



# a Handbook for Media Librarians



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EDITED BY Katharine Schopflin

# a handbook for media librarians

edited by **Katharine Schopflin**



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# Contributors

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**Katy Heslop** joined the research department of the *Guardian* and *Observer* in 2000 as a trainee librarian. After graduating from the MSc Information Science course at City University in 2002, she returned to the *Guardian* as a researcher. She is deputy editor of ResearchNet, the library intranet, and manages the library team that helped to develop the Guardian and Observer Digital Archive.

**Colin Hunt** entered librarianship as a branch library junior in Liverpool in 1963. After qualifying as a Chartered librarian he held a number of specialist posts in public and industrial libraries. He joined the *Liverpool Daily Post and Echo* in 1973 where, as Head of Library Services, he has at various times had responsibility for exhibitions, photosales and special publications. He has written several books on Merseyside and co-authored

or researched many more; he has lectured on news librarianship at both Liverpool John Moores and Manchester Metropolitan universities. For relaxation he plays blues guitar at any venue that will book him. He has a grown-up family and lives on Wirral.

**Linda MacDonald** graduated with an MSc in Information and Library Studies in 2000. In 2002, after 18 months as information officer at the Institute of Practitioners in Advertising, she joined the *Guardian* and *Observer's* research department as a news researcher. She is also editor of the department's intranet and manages content on Guardian Unlimited's Freedom of Information site. She is a Chartered librarian and has been events organizer for the Association of UK Media Librarians since 2006.

**Joanne Playfoot** did a BA Library and Information Studies course at the University of Brighton, graduating in 1998. She joined London listings magazine *Time Out* magazine in the same year as a library trainee. In 1999 she moved to IPC Magazines progressing from the post of information assistant, to information officer and becoming library and research manager in 2005.

**Katharine Schopflin** has worked for the BBC and ITN Source. A media librarian with ten years' experience, she was the Chair of the Association of UK Media Librarians (AUKML) between 2005 and 2007. She regularly contributes articles to the professional information press and is currently working on a part-time research degree at University College London's School of Library, Archive and Information Studies.

**Hazel Simpson** has been with the BBC's Information & Archives department since 1988. Her work has covered television, news, sound and written archives as a cataloguer and a researcher. She has been studying with the Open University since 2001 and hopes that by the end of 2008 she will possess a BA (Honours) in Humanities with History of Science and Technology.

**Ian Watson** was Information Services Manager and Head of Rights and Information with Glasgow's *Herald* and *Evening Times* newspapers under three ownership regimes between 1994 and 2006. He is currently Knowledge and Information Manager with the Scottish Institute for Excellence in Social Work Education. He was chair of the Association of UK Media Librarians (AUKML) between 2001 and 2003.

# Chapter 1

## **Media libraries in the 21st century**

KATHARINE SCHOPFLIN

*The purpose of this book is to explore the main issues facing information workers employed by media organizations, that is, broadcasters and publishers of newspapers, magazines and websites. Each chapter examines an issue that librarians, archivists, cataloguers, researchers and other information professionals are likely to face in their working life, with chapters written by practitioners who have faced these problems themselves. The aim is to spread knowledge acquired through practical experience to help solve and prevent problems as they arise. 'Media librarian' in this book does not refer to those looking after multimedia collections in public or academic libraries, although some of the issues discussed may be useful to them. In addition, although controversial among practitioners, the author uses the term 'media librarians' to refer to all who carry out information work for media organizations (although their actual job title may be 'Researcher', 'Media Manager' or 'Information Manager', for example) for historical reasons, for convenience and because she has never considered libraries to be exclusively collections of books.*

*Media librarians have a low profile in the information profession and among their employers. Academic, legal and public librarians are often intrigued to discover that some of their peers work for the same people who provide their television programmes and daily newspaper. Journalists write articles perpetuating the idea that libraries are dusty book collections run by stern ladies with date stamps, unaware that the people who provided their newspaper database or background research are part of this profession.*



*Yet media companies, producing vast quantities of content in an increasing variety of formats, need people both to help them fill up column inches, pages or hours, and to organize this content afterwards so that it can be found again. The profession offering the best skills to meet that need is librarianship and information services. Librarians are the specialists in connecting people who work in media companies with the items they need to do their jobs and putting it where they can find it again. Although unlikely to be called librarians or, in the 21st century, to be working in a room called 'the library', information professionals continue to carry out this task for media organizations throughout the world.*

## **A short history**

The media librarian's role has changed significantly since the days of newspaper 'morgues' - cuttings collections filed by subject and personality by clerical staff, where reluctant trainee journalists often had to spend a few months before being allowed to write their first stories. In the 1980s they were among the earliest adopters of online databases, in those days dial-up connections to news databases such as FT Profile. It was during these years that the sector sought to professionalize itself and, for the first time, the news library employee became as likely to have graduated from library school as to have arrived in the company as a 16-year-old clerk.

In the late 1990s online databases began to be accessible through the world wide web. Being able to search via the company intranet was a time-saving boon to librarians, but the databases were now also available to journalists and programme-makers directly. Because end-users now had direct access to information sources previously only searched by librarians, the latter lost their role as gatekeepers and intermediaries between their users and their research resources. Although new roles associated with online research appeared, such as training, subscription management and web content management, many librarians found it a struggle to keep those roles within the library. It was harder still to justify the existence of mediated researchers and prove that they had special skills not held by their customers who, after all, tended to be journalists who prided themselves on their research skills.

The results of these changes varied from organization to organization. In some cases, managing and controlling subscriptions, catalogues and research intranets raised the library's profile, made them seem relevant to younger journalists and even resulted in an increase in enquiry numbers

(various examples are given in Schopflin and Nelsson, 2007). In others, the fact that journalists and programme-makers could access research tools without using the library convinced many managers and budget-owners that specialist staff were no longer needed. The same issues began to affect those managing audiovisual collections. Once programmes began to be created on servers in the newsroom and accessible online, it appeared to senior management that specialist film researchers were unnecessary and even programme metadata could be added by the programme-makers themselves. In some organizations the role of the archive was reduced to managing the retrieval of pre-digital legacy formats.

Despite the best efforts of many library managers to convince their paymasters of the value of skilled professional staff, a depressing number of units closed in the late 1990s and early 2000s. Those that survived did so through a mixture of communication, diversification and, especially, promotion. Classic methods, such as posters and leaflets, becoming part of the company induction and holding 'brown bag lunches' proved useful to many. For others training journalists and programme-makers in the use of online databases provided a showcase for library skills. As one veteran media librarian noted, 'journalists are prepared to wade through pages of drivel rather than ask for help' (Dunn, 2005). Demonstrating search methods and how to evaluate and choose research sources was one means of showing users that they were not as accomplished in online searching as they thought. Moreover, such sessions became a means of publicizing collections which were not available to the end-user, such as newspaper cuttings archives or periodical collections. One media librarian noted an increase in enquiry numbers after databases were rolled out to end-users as they used induction sessions to promote the range of their services and holdings, of which many journalists were unaware (Schopflin and Nelsson, 2007).

Like most workplace libraries, media libraries were also subject to changes affecting their parent organizations. The media industry was particularly hard-pressed in the 1990s and early 2000s by globalization, deregulation, the challenges of maintaining advertising income in a time of proliferation of new media, conglomeration and cuts to the public sector. In the early 2000s, commercial media organizations perceived themselves to be in crisis following 'the worst advertising recession in 30 years' (Cassey, 2002). Public sector organizations (for example the British Broadcasting Corporation, BBC) faced different pressures, finding it difficult

to justify public funding as their audience fragmented, both to increasing numbers of other television channels, and to new activities presented to consumers, for example by video recorder and internet.

Global newspaper circulation was in long-term decline (Greenslade, 2003) and publications feared competition from the world wide web. One journalist remarked that 'as the amount of information available online explodes, papers will inevitably face a losing fight to hold on to readers' (Greenslade, 2003). Conglomeration, particularly among regional newspapers and commercial broadcasting, gave large media companies the opportunity to merge and downsize departments and make many staff redundant. In the face of this insecurity, the library and information unit was the most vulnerable part of the organization, particularly where the perception was held that new technology meant library skills were no longer needed.

