database update frequency affects availability, the types and quality of records found, the proportion of more recent titles being ordered, the proportion of titles ordered in different subject areas and whether there are differences for the public and academic sectors.

The second part comprises the database profiles. The profile for each database gives an overview of the database (e.g. size, files held, record format, standards in use, availability of records) together with the results for the database with an accompanying discussion of the results and possible implications. The report is available from UKOLN.

### **Future Currency Survey work**

The participating databases in the Multi-source currency survey have agreed to the survey continuing till August 1998. At present the extended survey is carried out using an ordering stage sample for titles in the UK imprint only. UKOLN is currently exploring collecting a new sample of titles without restriction to the UK imprint.

An extensive amount of data, from 1980 to the present, is held in the Currency Surveys database compiled for the surveys. UKOLN is exploring the possibility of further analysis of this data in collaboration with LISU (the Library and Information Statistics Unit at Loughborough University).

### **The currency of BNB MARC records on the British Library BLAISE database**

Monthly surveys of the currency of BNB MARC records on the British library BLAISE database are now in their 18<sup>th</sup> year. The surveys cover items with publication dates of 1974 or later, with a UK publisher or distributor, which are within the coverage of the British National Bibliography. Each month results are tabulated and analysed and a conflated hit rate produced for the previous twelve months. The hit rate is the percentage of items for which records were found. A second search of the database six months after the original search identifies records subsequently added to the database. The results of this produce the recheck hit rate. The results are regularly published in the British Library newsletter *Select* and will be published on a regular basis in the *Library Association Record* from September 1998.

### **Essex County Library catalogue quality study**

Work on a collaborative project with Essex Library Service has been delayed because of difficulties being experienced by Essex in their installation of a new automated library management system. Although Essex would still like to trial the method to provide a

catalogue quality performance measurement, this may not be possible for some while and other libraries are being contacted to try and find an alternative for the pilot study.

### Other work

UKOLN is continuing to monitor the records contributed to the BNB files through the Copyright Libraries Shared Cataloguing Programme (CLSCP). This is now undertaken as an annual snapshot and the results are reported to the British Library and the CLSCP Steering Committee.

### Co-ordination and awareness

Ann Chapman is a member of the BIC Bibliographic Standards Technical Sub-Group which is currently acting as a consultant body on the ongoing UK/US MARC harmonisation programme. She is also a member of the LASER Working Party on ILL for Non-Book Materials which is currently focusing on inter-lending issues for recorded music and videos.

### Staff

Ann Chapman co-ordinates bibliographic management work. Susan Stidolph assists her in survey work, on a part-time basis. Eddie Young provides technical support.

## Web Technologies

### Web Focus

UK Web Focus is a national JISC-funded World Wide Web co-ordination post for the UK higher education community. The post is held by Brian Kelly. UK Web Focus activities include: monitoring Web developments; dissemination of information on Web developments; co-ordination of Web activities. Areas of interest are broad, including developments to Web transport protocols (HTTP), addressing protocols (URLs), formats (HTML, XML); indexing, metadata, collaborative systems, software, tools etc. the UK Web Focus also represents JISC on the World Wide Web Consortium.

In April 1998 Brian Kelly attended the Seventh International World Wide Web conference which was held in Brisbane, Australia. The conference is the key international event for the international web research community to report on their web-related activities. The conference also provides an opportunity for the World Wide Web Consortium (W3C) to give an update on their activities, including developments to web protocols.

The highlight of the conference was RDF, the Resource Description Framework. RDF, which is an XML application which provides a framework for the development of metadata applications, such as resource discovery (in particular Dublin Core), authentication, content labelling, rights management, privacy and electronic commerce.

Brian Kelly participated in the joint UKOLN /eLib seminar *RDF: What is It?* in which he gave a presentation on *RDF Tools*.

Dissemination of the issues raised at the WWW 7 conference took place through a trip report, two articles in *Ariadne*, seminars held at the universities of Bath, Bristol and Manchester and a video-conference to a number of Scottish Universities

Brian Kelly also gave a presentation on *Standards, the Web and eLib Projects* at an eLib project Manager's Forum. Other standards work include co-authoring the *eLib Standards Guidelines* document and membership of the JISC Standards Sub-Committee.

Other JISC activities include participation in the JISC Mirroring Working Party and membership of the JISC DISinHE Steering Group.

## WebWatch

The BLRIC funded WebWatch project has been analysing the use of web resources within various communities. Recent work has included analysing robot exclusion files, analysing UK academic library web sites and carrying out a number of smaller surveys for individual institutions. Recent reports have provided information on HTTP headers (which may include server-software, platform and caching directives), hyperlink profiles (including locating links which may result in transatlantic traffic), the use of technologies (such as Java, scripts and event-handlers), HTML conformance and the use of HTML-embedded metadata.

Current technical work is focusing on integrating the robot-gathered data with a relational database which should provide the facility for users to perform their own analyses. A web front-end will allow users to execute SQL-queries on the database containing the information for their site.

Ian Peacock works on the WebWatch project.

## Public library networking

### New Library

*New Library: The People's Network* has had a significant impact on public library activities within UKOLN over the last year. The Library and Information Commission was commissioned by the Government to make recommendations as to the future role and activities of public libraries. Their report was presented to Government in October 1997. Lorcan Dempsey was a member of the Working Party that compiled the report and Sarah Ormes provided background research and was responsible for compiling an appendix to the report that investigated national responses to the 'Information Society' in other countries. The report met with great enthusiasm within the public library community and beyond. UKOLN helped to disseminate the ideas and issues contained in the report, by creating and producing, with the LA and EARL, a briefing pack. This included a PowerPoint presentation designed to be given by library managers to their staff, that explained the background to the report and its recommendations. The Government responded to the report by charging the LIC with setting up task groups to take forward thinking on content creation, ICT procurement and implementation and library staff training, the three major themes of the report. Sarah Ormes is currently involved in research work on behalf of the Content Creation Task Group.

### Public library Projects

Our involvement with the BLRIC funded projects *Stories from the Web* (with Birmingham, Bristol and Leeds public libraries) and *CIRCE* (with Gloucestershire and Croydon public libraries and EARL) continues. The *People Flows* project is nearing its completion. This project, also supported by the BLRIC, based at the University of Central England, has been investigating the extent of cross-use of publicly-funded libraries in Birmingham and Sheffield. A report of the project findings, including a contribution from Sarah Ormes will be published.

### Other Activities

The EARL Networked Services Policy Task Group, in collaboration with UKOLN and the Library Association, is producing briefing papers on networked services policy issues. These issue papers will help library authorities develop their own networking strategies and

policies. The topics for the issue papers will cover key areas affecting the successful development and delivery of networked services in public libraries. The papers will provide relevant information pertaining to each issue, including options for consideration, examples of best practice, legislative framework where applicable and known authoritative views. Sarah Ormes is the project manager for the production of these papers. The first of these papers will be on Censorship/Filtering/Acceptable Use.

In November, UKOLN and the University of Bath Library and Learning Centre jointly hosted an Internet Open Day for local councillors and the public as part of National Libraries Week. The aim of the event was to give people with little or no opportunity of using the Internet a chance to sample the World Wide Web. Four 90-minute sessions were run throughout the day. Local councillors were invited to explore the local and national government information available on the Internet. The three other sessions were all open to the public and they gave an opportunity for people to explore, amongst others, family history resources and Internet resources for homework and school projects.

Also, as part of UKOLN's contribution to National Libraries Week, LIBWEB was set up. This is an online gateway to library and information services in the Bath area. LIBWEB is hosted by the UKOLN web service.

Sarah Ormes and Sally Criddle led a seminar for the Art's Council's *Reading for Life* Conference that explored the ways public libraries can use opportunities offered by networking to enhance and develop their literature services.

UKOLN was represented at the American Public Library Association Conference in Kansas City, Missouri, by Sarah Ormes, and at the Library Association's Public Libraries Group Biennial Study School, in Norwich, by Sally Criddle.

Sarah Ormes contributes a regular column to *Library Technology*, the *Library Association Record's* bi-monthly technology supplement.

In February BLRIC and UKOLN jointly held a discussion seminar about local history networking. The seminar was attended by invited stakeholders and explored many of the issues local history services are facing as they develop networked services. A full report of this seminar will be available.

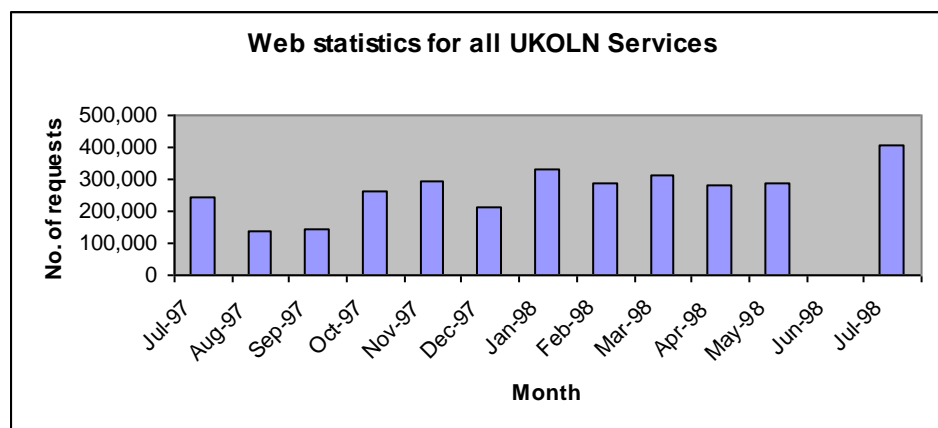
Sarah Ormes is the joint Director of Studies for the British Council Seminar on public libraries, that will be held in Birmingham in March 1999.

## Staff

Sarah Ormes is UKOLN's Public Libraries Networking Research Officer. Lorcan Dempsey and Sally Criddle also work on some public library projects.

## Information Services

UKOLN provides a range of Web-based information resources. These include informational pages about its own work, pages about the areas in which it works (e.g. metadata, public library networking, distributed library systems), services (eLib informational pages, *Ariadne*), mirrors (e.g. *D-lib Magazine*) and hosted services (e.g. the Society for Chief Librarians). Together this represents a significant repository of information about digital libraries and related developments.