The late 2000s are without doubt an interesting time for media librarians. But despite the challenges the profession faces in convincing broadcasters and publishers that their skills are vital to the authority, depth and quality of their output, repeated predictions of the death of the media library have been exaggerated. Media channels proliferate interactive and portable formats, needing well researched content and to be made accessible in the future. Although financial managers will always attempt to cut the cake of human capital in new ways in the hope that they can save on headcount, research and archiving remain necessary. Many are realizing that perhaps the most efficient and cheapest way to accomplish it is to pay information professionals to carry it out. Those library and information units that survive and flourish are those which have spread this message to the people who matter within their organizations.

### **Characteristics of media libraries**

Information work in the media industry is centred around two main areas. First, librarians help provide content for what is published or broadcast by their parent company. This might be fact-checking, in-depth information research, providing research sources online, finding archive pictures or clearing stills for use. Second, they help to process, maintain and organize what is produced by the organization, so that this material can be found again and possibly commercially exploited. All media organizations require these tasks to be carried out. What varies is how much is given to

information-related departments, how much to journalists and programmers, how much to administrative staff and how much is outsourced.

## The working environment

Media libraries and information units bear little resemblance to the traditional idea of the library. Like many corporate libraries, they have been under pressure to give up precious office space and it is rare to see a media library today with many paper-based holdings. Those concentrating mainly on research are likely to have some reference books either not available online or more economically purchased in hard copy. Magazine and broadcasting libraries often stock periodicals not available through commercial databases or which may be used for reference or rostruming (that is filming for television broadcast). However, the vast majority of media libraries look like every other office in the building. Even those professionals managing the tape archives belonging to broadcasting organizations are under pressure to store non-essential items off site and are normally based in basements and other unglamorous areas of their company's offices.

As with other corporate research units, media libraries primarily carrying out enquiry work are noisy, busy places. Even where the bulk of enquiry work is done by e-mail, or the main tasks are cataloguing, it is rare to encounter a 'library hush' in a media organization. Most media librarians are accustomed to working to very tight deadlines, often matters of minutes where some information or archive may be needed for immediate transmission. This can lead their users to have unrealistic expectations when they use specialist libraries primarily catering to the research and academic communities. Because of publication or transmission requirements, media libraries are often staffed at odd times of day. Today only a few news research units are open 24 hours a day, seven days a week, but even those that offer users a reduced number of hours of research backup will be open at weekends and evenings if this is useful for their deadlines. Information units archiving, cataloguing or indexing content for newsrooms may also run seven-day operations so that published or broadcast material can be reused or sold on as soon as possible.

Most media library jobs are within the commercial sector. Whereas the legal business information communities have academic and professional libraries in addition to corporate information units within individual organizations, there is no public sector equivalent for media libraries (as

currently defined). This means there is no centre of excellence operating as a knowledge- or skills-base outside the commercial sector. Admittedly, the UK's one public-sector employer of media librarians, the BBC, employs the largest number of people carrying out information work in the sector (as might be expected for a multi-channel, multimedia 24-hour broadcaster). However, its stated aims are to broadcast and produce radio and television programmes and web and interactive content to public sector standards. This does not mean that professional work is required to be of the highest standard across the board. Indeed, information services are seen as an overhead, diverting money from the core activity of broadcasting.

### **Media library users**

Corporate libraries take their character from their parent organization and users of information services differ considerably depending on whether they practise law, industrial research, property management, high finance, charitable activities or any number of commercial or public services. The largest group of users of media library services are journalists and broadcasters and, although clearly there are huge variations from organization to organization, those who are attracted to such jobs can be characterized as being creative rather than analytical or introspective. The task of assembling research materials tends to be carried out by those at a more junior level, by staff who are often young, inexperienced and still learning to cope with pressure from superiors. Media librarians need to accustom themselves to brusque treatment and an inexperienced approach to knowledge-seeking from their customers. However, the creative community also includes people with huge amounts of subject or technical knowledge and it is often they who are the most appreciative of what information professionals are capable of (even if they do not quite understand it). The author has written more on the users of media libraries in the Association of UK Media Librarians (AUKML) newsletter *Deadline* (Schopflin, 2005).

### **Types of media library**

#### **Newspaper and magazine libraries**

Most of the larger newspaper groups had a library at one point although many have been closed or downsized. The remaining libraries vary from large units supporting prestigious daily or weekly titles (in the UK, examples

are held at the *Guardian* or News International) to individuals working solo for small local papers, many part of large media groups (regional newspapers in the USA and the UK are controlled by a very small number of companies). Their work is generally divided into four areas: information research, archiving newspaper content for in-house use or sale to news aggregation services, managing stills collections (whether sourcing and licensing commercial stills or managing an archive possibly including items whose copyright is owned by the newspaper) and managing subscriptions for the newsroom to use. Other responsibilities include compiling in-house specialist information sources, current awareness monitoring and training end-users on the use of subscription or in-house databases. Few units carry out the traditional task of classifying hard copy newspaper articles, as the vast majority of newspaper articles are retrievable from newspaper text databases. However, most have retained their cuttings archives for historical research and commercial exploitation.

Magazine libraries' activities cover much the same areas as newspapers: information research, archiving, subscription management and looking after stills collections. However, magazine content requires either more in-depth analysis (for current affairs magazines) or more lifestyle content (for consumer magazines). They may also require visually stimulating material such as graphics and stills, whose research or syndication may be carried out by library staff. Customer relationships in magazine-publishing organizations are likely to differ from those in newspapers as, rather than supporting teams producing primarily in-house content for a small number of daily or weekly titles, magazine libraries often provide services for hundreds of titles a month, each with different deadlines, covering a huge range of topics and in many cases operating more as commissioners than writers. Perhaps because of this, some magazine groups have never had information or research units. These organizations rely on a mixture of end-user databases and outsourcing to carry out their research and archiving tasks.

## Television libraries

Television organizations tend to have separate areas for information research and archives if, indeed, both areas are carried out by information professionals. Information research units are run much like units of newspaper publishers although they may be open for longer hours and offer a more diverse range of services. The main difference will be the requirement to

source newspaper and magazine articles for rostruming (filming), a small but important part of any television information researcher's job. Also significant is that in many cases the content produced by the organization may not be news, but lifestyle programmes, documentaries, music or even drama, all of which require slightly different sets of research priorities.

Any organization that produces broadcast content needs to keep and access it in some way so that content can be reused and resold. Every production or broadcasting company has someone looking after their footage (also known as 'media assets') for broadcast and reuse, even if this is an unpaid runner or intern. Formats covered might include film, videotape, server files or website plugins. The costs of storage and access mean that few television organizations keep all of the programmes they have made but most keep some. In the UK, broadcasters are required to keep all output for three months for legal reasons, something which is often carried out by library technical staff. Television and radio archives require technical work, storage, cataloguing and copyright licensing. They also need to find material for reuse or commercial exploitation. However, these tasks are increasingly carried out, to greater or lesser professional standards, by journalists or specialist researchers in the newsroom, the latter of whom may or may not identify themselves as information professionals.

Most large media organizations now own a variety of content platforms including newspapers, magazines, web services and broadcasting companies. However, they are often run as entirely separate companies (as with News International newspapers and British Sky Broadcasting, both owned by NewsCorp, or the various parts of the AOL-TimeWarner conglomerate). In other cases information services originally provided for newspapers or magazines changed when, for example, web services or book publishing were added to the company's portfolio. Another trend is that new departments appear, but their staff are unaware of the library, or not able to use it under existing service level agreements. It is rare, however, for an organization to redesign an information service completely in order to meet the needs of an expanded multimedia organization.