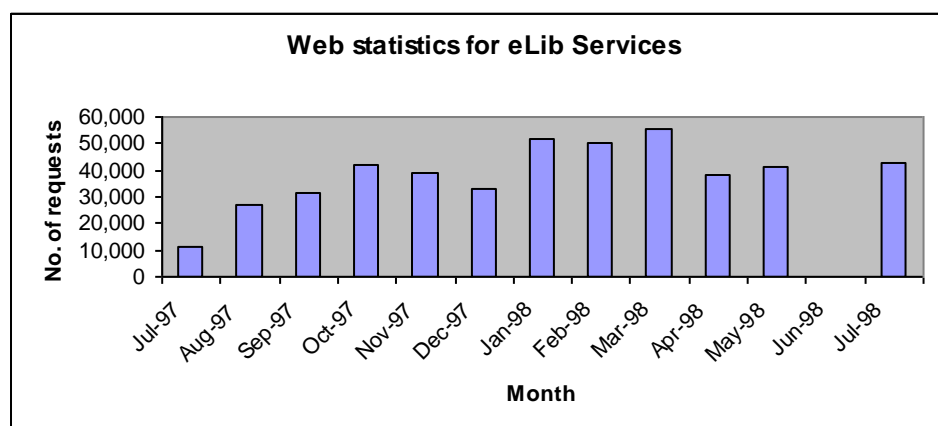


### European Library Telematics EXPLOIT project

UK eLib projects have benefited from the wide circulation of their progress reports gained from publication in Ariadne. At the moment there is no comparable publication for the EU Telematics programme. The UKOLN ISG group is involved in the development of a new web magazine to fill the gap for library telematics projects in both Western and Eastern Europe. Funding is now available for this magazine – which is still in search of a suitable title. The magazine will be managed with the aid of site tools evaluated by UKOLN, and mounted on an NT server. As much as possible of the production of the magazine will be automated. The aim is to produce the magazine using HTML 4 Cascading Style Sheets, so that the layout of the publication remains separate from the actual mark-up of the magazine pages.

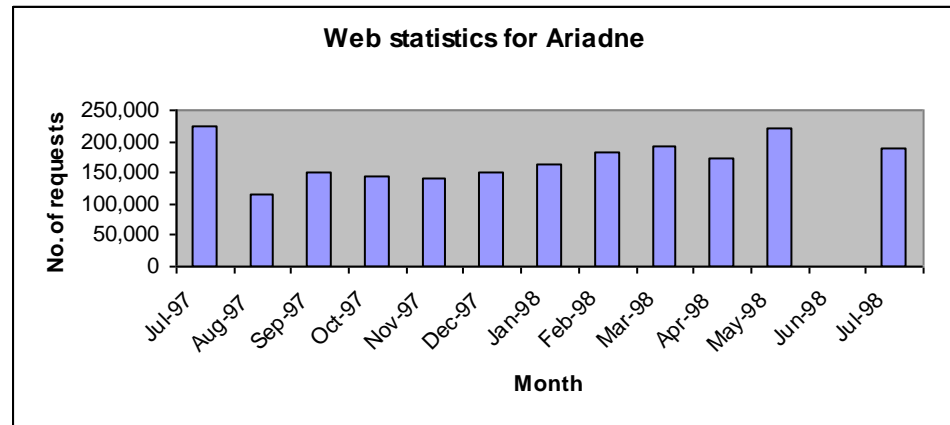
### eLib Programme Pages

UKOLN provides a web-based information service for the Electronic Libraries Programme. The eLib pages have recently been restructured in order to facilitate site-wide updates, partly to keep pace with the development of that particular part of the UKOLN web service, and also to optimise the technology for UKOLN's requirements before applying it to other parts of the service.



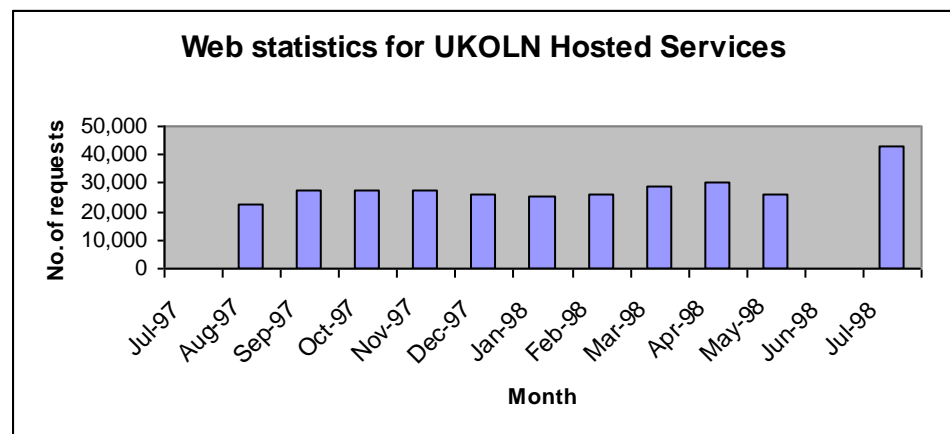
## Ariadne

Ariadne magazine is one of the original eLib projects, funded under the training and awareness part of the programme. Along with other original projects, its initial funding is coming to an end. It is hoped that the magazine will continue in some form, as a valuable dissemination tool for UKOLN, electronic libraries projects, and the UK information technology community as a whole.



## UKOLN hosted services

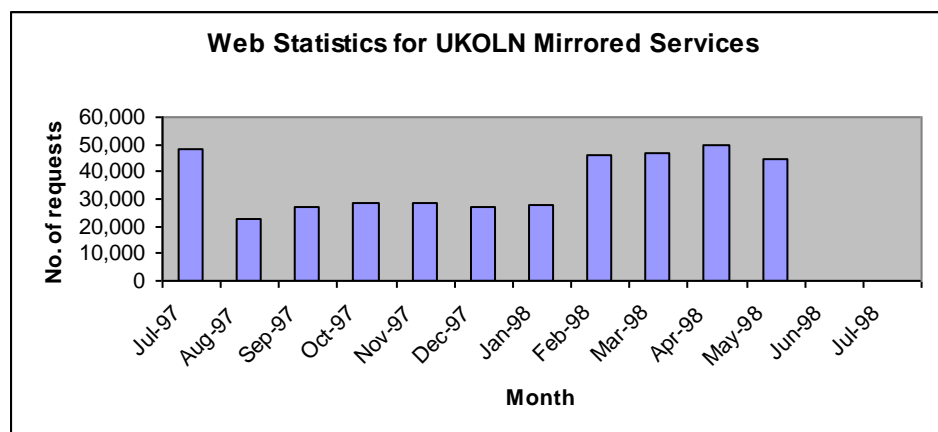
UKOLN continues to provide information mounted for the British Library Digital Library Research programme, which includes details of the current programme, events, papers and reports. It also hosts, amongst others, the web site of the Society of Chief Librarians and LIBWEB, an online gateway to library and information services in the Bath area.