## **Media librarianship as a profession**

### **Media librarianship and the information profession**

In some ways, media librarians are among the least connected of all sectors to the wider information profession. Many who carry out research or

information-related activities do not identify themselves as information professionals at all. There are a variety of reasons for this. First, the traditional career trajectory of those in media libraries was to work as clerks cutting and filing articles (or reshelving tapes), then move on to classifying newspapers and answering enquiries, without spending an obligatory year studying librarianship. Although this has changed in some organizations, it is not uncommon for there to be no qualification requirement in media library job advertisements. This not only demotivates media librarians from becoming involved with the wider profession, but also helps to establish a culture whereby both staff and managers feel that wider professional skills and knowledge are irrelevant. Clearly this varies from unit to unit. Many media library managers are members of professional associations and are committed to allowing their staff to grow as skilled professionals rather than simply as staff. However, media library staff often struggle to be released for daytime training events or given the chance to attend external courses.

Furthermore, because of the perceived glamour of the sector and the shortage of jobs in the media industry, some see information work as an entrance route to the core creative activities of the organization rather than greater professional advancement. These people perceive librarians as subordinate to production staff or journalists (even if the latter are no better paid or graded). Ironically, the route from the library to the newsroom or production office has become more open in recent years. Now that journalists and programme-makers are expected to carry out some or all of their research themselves, and in many cases to provide their output with metadata or rudimentary cataloguing, organizational and research skills are more valued in end-user departments. However, the jobs themselves are designated as journalistic or production positions rather than information roles.

### **Career prospects**

At the time of writing there is no doubt that the pool of jobs in media information units is shrinking. As previously stated, media organizations have used financial pressures and new technologies as opportunities to reduce headcount. However, whereas in the early 2000s entire units were being closed for good, it is now more likely that individual posts may be lost and these can sometimes subsequently be claimed back. Moreover there are now roles in other parts of the organization, notably among researchers,



information architects and professionals working with metadata, who carry out roles requiring information skills. Whether the incumbents practise the roles to professional standards, or identify themselves (secretly or openly) as information professionals, is another matter.

A new entrant to the profession is less likely than otherwise to be joining something called a library or resembling the traditional idea of one. There remain a few large 24-hour or seven-day news research or cataloguing units, but the large teams of researchers who constituted the bulk of media librarians in the 1980s and 1990s are the exception rather than the rule in the 21st century. More often, teams of two or three professionals work in offices which may even be collocated with those of their customers. There are very few clerical positions available in any library and those that exist tend to be limited to stock retrieval in audiovisual collections and newspaper data archiving. In both cases there are increasingly fewer positions as demand is expected to shrink either through outsourcing or automation, or because of end-user online access to media assets. This means that most people start their media library careers carrying out professional jobs.

Because teams are smaller, there are fewer opportunities for promotion by the traditional route of managing staff. However, the purchasing and implementation of new technology gives rise to a significant number of project-related jobs (although in many cases the information unit's contributions will be given by existing staff in addition to their ordinary jobs). As previously mentioned, many information professionals now also move sideways to jobs on the production or journalistic side of the organization, something which was previously very rare. In production areas, there may be more upward mobility and the jobs are often better paid and of higher status (without requiring a greater degree of skill). There is, however, anecdotal evidence that information staff may have more job security and better working hours than those working in newsrooms and production offices.

## Salaries

Compared with many workplace libraries, the salary differential between media librarians and their users is less marked than, for example, in the legal and business sector. However, media librarians are in general paid less than information professionals working in legal or financial services companies or even for government departments. Although organizations'

pay policies vary, an entry level salary is likely to be similar to that of an academic library. Unlike academic libraries, the absence of specialist posts means earning potential is not as high. However, a media librarian is likely to earn more than their equivalents in art, museum and learned society libraries and, in many cases, than those in public libraries.

## Training

Because of the lack of professional recognition within media organizations, chartership and, in some organizations, even library qualifications are unnecessary. However, a library and information studies course is likely to give potential employees the best preparation for professional work in media libraries. In the UK there is only one course, at City University, which has a specific option in media librarianship. However, most recognized information courses will offer compulsory or optional modules that are useful.

A good grounding in research techniques, online and field searching and different information sources is essential for any information or archive research position. It is also important to demonstrate an ability to judge the authoritativeness of a particular source. Those working with audiovisual material often need cataloguing skills (although the principles are more important than any particular cataloguing system) and it will be particularly useful if the course covers the cataloguing of non-traditional materials. A film archiving course may be as appropriate as a librarianship degree for these positions. Trends change quickly in the information world. At the time of writing, any course that offers introductions to web design, information architecture or media asset management would make a candidate highly employable by media libraries. But it is worth remembering that any proprietary software used at university is likely to be very different by the time a student is employed to carry out this kind of work. Media librarians also need to have a good knowledge of current affairs and, increasingly, the world of showbiz and celebrities. In fact, an interest in these areas is a prerequisite for working in the sector and candidates are likely to be tested on this in job interviews.

Once in the workplace, media librarians often have few opportunities for training, as budgets are frequently tight and there are few opportunities to be released to attend courses. However, media librarians need to be aware of changes both in the profession and in the needs of the organization and wider industry, to constantly refresh and build on their skills to adapt to

the future needs of their employers (and those of future employers). Current skills and knowledge in demand include training end-users, writing for the web, following developments in media asset management, knowledge of copyright, and managing and negotiating contracts. Where in-house training is unavailable, professional associations and publications can fill the gap.

## Professional associations

The largest organization devoted to media librarianship is the News Division ([www.ibiblio.org/slanews](http://www.ibiblio.org/slanews)) of the US-based (but internationally focussed) SLA (Special Libraries Association), which represents librarians in the workplace sector (not working for public or academic libraries). SLA is a large and influential organization, which holds a highly regarded conference in the USA and carries out many other networking and information-sharing activities. Its News Division is considered to be among the more lively sections and without a doubt represents the world's largest body of media librarians (albeit with a slant towards hard news rather than the looser definition of media librarians). For those unable to pay SLA subscriptions, it is free to join the busy and informative News Division e-mail discussion list, NewsLib (<http://parklibrary.jomc.unc.edu/newsliblyris.html>), and they also have a blog (<http://newslib.blogspot.com>). In the UK, AUKML (the Association of UK Media Librarians, of which the current author is ex-chair; [www.aukml.org.uk](http://www.aukml.org.uk)) is a small, independent voluntary professional association with no corporate membership, but a range of professional activities available free to members. Like the News Division, AUKML publishes a newsletter and runs an e-mail discussion group.

As an alternative to specialized media librarian groups, or in countries where one does not exist, networking opportunities should be available through organizations representing the special or workplace sector of the information profession (the function performed by SLA in the USA). In the UK the main organization is the Commercial, Legal and Scientific Group (CLSG; [www.cilip.org.uk/specialinterestgroups/bysubject/iclg](http://www.cilip.org.uk/specialinterestgroups/bysubject/iclg)), one of the largest groups of the UK lead industry body, the Chartered Institute of Library and Information Professionals (CILIP). CLSG organizes a range of events aimed broadly at those carrying out information work in a business or commercial environment and has the financial and institutional backing of a fully staffed chartered association. It is possible to join CLSG without joining CILIP.

Other relevant associations are cross-sectoral organizations representing stills and audiovisual collections and their researchers. In the UK, these are FOCAL ([www.focalint.org](http://www.focalint.org)), which represents footage libraries and film researchers (especially those working freelance) and has an international presence, the Picture Research Association (PRA; [www.picture-research.org.uk](http://www.picture-research.org.uk)) and BAPLA, the British Association for Libraries and Pictures Agencies ([www.bapla.org.uk](http://www.bapla.org.uk)). In the USA, the lead body is the Association of Moving Image Archivists ([www.amianet.org](http://www.amianet.org)). There are also two important international organizations, the International Federation of Film Archives (FIAF; [www.fiafnet.org](http://www.fiafnet.org)) and the International Federation of Television Archives (FIAT; [www.fiatifta.org](http://www.fiatifta.org)). These organizations hold events attended by representatives of the world's major audiovisual collections in order to set policy and discuss new developments.