## Mirror Sites

A number of significant resources are mirrored on the UKOLN web site, including; LIBRES, an international, refereed, electronic journal; D-Lib Magazine, a forum for researchers and developers of advanced digital libraries and MC Journal, the Journal of Academic Media Librarianship devoted to new research in Library and Information Science.





## Web Service Developments

Plans are being developed to expand the use of metadata for the UKOLN web service. Currently metadata is available for the later editions of Ariadne, key eLib pages, and some of the metadata pages. As the various pre-Phase 3 eLib projects wind down, the UKOLN eLib pages will increasingly become the first port of call for information about completed and current projects. An expanded ROADS database using Dublin Core metadata will facilitate searches for information in this part of the web service. The metadata will be included on-the-fly from an external database, as is the case currently with Ariadne.

A number of web site management tools have recently been evaluated. These may be used in the future, together with CGI scripting and other established techniques, to manage UKOLN's expanding web site. The migration of the UKOLN web service from its old structure to its new, more logical mapping, has been successfully completed. Search facilities for the whole of the UKOLN site have been developed and are under evaluation.

## Staff

Philip Hunter and Bernadette Daly co-edit Ariadne and provide web support and development services. Tracy Gardner, a PhD student based in the Mathematics Department of the University, is supporting the ISG group on a part-time basis, programming dynamic site structures for the UKOLN web service. The Information Services Group works closely with the Systems and Technical Development Group, and is co-ordinated by Brian Kelly.

## Events Management

The following events have been organised throughout the year on behalf of UKOLN and JISC, who provide additional funding for this service.

25-28 September 1997	Training for Change: New skills for the electronic library The 11th UK-Nordic Conference organised by UKOLN on behalf of the British Library Research & Innovation Centre and NORDINFO, York
23 October 1997	JISC Copyright Seminar: Facing the Legal Challenges, Loughborough
5-6 February 1998	MODELS 6 Workshop: A Distributed National Electronic Resource? Bath
7-8 May 1998	MODELS 7 Workshop: The MODELS Information Architecture (MIA) Deployment, Bath

8 May 1998	RDF Briefing Session, Bath
29 June - 1 July 1998	UKOLN: conference Information Landscapes for a Learning Society Networking and the future of libraries 3, Bath

## Staff

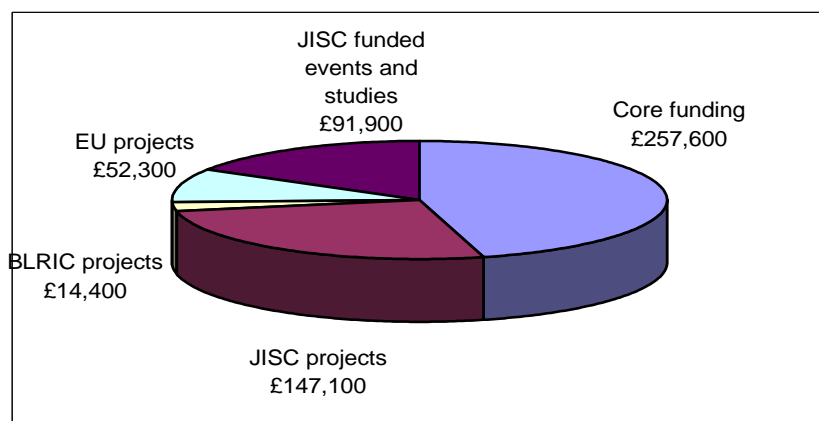
Events are organised and managed by Hazel Gott with assistance from Birgit Kongialis.

## UKOLN funding

Over the last few years UKOLN has diversified its funding base, a trend that is likely to continue. This section summarises UKOLN's sources of income and outlines how its funds are spent.

### Breakdown of current funding

The following shows the breakdown of UKOLN income for the period (April to March) 97/98.



### Explanatory notes

#### Core

UKOLN core activities are funded by the BLRIC and JISC. This funding supports UKOLN's, distributed library systems, public library networking and bibliographic management work. In addition, it supports the Director, as well as some information services work, some promotional activities and administrative support. Funding of core activities has been agreed with BLRIC, to July 2001, and with the JISC, to July 1999.

## BLRIC Projects

The WebWatch project has been funded by the BLRIC. UKOLN received a small amount of additional funding to support technical effort for the Stories from the Web project. The BLRIC and JISC have recently agreed to jointly fund the Interoperability Focus. This post will have a consensus-building and co-ordinating role throughout the community.

## JISC Projects

Work on the ROADS and NewsAgent projects is supported by JISC through the Electronic Libraries Programme. UKOLN receives additional funding from JISC for the post of UK Web Focus and for the partial funding of the Web Officer, and Events Manager posts. Work has recently started on the AGORA project. This is a 'hybrid' library project, funded by JISC. UKOLN is part of the AGORA consortium.

## EU Projects

During this period, work continued on the two EU funded projects – BIBLINK and DESIRE. Work will shortly commence on a further two EU projects, PRIDE and EXPLOIT.