Less formal networking and information-sharing activities also take place in the media library world. There are a range of blogs aimed at keeping the profession up to date, with search resources (such as Gary Price's ResourceShelf, [www.resourceshelf.com](http://www.resourceshelf.com)) or with general issues of interests like the NewsLib blog and the Gaol House Blog (<http://gaolhouseblog.blogspot.com>). The largest single area of social networking in the media library world is the NewsLib discussion list. On this busy list research questions, matters of policy, new technology, and sources and items of general interest to those working in the sector are discussed; although it is a US-based organization, membership is international.

## Literature

There has been very little formal publication on the subject of media librarianship since Paula Hane's *Super Searchers in the News* (Hane, 2000) rounded up the essential online resources used by news researchers. The last general guide in English was respected US library academic Barbara Semonche's *News Media Libraries* in 1993 (Semonche, 1993). In 2006 the author collaborated on the media libraries chapter of the latest edition of the *Survey of British Library and Information Work* (Bowman, 2007). There has been more writing in professional journals, including not only association newsletters such as *Deadline* and *News Library News* but also articles in broader industry publications such as *Library + Information Update*, *Library Journal*, *American Libraries* and *Library and Information Science Research*. However, the greatest wealth of writing, and the most up-to-date survey of

the issues at the heart of the profession, are to be found in the archives of the News Lib e-mail discussion list.

### **Policy for media libraries**

Workplace libraries are subject to the whims and stresses of their parent organization and industry sector. It can therefore be difficult for them to formulate a policy which can be carried across different units within the sector. Attempts have been made: former AUKML chair Helen Martin has written about the early days of the Association, circa 1986, when the group acted as a think tank composed of information managers who could return directly to their library and implement policy decided at a committee meeting (Martin, 2004). It is far harder to achieve this against a background of organizational change and strictures. Moreover, the notion of what a 'media library' is has changed beyond recognition since those days. There is evidence that the SLA News Division has more success at laying down policy at the annual SLA conference ([www.ibiblio.org/slanews/conferences](http://www.ibiblio.org/slanews/conferences)).

However, media librarians at all levels implement policy every working day. Questions like 'What resource should I buy?', 'Shall I let this user borrow this item?', 'Is it ethical for me to answer that question?' or 'How can I describe this footage?' set policy and precedent every day. That they do not do it in a vacuum is a tribute to the professional networks, formal and informal, which connect the profession. Similar to most in the profession, media librarians like to share experiences and offer advice to their peers. It is the aim of this book to condense and synthesize some of this invaluable knowledge so that today's media librarians are equipped to face the issues that affect them every day at work.

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## Chapter 2

# **The virtual media library (I): managing intranets**

LINDA MacDONALD and KATY HESLOP

*As journalists have turned from ordering press cuttings files from their organization's library to accessing their information online, new roles have emerged for media librarians to apply their traditional research and organizational skills to the online world. This chapter intends to demonstrate the value of research intranets to media libraries and organizations, and provide library practitioners with an idea of best practice in terms of creating and maintaining such a resource. The authors are part of the Guardian's Research and Information Department; they were directly involved with the relaunch of their research intranet and are now responsible for its ongoing management.*

*The chapter examines what a research intranet is, the history of intranets in media libraries and how these have evolved to become resources used by leading media organizations. A successful research intranet depends on a number of factors, which range from content and design to user-testing and marketing. By demonstrating and assessing how specific media libraries are using and developing their intranets this chapter gives library practitioners guidelines about managing intranets and meeting user needs. The increasing sophistication of information technology and the rise of Web 2.0 applications offer greater opportunities to enhance intranet development. It is the authors' belief that, as media librarians, they are ideally equipped to take advantage of these.*

### **Introduction and history**

According to the *Oxford English Dictionary (OED)* an intranet is a 'local or



restricted computer network; spec. a private or corporate network that uses Internet protocols'. As a website intended solely for internal use, its content is produced by the organization, for the organization, in order to communicate effectively the issues which affect its members. Intranets promote knowledge-sharing and provide a single and secure point of access, allowing a company to manage its information and reduce the cost of information sourcing, printing and distribution. Intranet content can include staff directories, policies and procedures, bulletin boards, staff discounts and activities. Available and accessible to all members of an organization, an intranet is an ideal platform on which a smaller department such as a library can make its presence felt.

In the mid-1990s UK commercial and public sector organizations embraced intranet technology. A survey published by KPMG in 1997 (quoted in White, 1998) revealed that among 100 large companies 48% of respondents had installed an intranet, and 37% would do so over the next three years. During the same period, library intranets had started to become a common feature in media organizations, especially in the USA. By 1996 British news organizations such as News International, the *Herald* and the *Guardian* were developing intranets. These early sites usually consisted of very simple pages filled with text and hyperlinks on plain backgrounds. Constructed using basic HTML (hypertext markup language) they were restricted in terms of aesthetics, navigation and functionality. Lists of useful websites were a prominent feature as, in the pre-Google days, it was recognized that users struggled to find accurate and authoritative sources.

### **The *Guardian's* research intranet**

The *Guardian's* research intranet, managed by the library (or Research Department as it was called), was launched in 1999 and called ResearchNet (Figure 2.1 on next page).

By 2003 it was apparent that, although it offered some valuable features, the intranet's current format no longer met the demands of editorial staff, now more adept at internet searching and eagerly embracing Google. The *Guardian* relaunched its company intranet as Spike, giving staff access to information including a staff directory, electronic noticeboards, a list of staff activities and discounts, as well as areas for specific departments such as

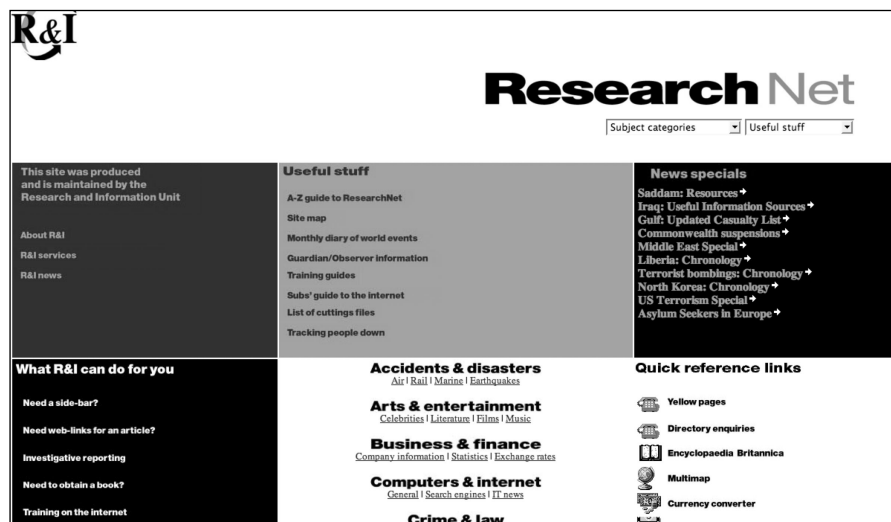


Figure 2.1 ResearchNet in 1999

Human Resources and Information Technology. The Research Department took the opportunity to redevelop and relaunch ResearchNet.

As part of the development, they undertook an audit of resources, deciding which to discard and retain as well as investigating new features to add. The Spike team, part of the *Guardian*'s press office, offered invaluable training and technical expertise to help create a more sophisticated design, including pictures, and reflecting the *Guardian*'s corporate style. Incorporated within Spike, ResearchNet now has a far greater audience reach; it is included on Spike's search engine and has a high-profile location on the home page. Co-operation, guidance and endorsement from other stakeholders made the redesign possible, but the day-to-day management of ResearchNet is left entirely to the Research Department, which has many other priorities to deal with. As this chapter will demonstrate, maintaining a current, accurate and engaging intranet is a challenge and often an ongoing process of re-evaluating resources against evolving user needs. Figure 2.2 on the next page shows the home page of ResearchNet in 2007.

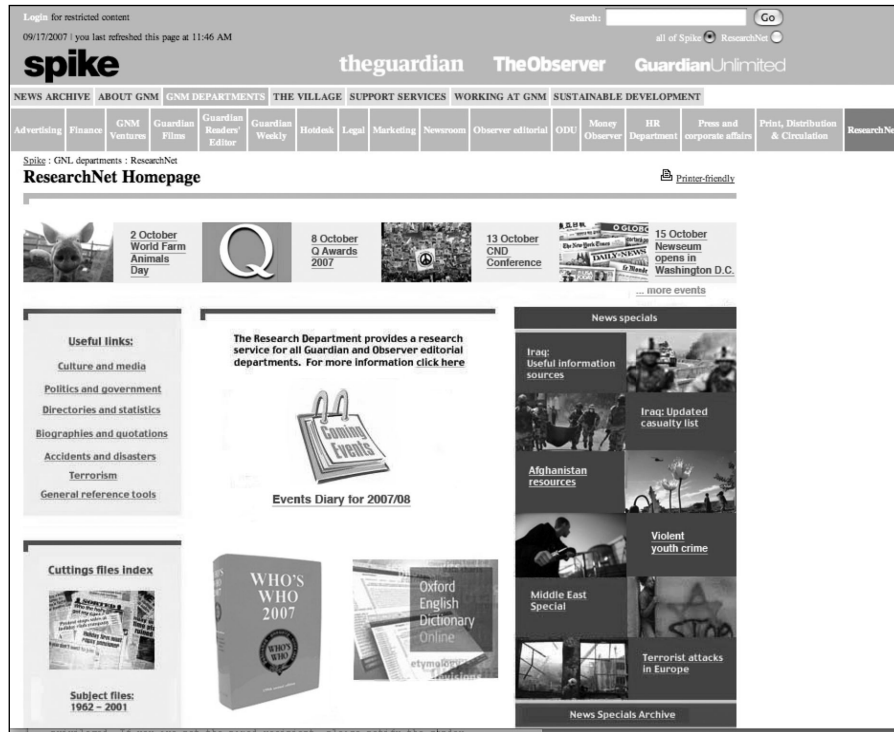


Figure 2.2 ResearchNet home page in 2007

## Creating your intranet

### Setting out your objectives

Before you set about creating an intranet, it is important to draw up a plan outlining your objectives. Think about why you want to set it up. Have you identified a real need to provide information to your users? Have users, or management, requested one? Or do you feel that it's something you should be doing, but aren't really sure why? Working through the following questions will help you focus on the type of intranet you need, and set limits on the scope of your design.

- 1 *Who is the intranet for and what will it contain?* It is important to consider how the intranet will be used. Is it aimed exclusively at journalists or will it be used by your department as well? An intranet can be a useful tool for librarians as well as a means of supplying information to others. Are you looking for a platform for existing databases, or do you want to roll out timelines, factboxes and weblinks? Will you give users

access to subscription services, or keep them within the library? There are many valid uses for an intranet and you should consider all of them, whether you include them in your final design or not.

- 2 *Who will design and maintain the intranet?* You need to work out who will be tasked with designing and maintaining the intranet. It is important for library staff to be involved from the beginning, but will one person take on the role of editor or will the entire office team be involved? Maintenance can be a time-consuming task and it is vital to ensure you have the resources to cope, particularly if there will be no full-time intranet manager. Be realistic about the amount of time the library can dedicate to updating the intranet, as this will dictate its scope and size. Designate a project manager to oversee the work, but remember to keep other staff members in the loop; even if they won't be directly involved, they will be regular intranet users and can keep a look-out for new resources.
- 3 *Do you have outside support?* It is vital for the library to have support from other departments in your company, including the IT department. If your IT department already runs a company-wide intranet, the staff should be happy to offer support but, if not, will you be able to rely on them for back-up or will you need to employ an outside company? You also need backing from managers; the decision-makers need to be supportive of the project if your intranet is to remain a priority.
- 4 *Do your users want it?* Before you start to design an intranet you must ensure that there is a market for it. If no one is going to use your resource then you have wasted your time. The best way of assessing your internal market is to speak to potential users directly. If you can find out what they want from an intranet and, just as importantly, what they don't want, then you can design a system that will be practical and widely used. You can also learn from peers who have designed their own intranets, read articles about intranet design (including those listed at the end of this chapter) and contact other media libraries to find out about their experiences.
- 5 *Who is your audience?* Identify groups of key users who would benefit from your intranet. Start by drawing up a list of the main departments that use your enquiry service. Most of your users are probably journalists, but think beyond the obvious: the intranet at the Daily Mail is used heavily by the advertising department, for example, and the ResearchNet events diary is used by newsdesk administrators. Don't forget internal

use either. Your intranet could be a great way of disseminating and storing information for your own department.

### Next steps

- 1 *Create a focus group.* A focus group is a great way of honing your intranet. Initially the group can brainstorm design and content ideas. Later on, they can provide vital feedback on mock-ups and redesigns before you launch the final product. Make sure you include people from different backgrounds, including library staff, journalists and technical support staff who know about software and hardware. Find out if anyone else from within the company has experience of creating an intranet as they could provide useful input.
- 2 *Speak to users.* One way of finding out what users want from an intranet is to design a questionnaire. This is a good way of asking specific questions and if you limit its length you are likely to get a decent number of replies. You may find, however, that some users, journalists in particular, say they don't have time to fill it in, which may skew or limit the results. An alternative is to identify users sympathetic to the library and speak to them directly. This way you can gain input from all user groups and a short questionnaire e-mailed to specific people is more likely to get a good response than a longer survey sent to all staff. Remember that users may have no experience of intranets, so you may need to mock up a simple version to show them what's possible. If you do not have time to create a questionnaire then an informal chat with chosen users can give you good ideas.
- 3 *Monitor queries.* If you find that users do not respond to a questionnaire, or are unwilling to discuss intranets, you could monitor general queries that come through the library. Keeping track of enquiries for a month will provide you with a good overview of the resources that are most in demand. It will also help you identify services that can be rolled out to users, such as telephone directories or *Encyclopaedia Britannica*, and spot areas that would save the library time and effort if they were online. For example, if you find you compile a lot of country profiles, then storing them all on the intranet would mean you would not have to start from scratch, compiling from disparate sources every time you receive a request. Monitoring will also give you a better idea of which departments use you the most and are therefore your intranet's key audience.

- 4 *Conduct an information audit.* Assessing your department's resources can help you identify what could be placed on the intranet. If your budget can stretch to it, you could design the intranet as a portal for online subscription services like Know UK, Red Pages and 192.com. You could also use the intranet to provide users with library databases such as a book catalogue or a list of cuttings files. An audit will provide you with a comprehensive list of the library's resources.
- 5 *Benchmark against your peers.* Comparing intranet ideas with other media librarians is a great way of discovering what has worked for others and what has not. This is true whether you are designing your department's first intranet or redesigning an existing system. Speak to librarians at social events organized by professional associations (such as, in the UK, AUKML, the Association of UK Media Librarians) or ask to visit and look at their intranet. There is no point repeating the same mistakes as your peers. Instead, learn from them and use their experiences in your own design.
- 6 *Trust your expertise.* It is true that you should not second-guess your users and assume you know what they will want from an intranet, but do not feel you have to include absolutely everything that they suggest either. It is you who will have to maintain the intranet so, if their suggestions are unworkable, then leave them out. An investigative journalist may want access to Factiva, but subscriptions are expensive and your budget may be limited. Someone who is used to accessing Hansard through a weblink directory might demand that you keep it, but these days it is just as easy to find Hansard reports through Google, and link directories are high-maintenance. Sometimes you will know best.

## **Intranet content**

### **Choosing your content**

What you include in your intranet will have a big impact on its usability and functionality and it is equally important what you exclude as include. You need to tailor it to the specific needs of your company and avoid overburdening users with unnecessary features, making it hard for them to locate what they really need. You must be able to maintain all the content you provide, as an intranet with out-of-date information is worse than useless.