## Events and studies

UKOLN manages a range of events and studies for its funding bodies. The figures here represent fees for authors, hiring venues, travel, etc.

## Core Income and Expenditure

### 1 April 1997 to 31 March 1998

	Expenditure (£)	(%)
Staff costs	214,100	81%
Travel and subsistence	10,300	4%
Recurrent	23,100	9%
Non-recurrent	17,400	7%
<b>Total</b>	<b>264,900</b>	<b>100%</b>

The following continuation of core funding has been agreed:

	August to July (£)			
	98/99	99/00	00/01	Total
BLRIC	137,500	161,200	158,700	457,400
JISC	144,500			
<b>Total</b>	<b>282,000</b>			

*Note:*

The BLRIC award for 00/01 is greater than that for 99/00 as it has been agreed to defer an amount from the 98/99 award to the following year.

Full details of income and expenditure during this year have been submitted to our funding bodies in accordance with their conditions of grant.

## **Publications, presentations, committees, visitors**

UKOLN has extensive communication and dissemination channels nationally and internationally and staff contribute to the community through membership of a wide range of influential committees.

A special issue of the *Journal of Documentation* will be devoted to UKOLN work. This is in preparation for publication in early 1999.

A selective list of publications, presentations and committee memberships follows.

### **Publications**

#### **Ann Chapman**

Record supply for UK imprint. *Library Association Record*, Vol.100 (7), July 1998, pp. 364-365.

*Bibliographic record provision in the UK: measuring availability against demand*. Bath: UKOLN, 1998.

#### **Sally Criddle**

Information Landscapes for a Learning Society: UKOLN conference report. *Ariadne* (web version) Issue 16, July 1998 (with Rosemary Russell and Sarah Ormes).

Resurrection: a new life for public libraries. *Ariadne* (web version) Issue 16, July 1998.

An Internet Open Day. *Ariadne* (web version) Issue 14, March 1998.

*New Library Briefing Pack*. London: The Library Association, 1998 (with Sarah Ormes).

A public libraries metadata initiative. *EARL News*, November 1997 and *Ariadne* (web version) Issue 11, September 1997.

## Michael Day

Sixth DELOS Workshop: Preservation of Digital Information, June 17 - 19, 1998, Tomar, Portugal. *D-Lib Magazine*, July/August 1998 (with Neil Beagrie.) <URL:<http://www.dlib.org/dlib/july98/07clips.html#DELOS>>.

Metadata: DELOS6 - Preservation of digital information. *Ariadne* (web version) Issue 16, July 1998 (With Neil Beagrie).

At the event: Electronic Access - Archives in the New Millennium. *Ariadne* (web version) Issue 16, July 1998.

Metadata: CrossROADS and interoperability. *Ariadne* (web version) Issue 14, March 1998 (with Rachel Heery and Andy Powell).

Format conversion feasibility. Deliverable D4.1 - Work Package 4 of Telematics for Libraries project BIBLINK, 15 September 1997 (with Rachel Heery, Robina Clayphan, Brian Holt and Neil Wilson.) <URL:<http://hosted.ukoln.ac.uk/biblink/wp4/d4.1/>>.

Metadata. *Library & Information Briefings*, 75. London: South Bank University, Library Information Technology Centre, September 1997 (with Rachel Heery and Andy Powell).

Online serials: preservation issues. *The Serials Librarian*, Vol. 33, No. 3/4, (1998), p. 199-221.

Online serials: preservation issues. In: Jones, W., (ed.), *E-serials: publishers, libraries, users, and standards*. Binghamton, N.Y.: Haworth Press, 1998, p. 199-221.

## Lorcan Dempsey

The Emergence of Distributed Library Services: A European Perspective. *Journal of the American Society for Information Science*, 49(10), 1998, pp. 942-951, (with Rosemary Russell and Robin Murray).

Managing access to a distributed library resource. *Program*, 32(3), 1998, pp. 265-281, (with Robin Murray, Rosemary Russell, and Richard Heseltine).

Metadata: a current review of practice and issues. *Journal of Documentation*, 54(2), March 1998, pp. 145-172, (with Rachel Heery).

Places and spaces. In: *Towards the digital library: the British Library's Initiatives for Access programme*. Edited by Leona Carpenter, Simon Shaw and Andrew Prescott. London: British Library, 1998, pp. 234-241.

In at the shallow end: metadata and cross-domain resource discovery. In: *Discovering online resources across the humanities: a practical implementation of the Dublin Core*. Edited by Paul Miller and Daniel Greenstein on behalf of the Arts and Humanities Data Service and the UK Office for Library and Information Networking. Bath: UKOLN, 1997, (with Rosemary Russell and Rachel Heery).

Crossing the great divide: integrating access to the scholarly record. In: *Discovering online resources across the humanities: a practical implementation of the Dublin Core*. Edited by Paul Miller and Daniel Greenstein on behalf of the Arts and Humanities Data Service and the UK Office for Library and Information Networking. Bath: UKOLN, 1997, (with Daniel Greenstein).

Metadata and libraries: background and introduction. In: *Second international summer school on the digital library*. Jola Prinsen and Elsenoor Meijer (eds). Tilburg: Ticer B.V., 1997, p. 8.1-8.9.

Soul and song: New library: the people's network. *Ariadne* (web version) Issue 12, November 1997.

Net failings that drive the desire to be digital. A review of International Journal on Digital Libraries. *The Times Higher Education Supplement*, October 10 1997. Multimedia section VII.

### **Rachel Heery**

Metadata: CrossROADS and interoperability. *Ariadne* (web version) Issue 14, March 1998 (with Michael Day and Andy Powell).