- 1 *Existing online content.* Assess what already exists electronically and can be incorporated into the new intranet. You can build features from an older version of an intranet or from online databases into your new intranet. Their existing users will also constitute a ready-made client base.
- 2 *Scope.* An intranet must be manageable. You should consider all the possible uses for your intranet but what you include will depend on time and budget limitations. Some libraries, such as the one at the *Guardian*, only include content grown and managed by their own department on their intranet pages. Others, such as News International (Figure 2.3), manage content for the entire company intranet, giving them a high profile within the organization, but restricting the time they dedicate to updating

Figure 2.3 The News International intranet front page

the specific library resources. Decide early on whether your intranet is a portal to other resources or if it consists of data compiled by the library. This will be dictated by how much time you have to dedicate to managing the content, how many services you subscribe to and how many of these services you can afford to roll out company-wide.

- 3 *Topical vs historical.* Whether your intranet is a current awareness resource or historical archive of data will depend on the amount of time you and your team has to dedicate to updating content. Providing topical, up-to-date information draws users in and promotes the library. You can e-mail news editors with a link to the intranet when you add a new factsheet on an upcoming event. In early 2007 a member of the *Guardian* Research and Information Team compiled a page of resources on the Falklands War, which was used heavily by journalists compiling 25th anniversary reports (Figure 2.4). However, a topical intranet requires a proactive team, which can be a difficult adjustment for

**spike** theguardian TheObserver GuardianUnlimited

NEWS ARCHIVE ABOUT GNM GNM DEPARTMENTS THE VILLAGE SUPPORT SERVICES WORKING AT GNM SUSTAINABLE DEVELOPMENT

Advertising Finance GNM Features Guardian Films Guardian Readers' Editor Guardian Weekly Hotdesk Legal Marketing Newsroom Observer editorial ODU Money Observer HR Department Press and corporate affairs Pri

Spike : GNL departments : ResearchNet : Falklands Special

**Falklands Special** [Printer-friendly](#)

Please contact [Alan Power](#) [OD](#) for more information. Last updated 14 February 2007 04:33 PM

**KEY LINKS**

- [People Directory](#)
- [Noticeboard](#)
- [ResearchNet](#)
- [Feedback](#)

**Falklands Conflict - 25th anniversary special**

- Timelines/Stats/Facts
- [R&I's extensive timeline \(from 1592 - present day\)](#)
- [R&I's collection of memorable quotes](#)
- [Conflict as seen through the eyes of The Sun](#)
- [SAMA's \(South Atlantic Medal Association\) 1982 timeline](#)
- [GU interactive guide](#)
- [BBC's On This Day: June 14 1982 \(cease-fire day\)](#)
- [Casahistoria \(links to extensive resources\)](#)
- [Imperial War Museum casualty count](#)
- [Falklands Veterans Foundation casualty list](#)
- [SAMA Casualty database \(includes killed servicemen and testimonials\)](#)

**Government and official**

- [Foreign and Commonwealth Office's Falklands info](#)
- [Falkland Islands Government website](#)
- [Official website for the Falkland Islands](#)

**Military**

- [Falklandswar.org - Substantial collection of materials and information on the conflict](#)
- [Battle Atlas of the Falklands War \(includes maps, graphics, extensive guide to military ops\)](#)
- [Global Security - Falklands/Malvinas War](#)

**General**

- [CIA Factbook - Falklands entry](#)
- [BBC Country Profile - Falklands Islands](#)

**25th anniversary sites**

- [Official 25th anniversary commemoration site](#)
- [MoD's 25th anniversary site](#)

**20th anniversary sites**

- [Imperial War Museum](#)
- [BBC's 20th anniversary site](#)
- [MoD's 20th anniversary site](#)

**Blogs / forums / personal sites / media**

- [Flickr: Falkland Islands photo pool](#)
- [Keith and Val's Falkland Islands \(mainly photos\)](#)
- [Falklands/Malvinas forum](#)
- [SAMA discussion board](#)

Figure 2.4 ResearchNet compilation on the Falklands conflict



librarians accustomed to responding to journalist requests. You may find you encounter resistance from colleagues who think they know what journalists want but are unable to produce any evidence, but it is worth persevering. Another problem is that topical data must be updated regularly, a problem for libraries without a team dedicated to running the intranet. An alternative is using your intranet to store historical data already compiled by the library. Historical content can be valuable. The cyclical nature of news means it is useful to recall old data when it becomes newsworthy once again, rather than having to research the issues from scratch. It is also useful to have a record of data and resources from the time for anniversaries of major news events. ResearchNet combines both approaches. It contains an archive of old factboxes and chronologies that are no longer updated but is also regularly refreshed with current news specials, accessed through the front page, on Iraq, Afghanistan, the Middle East and other key news areas. The library also provides ongoing chronologies of stand-alone news events updated as they happen, such as a day-by-day timeline following the 7 July 2005 bombings in London and one on the aftermath of Hurricane Katrina in the USA. This original data adds value to commercial data from news agencies like Reuters and makes the library central to information provision and reporting. Newspaper libraries should ask for a byline whenever intranet data they compiled is published. This raises the library's profile and gives due credit for original work (something journalists recognize but librarians are apt to take for granted). An instruction at the top of each page of any documents given to the enquirer will remind journalists and editors to credit you.

- 4 *Weblink pages.* When news intranets were originally designed in the 1990s, they were seen as an ideal platform for providing lists of URLs to useful websites. At the time, search engines were in their infancy so librarians could apply their professional skills to seeking out new pages and telling journalists about them. It is arguable that today the internet is sufficiently well mapped, and search engines so sophisticated, that most journalists are capable of searching the web themselves. Weblinks are very time-consuming because they need to be checked frequently to ensure they are still active. Some of the libraries that founded their intranet pages on libraries of weblinks, such as the library of Associated Newspapers, have abandoned those pages. At BBC

research.gateway they are certainly not the priority they were once considered. However, Sellors (2007) has noted that deep linking weblinks to subscription products within subject categories can increase their usage (for example, they have a 'Defence' category, which deep links to relevant titles from CredoReference and Oxford Reference Online). She has also found that sites listed at the top of the page are the most heavily used. Weblink pages may be a more useful tool in a larger organization covering a broader subject range than a daily newspaper, in which case categories should reflect subject divisions among production and journalistic staff.

- 5 *Niche content.* Niche content can be the hook on which you draw in new users. If you have unique resources that are not readily available on the web, for example cuttings files, books, magazines and online subscription, provide database access to them through your intranet. You can also compile content which others can access but lack the time to exploit. ResearchNet includes a future events diary compiled from disparate sources (newswires and Foresight News). Editors and journalists can access the wires themselves, and desk administrators have logons for Foresight News, but they have no time to search effectively for future events. They use the events diary to plan future spreads and spot upcoming anniversaries and events to be covered by the paper (Figure 2.5 on next page).
- 6 *Library-only areas.* Don't forget that the intranet is a tool for you as well as your users. Keeping a separate, restricted access area for internal library use can enable you to share information not of use outside the department. ResearchNet has several password-protected pages, containing information on how to update the intranet, personal contact details and 'how to' guides.
- 7 *Use reputable sources.* Everyone working for a media organization should use reputable research sources. This is vital when it comes to intranet content or your company risks being sued. Make sure that the information provided on every page is sourced so journalists know where it has come from. This means that if the data is queried you can refer to the original source.
- 8 *Updating.* Intranets must be manageable or they will become out of date and lose the library credibility. How much content you add to your intranet will be dictated by time limitations and whether you have a

dedicated team or librarians fit the work into their daily jobs. Assess your resources continuously and avoid information overload. Most libraries access a vast amount of data via their information resources, but you should resist the temptation to provide too much for your users. You should offer quality rather than quantity.