What Is ... RDF? *Ariadne* (web version), Issue 14, March 1998.

Metadata: a current view of practice and issues. *Journal of Documentation*, 54 (2), March 1998, pp. 145-172 (with Lorcan Dempsey).

Naming names: metadata registries. *Ariadne* (web version) Issue 11, September 1997.

Metadata. *Library & Information Briefings*, 75. London: South Bank University, Library Information Technology Centre, September 1997 (with Andy Powell and Michael Day).

Format conversion feasibility. Deliverable D4.1 - Work Package 4 of Telematics for Libraries project BIBLINK, 15 September 1997 (with Robina Clayphan, Michael Day, Brian Holt and Neil Wilson.) <URL:<http://hosted.ukoln.ac.uk/biblink/wp4/d4.1/>>

In at the shallow end: metadata and cross-domain resource discovery. In: *Discovering online resources across the humanities: a practical implementation of the Dublin Core*, ed. P. Miller and D. Greenstein. Bath: UKOLN on behalf of the Arts and Humanities Data Service, 1997, pp. 63-71 (with Lorcan Dempsey and Rosemary Russell).

### **Philip Hunter**

Ariadne and Exploit-Mag: web review and European Library Telematics". Powerpoint Slides. Published in: *FEMIRCS '97: Activities in Science and Technology in CEEC towards European Integration.*, Warsaw: OPI [Information Processing Centre/State Committee for Scientific Research], February 1998.

International FEMIRC Conference, Warsaw. *Ariadne* (web version) Issue 13, January 1998.

Review of: Mark Kerr's Web Publishing: Introduction to HTML. *Ariadne* (web version) Issue 12, November 1997.

### **Brian Kelly**

What Is XML? *Ariadne* (web version) Issue 15, May 1998.

WWW7: The Seventh International World Wide Web Conference *Ariadne* (web version) Issue 15, May 1998.

Web Focus Corner: Animate Your Web Pages. *Ariadne* (web version) Issue 14, March 1998.

Web Focus Corner: The World Wide Web Consortium. *Ariadne* (web version) Issue 13, January 1998.

Web Focus Corner: WebWatching UK Universities and Colleges. *Ariadne* (web version) Issue 12, November 1998.

Web Focus Corner: Running An Institutional Web Service. *Ariadne* (web version) Issue 11, September 1998.

Beyond Browsing and Authoring: Future Developments on the Web. In: *The Internet in 3D* London: Academic Press, 1997.

### **Sarah Ormes**

Information Landscapes for a Learning Society: UKOLN conference report. *Ariadne* (web version), Issue 16, July 1998 (with Rosemary Russell and Sally Criddle).

Down Your Way. *Ariadne* (web version), Issue 16, July 1998.

Internet Services in Danish Public Libraries. *Journal of Librarianship and Information Science*, 30 (2), June 1998.

Elvis is alive and well and selling library management systems in Kansas City. *Ariadne* (web version) Issue 15, May 1998.

*New Library Briefing Pack*. London: The Library Association, 1998 (with Sally Criddle).

Ask A Librarian. *Ariadne* (web version) Issue 13, January 1998.

### **Ian Peacock**

Showing Robots the Door. *Ariadne* (web version) Issue 15, May 1998.

Robot Seeks Public Library Web Site. *Library Association Record*, December 1997.

WebWatching UK Universities and Colleges. *Ariadne* (web version) Issue 12, November 1997.

### **Andy Powell**

Resolving DOI Based URNs Using Squid: An Experimental System at UKOLN. *D-Lib Magazine*, June 1998 <URL: <http://www.dlib.org/dlib/june98/06powell.html>>.

CrossROADS and Interoperability *Ariadne* (web version) Issue 14, March 1998 (with Rachel Heery and Michael Day).

An idiot's guide to Dublin Core. *New Review of Information Networking*, volume 3, 1997, pp.157-164.

Metadata. *Library & Information Briefings*, 75. London: South Bank University, Library Information Technology Centre, September 1997 (with Rachel Heery and Michael Day).

### **Rosemary Russell**

The Emergence of Distributed Library Services: A European Perspective. *Journal of the American Society for Information Science*, 49(10), 1998, pp. 942-951, (with Lorcan Dempsey and Robin Murray).



Information Landscapes for a Learning Society: UKOLN conference report. *Ariadne* (web version), Issue 16, July 1998 (with Sally Criddle and Sarah Ormes).

Managing access to a distributed library resource. *Program*, 32(3), July 1998.

Standards for serials: building the basis for distributed access. *Serials*, 10 (3), November 1997, 357-364.

Towards new models for managing and accessing serials resources. *Managing Information*, 4 (8), October 1997, 37-39.

UKOLN MODELS 4: evaluation of cross-domain resource discovery. In: Daniel Greenstein and Paul Miller (eds) *Discovering online resources across the humanities*. Bath: UKOLN (on behalf of the Arts and Humanities Data Service and the UK Office for Library and information Networking), 1997, 18-21.

### **Isobel Stark**

Down your Way. *Ariadne* (print and web version) Issue 13, January 1998.

View from The Hill. *Ariadne* (print and web version) Issue 12, November 1997.

At the Event: History. *Ariadne* (web version) Issue 12, November 1997.

Interface. *Ariadne* (print and web version) Issue 11, September 1997.

Down Your Way: Queen's University Library. *Ariadne* (print and web version) Issue 11, September 1997.

## **Presentations**

### **Ann Chapman**

*The currency and quality of bibliographic records*. 2nd Northumbria International Conference on Performance Measurement in Libraries and Information Services, 7-11 September 1997, Longhirst Hall, Northumberland.

### **Sally Criddle**

*Putting Imagination Online: Public Libraries, the Internet and Literature*. Reading for Life Conference, Arts Council, 21 April 1998 (with Sarah Ormes).

### **Michael Day**

*Metadata focus in BIBLINK*. BIBLINK Review, Luxembourg, 2 October 1997.

*ROADS: metadata for resource discovery and interoperability*. MetaData: qualifying web objects, Osnabrück, 13-15 October 1997.

*Metadata developments in the library community*. Digital workflow through production and documentation: a seminar organised by the Documentation Commission of FIAT/IFTA, London, 7-8 May 1998.

*CEDARS: digital preservation and metadata*. 6th DELOS Workshop: Preservation of Digital Information, Tomar, 17-19 June 1998.

*UKOLN metadata projects. (Metadaten - neue Perspektiven für die Erschließung von Netzpublikationen in Bibliotheken)* META-LIB-Workshop, Göttingen, 22-23 June 1998.

### **Lorcan Dempsey**

*All that digital library stuff.* BLCMP Users' Group Conference. Birmingham, 1-3 July, 1998.

*Moving towards distributed environments for library services.* Information landscapes for a learning society: networking and the future of libraries 3. University of Bath, 29 June-1 July, 1998.

*Reflections on the Distributed National Electronic Resource.* JIBS User Group workshop, Milton Keynes, 1 June 1998.

*The Information Society: networking and public libraries.* Access and support for all: seminar to commemorate the 50<sup>th</sup> anniversary of An Chomhairle Leabharlanna (Library Council), Dublin, 12 May 1998.

*The Distributed National Electronic Resource.* MODELS workshop 7, Bath, 7-8 May, 1998.

*Metadata and the emergence of distributed library systems.* LAITG Scotland seminar. Glasgow Caledonian University, 17 March 1998.

*Distributed services and hybrid libraries.* eLib Hybrid Libraries concertation day. London, 10 March 1998.

*New Library: process and evolution.* Connecting Wales: a seminar organised by the Welsh Library Association. WDA, Swansea, 11 February 1998.

*The MODELS Information Architecture.* Towards a distributed national electronic resource? MODELS workshop 6, Bath, 4-5 February 1998.

*Dublin Core: a tutorial.* Workshop in Luxembourg organised by DGXIII, Luxembourg, 1 December 1997.

*The hybrid library: towards a cross-domain agenda.* Digital resources in the humanities 97, St. Anne's College, Oxford, 15-17 September, 1997.

*Metadata and libraries: background and introduction.* Second International Summer School on the Digital Library, University of Tilburg, the Netherlands, 14 August 1997.

### **Rachel Heery**

*The metadata landscape.* Computing Laboratory Seminar, University of Kent at Canterbury, 24 February 1998.

*Position paper.* EU-NSF Working Group on Metadata, Coalition for Networked Information, Washington DC, 2-3 February 1998.

### **Philip Hunter**

*Ariadne and Exploit-Mag: web review and European Library Telematics.* FEMIRCS 1997, Warsaw, 4-6 December 1997.

## **Brian Kelly**

*WWW 7 Conference Report.* University of Manchester, 6 July 1998.

*Standards, the Web and eLib projects.* eLib Project Managers Forum, Warwick University, 8 July 1998.

*WWW 7 Conference Report.* University of Bath, 8 June 1998.

*WWW 7 Conference Report.* University of Bristol, 3 June 1998.

*What Is RDF?* UKOLN/eLib seminar, What Is RDF? Stakis Hotel, Bath, Friday 11 May 1998.

*WWW 7 Conference Report.* UMI - Use of MANs Initiative meeting (video-conference), Monday 11 May 1998.

*Web Futures.* UCISA-TLIG Conference on New Opportunities: Information Services for the Next Millennium, Southampton University, 30 March-1 April 1998.

*WebWatching the UK HE community.* Workshop, UCISA-TLIG Conference on New Opportunities: Information Services for the Next Millennium, Southampton University on 30 March-1 April 1998.

*The Latest Web Developments.* IRISS 98 conference, Bristol on 25-27 March 1998.

*Technical Issues for Use of Personal Data on the Internet.* UCISA-MISG Data Protection Briefing Day, 24 March 1998.

*Technical Threats to Copyright & IPR.* Talisman Seminar on Legal Risks on the Internet, University of Strathclyde and (via videoconference) Northern College, Aberdeen, Wednesday, 21 January 1998.

*Web Developments For The JANET Community.* London JANET Regional User Group meeting, ULCC, 13 October 1997.

*Web Developments For The JANET Community.* South West JANET Regional User Group meeting, University of Bath, 8 October 1997.

*Standards in a Digital World: Z39.50, HTML, Java: Do They Really Work?* LIST 97 conference, in conjunction with LibTech 97, University of Hertfordshire, 11 September 1997.

*Providing Information on the Web.* LAITG workshop, LibTech 97, University of Hertfordshire, 10 September 1997.

*Advances in Web Technologies.* JANET User Support Workshop, King's College London, 9-11 September 1997.

## **Sarah Ormes**

*Possible ways forward.* People Flows project workshop, University of Central England, 17 July 1998.

*Putting Imagination Online: Public Libraries, the Internet and Literature.* Reading for Life Conference, Arts Council, 21 April 1998 (with Sally Criddle).

## **Ian Peacock**

*WebWatching the UK: Robot software for analysing UK web resources.* Networkshop 26, University of Aberdeen, 31 March - 2 April 1998.

*Web Developments for the Janet Community.* London JANET Regional User Group Meeting, ULCC, 13 October 1997.