The screenshot shows the ResearchNet Events Diary website. At the top, there is a navigation bar with links for Advertising, Finance, GNM Features, Guardian Films, Guardian Readers' Editor, Guardian Weekly, Hotdesk, Legal, Marketing, Newsroom, Observer editorial, ODU, Money Observer, and HR Department. Below this is a sub-navigation bar with links for Strike, GNL departments, ResearchNet, and Events Diary. A 'Printer-friendly' icon is also present. The main content area is titled 'Events Diary' and features a 'KEY LINKS' sidebar with links to People Directory, Noticeboards, ResearchNet, and Feedback. The main content is organized into a grid of event listings for different months:

- September 2007:** Events include: Rugby World Cup, Labour party conference, Festival of Science. On this day...
- October 2007:** Events include: Anti-McDonalds Day, Argentinian elections, Turner Prize. On this day...
- November 2007:** Events include: 25 years of Channel 4, Eurostar move to St Pancras, Whitehaven digital switch. On this day...
- December 2007:** Events include: Noble Peace Prize, World AIDS Day, Turner Prize. On this day...
- January 2008:** Events include: Liverpool European Capital of Culture, Cyprus and Malta join the Euro, National Year of Reading. On this day...
- February 2008:** Events include: BAFTAs, Oscars, Rio Carnival, 90 years of the women's vote. On this day...
- March 2008:** Events include: Heathrow Terminal 5 opens, Russian presidential election, 5 years since Iraq invasion. On this day...
- April 2008:** Events include: 100 years of the TA, 40th anniversary of Martin Luther King's death, London Marathon. On this day...

Figure 2.5 ResearchNet Events Diary

## Designing your intranet

Once you have selected your intranet content you must decide how best to present it, allowing simple navigation and functionality. Intranet users need to find exactly what they need quickly and easily. A well designed site will attract users, but if they have a frustrating and time-consuming experience this will lead to low hit rates and negative word of mouth.

- 1 *Look to others for inspiration.* The wealth of good-quality websites already in existence means you don't have to look too hard for ideas. When ResearchNet relaunched, the main BBC page was an early template for its design. You should also look at your own company's website as retaining a familiar corporate style can ease navigation; for example, always have the search engine or 'contact us' in the same corner


as on the main site. The BBC's research.gateway is a good example of this, as on each page there is a helpful 'I want to ...' section in the same location on each page, giving users clear guidance for locating the information they need (Figure 2.6).

Desktop access to research resources provided by Information & Archives Tel: 02 82288

## research.gateway

Home • Books • Events and Anniversaries • Finding People • Music • Newspaper Cuttings (NEON) • Pronunciation • Skills (CLVIS) • TV and Radio • Web Resources

### Credo Reference (formerly Xreferplus)



Credo Reference (formerly Xreferplus) provides quality research from over fifty resources with cross-referencing cutting across topics, titles and publishers. Use the concept mapping to try out alternative ways of generating associations and links.


### Research Tasks

I want to...

- Borrow a CD
- Search newspapers and magazines
- Search the TV and Radio Catalogue
- Find a celebrity contact
- Use the research.gateway reference search
- Search the Sheet Music Catalogue
- Browse the book catalogue
- Check a pronunciation
- Find a photograph
- View a list of research.gateway subscription sites

### research.gateway subscribes to...

#### Featured site: Broadcast



The online version of Broadcast magazine. Includes a searchable archive.

<h4>Finding People &amp; Biographies</h4> <ul style="list-style-type: none"> <li>Artists and Agents</li> <li>Celebrities Worldwide</li> <li>Current Biography</li> <li>Dic. Of National Biography</li> <li>Electoral Roll (Cameo)</li> <li>International Who's Who</li> <li>Spotlight</li> <li>Turn 2 Experts</li> </ul>	<h4>Reference</h4> <ul style="list-style-type: none"> <li>Encyclopedia Britannica</li> <li>Europa world</li> <li>KnowUK</li> <li>Oxford English Dictionary</li> <li>Oxford Reference Online</li> <li>Xreferplus</li> </ul>
<h4>Arts</h4> <ul style="list-style-type: none"> <li>British Theatre Directory</li> <li>Contemporary Authors</li> <li>Global Books in Print</li> <li>Grangers World of Poetry</li> <li>Grove Art</li> </ul>	<h4>Newspapers &amp; Magazines</h4> <ul style="list-style-type: none"> <li>Broadcast</li> <li>Jane's Defence Magazine</li> <li>New Scientist</li> <li>Times Digital Archive</li> <li>Times Literary Supplement</li> </ul>

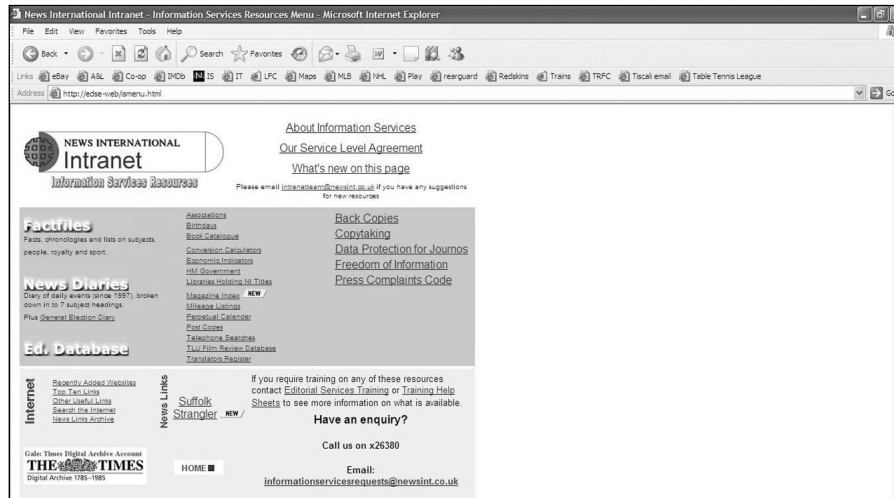
### Help and Training

Help and search advice

Free training with the research.gateway guides.  
Phone: 02 82288 opt.4  
Email: research.gateway

Figure 2.6 BBC research.gateway home page

- 2 *Follow basic principles.* First impressions count and a clean, well-structured site attracts users. Sections and subject headings should be clearly defined and unambiguous. Avoid library jargon or any other unfamiliar terminology. Users want to scan the front page quickly, recognize the resource they require and retrieve information in as few clicks as possible. When News International relaunched News Cast, its confusing and cluttered design led to the library's most useful content being buried, increasing the click rate and the users' frustration (Figure 2.7 on next page). Routine enquiries to the library increased, as users called simply to find information they had previously been able to find on their own.



**Figure 2.7** News International – Microsoft’s library intranet

- 3 *Stamp your authority.* The intranet should state its library ownership and reflect its professionalism in terms of content and style. Add credibility by demonstrating that there is a real, physical presence behind the virtual resource. Displaying up-to-date and correct contact information lets users know whom to contact if they have queries or feedback about the site. The *Herald’s* intranet Dookit is a great example, effectively signposting the content but also making the library’s involvement clear (Figure 2.8 on next page). If an intranet provides links to external sources or organizations you should ensure these are credible and authoritative, and that links are regularly checked. Make sure all your content is sourced correctly and clearly, avoid typographical errors and update frequently.
- 4 *Choose good simple design and easy finding aids.* Flash technology or scrolling images may be seen as a good way to enliven a site but users often find such tools gimmicky and distracting. However, pictures break up chunks of text which might overwhelm users and can highlight desirable features. One of ResearchNet’s most useful and popular resources is its diary of events and anniversaries. To draw attention to it we use four photographs to highlight certain upcoming events and we also use pictures to represent our ‘exclusive access’ products Who’s Who and OED. Site maps and search engines are excellent tools for helping users navigate sites quickly and effectively. Associated Newspapers’ library’s intranet E-Lib is essentially a portal

**dookit**

**EveningTimes**  
**The Herald**  
**sundayherald**

Advertising  
Ad Production  
Circulation  
Facilities  
Finance  
Human Resources  
IT  
Magazines  
Media Resources  
Marketing  
Production

**s1**

Search with Google:

Gannett Titles  
 The Web

**Herald Times Group**

BBC marketing on DIY  
video ads

Project Updates  
New editorial system

**Search Dookit:**

**Announcements**

**Security Passes** **New**

Would all department managers please make sure that when an employee leaves the department their security passes are returned to Front Desk Security.