*Web Developments for the Janet User Community.* South West JANET Regional User Group Meeting, University of Bath, 8 October 1997.

## **Andy Powell**

*Metadata for the Web - RDF and the Dublin Core.* UKOLUG 20th Conference, Manchester Conference Centre, 15 July 1998.

*Identifiers in Context.* EC DOI Workshop, Luxembourg 20 May 1998.

*Metadata for the Web.* Parallel session - TLIG 1998, University of Southampton, 31 March 1998

*Metadata tutorial.* Metadata Workshop - Luxembourg, 1 December 1997 (with Lorcan Dempsey).

*Metadata.* Internal staff presentation - Swiss National Library, Bern, September 1997.

*Metadata.* Library Science Talks - CERN, Geneva, September 1997.

## **Rosemary Russell**

*Z39.50 update.* eLib project managers forum, University of Warwick, 8 July 1998.

*eLib clump projects and Z39.50.* Interlend 98 - Forging links (Forum for Interlending conference). University of Surrey, 23-25 June 1998.

*MOving to Distributed Environments for Library Services. Scope for collaboration: implementing archives and library networks.* University of London, 18 June 1998.

*MODELS - where we are now. A distributed national electronic resource.* MODELS workshop 6, Bath, 5-6 February 1998.

*MODELS architecture.* eLib phase 3 meeting with library systems suppliers, London, 20 January 1998.

*MODELS and Z39.50 profile development.* EFILA meeting. Brussels, 20 November 1997.

*Networking and MODELS.* South Western Regional Library System seminar. Bath, 23 October 1997.

*Z39.50: what's it all about?* ASLIB Computer Group Meeting: Z39.50 in practice. University College London, 20 October 1997.

*Collection level description: facilitating distributed resource discovery.* Digital Resources in the Humanities 97 conference, University of Oxford, 14-17 September 1997.

## **Committees**

### **Ann Chapman**

- BIC Bibliographic Standards Technical Sub-Group.
- LASER working party on ILL for Non Book Materials.

### **Lorcan Dempsey**

- Library and Information Commission International Sub-committee
- Dublin Core Policy Advisory Committee
- Public Record Office Finding Aids Board
- BIC (Book Industry Communication) working party on digital information
- New Library: The People's Network working group
- EARL Management Board
- Information for All board of directors
- EDINA Steering Committee
- Espere Steering Committee (CEI representative)
- Visual Arts Data Service Advisory Group
- Oxford Text Archive Advisory Group
- CEDARS Advisory Board
- Member of steering/executive committee of AGORA and NewsAgent
- BSI DOT/7
- DISC Business Strategy Group

#### Editorial boards

- New Review of Information Networking, 1993- (founder editor)
- *Program*, 1991-
- Public Access Computer Systems Review, 1992-
- Co-director of *Ariadne*, 1996 -

### **Rachel Heery**

- Dublin Core Technical Advisory Committee
- ROADS Management Committee

### **Brian Kelly**

- Netskills Advisory Committee
- JISC Standards Subcommittee
- JISC Mirroring Working Party
- DISinHE Steering Committee

### **Sarah Ormes**

- LIC Public Library Networking Plan Working Group, sub group on content
- Steering/advisory group for Stories from the Web and People Flows
- Society of Chief Librarians Public Library Research Group
- Needs Assessment of Heritage Material and Collections Steering Group
- CIPFA Committee on Public Library Statistics
- CIRCE Management Committee
- EARL Policy Taskgroup

### **Andy Powell**

- Dublin Core Technical Advisory Committee
- Campus Information Services Group, University of Bath (Chair)
- University of Bath Information Services Committee

### **Rosemary Russell**

- CAIRNS Advisory Group
- RIDING Steering Group
- British Library Digital Library Research Advisory Panel

## **Selective list of visitors**

19-09-97	Sheila Corral, University Librarian, University of Reading
19-09-97	John MacColl, Assistant Head Information Services, University of Abertay, Dundee/Project Director, Ariadne
07-10-98	Colin Campbell, Assistant County Librarian, Gloucestershire County Libraries
09-10-97	Susi Woodhouse, Development Manager, Membership & Shared Services, EARL
24-10-97	Michael Long, Manager, Information North
24-10-97	Lyndon Pugh, Managing Editor, Ariadne
07-11-97	Michael Feith, Springer

19-11-98	Alison Chilvers, Loughborough University
27-11-97	Shelagh Fisher, CERLIM
05-12-97	Niall Mackenzie, Project Co-ordinator, Stories from the Web
08-12-97	Alan Stevens, DISC
08-12-97	Verina Horsnell, UK Group Manager, Digital Equipment Company Limited
08-01-98	David Haynes, David Haynes Associates
13-01-98	Mark Field, Library Association
23-01-98	Helen Leech, CIRCE Project Officer
23-01-98	Norman Wiseman, Head of Programmes, JISC
05-03-98	Professor Nicolai Katenov, Russian Academy of Sciences
26-03-98	Nancy Fjällbrant, Chalmers University of Technology, Sweden
06-05-98	Shigeo Sugimoto, University of Library and Information Science, Japan
13-05-98	Torhild Larsen, Agricultural University of Norway
20-05-98	David Spiller, LISU
22-05-98	Guy Lamming, Goldman Sachs
29-05-98	Fiona O'Brien, Learning Libraries Co-ordinator, BBC Education
01-06-98	Ivana Pellicoli, Librarian, Alzano Lombardo, Italy
12-06-98	Lucy Tedd, University of Aberystwyth
17-06-98	Peter Cox, BBC Resources