This will enable us to keep track of who has access in and out of the building.

**Marin Lewis**, Head of Security  
15/09/2007

**News**

**New appointment: Andrea Mills**

I am pleased to announce that our new Regional Finance Director is to be **Andrea Mills**. [Read more...](#)

**Tim Blott**, Managing Director  
17/09/2007

**Evening Times video exclusive**

An exclusive behind-the-scenes look at a Glasgow theatre's new show has been captured in a voice and video package for the Evening Times website. [Read more...](#)

**Graeme Smith**, Assistant Editor  
14/09/2007

**World's End**

In keeping with The Herald's authoritative coverage of the World's End murder trial and its aftermath, The Herald online has published in full the unprecedented 6000 word statement made by the Lord Advocate, Elish Angiolini, to the Holyrood parliament on the collapse of the case.

**Magnus Lewellin**, Senior Assistant Editor  
14/09/2007

**Evening Times puts the boat into the opposition**

The Evening Times has saved Scotland coal hero's James McFadden's back for the nation.

With our rivals left trailing by our coverage yesterday, we hit the

**Quick Links**

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Staff Directory  
**ProQuest**  
**CREDO reference**  
(get account)  
IT helpdesk  
First Aid Contacts  
Past Facts **New**  
Webmail  
Submit content

**Exclusives**

**The Herald**  
Updated 15/09/2007

**EveningTimes**  
Updated 15/09/2007

New chief constable revealed  
**Chris Meehan**, pt  
Expansion plans for 24-hour buses  
**Gordon Thomson**, p4,5  
Merchant City fanzone for German visitors  
**John McCann**, p2  
Homeless hero turns his life around  
**Tain Lundy**, p7

**Media Headlines**

Updated 15/09/2007

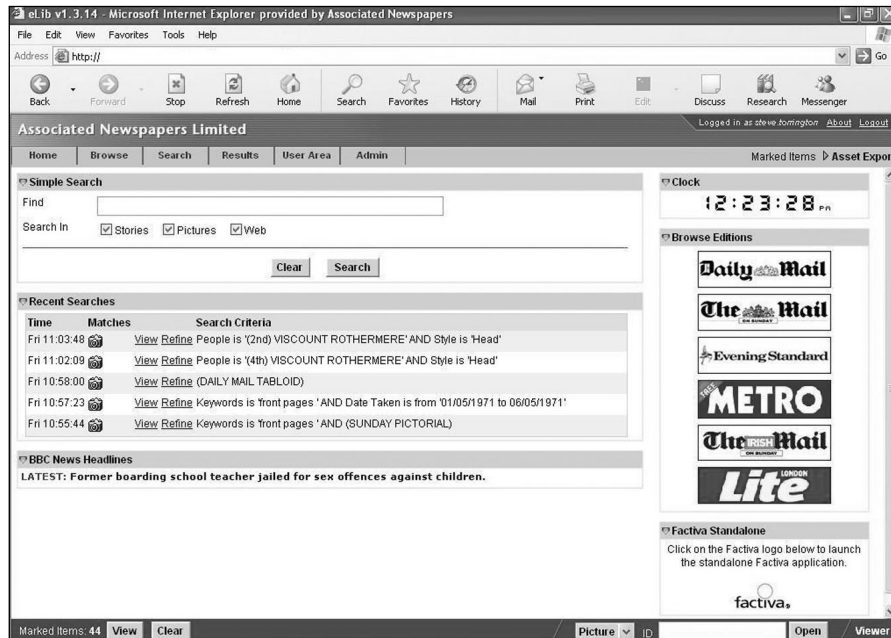
News organisations to appeal content of the Press Gazette  
Magazine spending exceeds £1bn a year  
**Press Gazette**  
Times to launch luxury

Figure 2.8 Dookit, the Herald's library intranet

using a federated search. In one click a user can search the library's text and picture archive as well as the internet and other databases. The lack of browsable content makes E-Lib simple, clean and uniform, but it also relies on users knowing exactly what they are looking for (Figure 2.9 on next page).

## Testing your design

Prototyping and testing formats are critical aspects of intranet design. ResearchNet's initial design ideas consisted of paper drawings submitted to members of the research department and the Spike team. Feedback and consultation ensued followed by more designs, feedback and consultation before any electronic prototype appeared. Staff had intensive training on a number of applications to create intranet page mock-ups and the final design for ResearchNet. If your department is taking responsibility for the day-to-day running of your intranet you may need training. You will also need to consult your IT department to ensure the intranet works on all your users' servers and browsers.



**Figure 2.9** Associated Newspapers' intranet E-Lib

Ideally, designs should be tested on your target audience for feedback or suggestions. Surveys, focus groups or one-to-one sessions with users can elicit crucial design ideas which you or your team had previously failed to consider. Even testing with a just a few users will be beneficial. In fact research by Jakob Nielsen (Nielsen, 2000) found the best results came from small tests involving no more than five users. Before the BBC relaunched its intranet in 2005 it carried out intensive user-testing across the organization, as did the research.gateway team responsible for the research pages. Both resources have scored highly with users because their designs work so effectively. Involving users also gives them a sense of emotional investment and increases anticipation for the final product.

## Marketing

A new or revamped intranet needs an effective marketing strategy to ensure it not only launches successfully but also retains users in the future. There are many channels and tools which can be employed. The scale of promotion will be determined by your available budget and resources but tailoring your marketing to your target audience is essential if your intranet has any chance of success.

## Developing a strategy

Identifying your audience is the foundation of marketing an intranet. If you have carried out user surveys or testing during the design stage you will already know who your users are and what kind of information they are looking for. Knowing your users means you can anticipate how they might respond to different means of promotion. You can also identify different types of users and target them with relevant features or resources.

## Hard and soft launches

Departments with a large marketing budget may choose a hard launch, a large-scale event which may involve a party or company presentation. This can create a high level of expectation but many in media organizations have become wary of endless, much-trumpeted launches of initiatives or resources by other sections of their companies. Many libraries, including those at the *Guardian*, the *Herald* and Associated Newspapers, opted instead for a soft launch, a more low key approach using certain marketing tools, but also relying on word of mouth. Instead of a blanket approach, users are targeted more directly based on their individual needs.

## Marketing tools

- 1 *Ask the experts.* Use the expertise available to you from your organization's internal communications or marketing departments. Whoever runs your company intranet can tell you how they launched and continue to market their site. The company intranet itself is an excellent place to promote the library's intranet. It can be used to announce the launch and, as with *research.gateway* on the BBC's gateway intranet, provide a permanent and prominent access point to the intranet (Figure 2.10 on next page). You could also ask your IT department about loading your intranet as users' home page or automatically adding it to their bookmarks.
- 2 *Use existing communication channels.* If your library has a newsletter or noticeboard make sure it includes details about the new intranet. Send e-mail alerts or, if your organization has electronic noticeboards or bulletin boards, use them to promote new resources. Embed URLs into posts so users can link directly to the relevant page. RSS feeds are another excellent device for keeping users informed of new additions to your intranet. Library managers should use head of department meetings





Figure 2.10 BBC gateway intranet home page

to inform other managers about the intranet. Staff who carry out enquiry work can also promote the intranet to users with whom they come into contact, for example by directing customers to the appropriate section of the site rather than simply answering the question using the same research tool. This depends on your colleagues buying into the notion of the intranet, so it is important to make sure they are properly informed. The email signatures of all library staff should also include a link to the new intranet.

- 3 *Brochures and handouts.* You should provide users with simple documents outlining the intranet's key features and benefits, to take away and keep for future reference. The BBC's research.gateway team distributes well-produced help sheets for presentations and training. Your organization's graphics or design department could help you in producing a professional brochure featuring corporate branding.
- 4 *Intranet name.* Having an eye-catching and memorable intranet name is

important to give it an identity. Running a naming competition before launching the intranet not only promotes it but makes users feel involved, generating a sense of ownership, a device used by the *Herald* when they launched their new intranet 'Dookit'. A distinctive logo is also a good way of creating an identity.

- 5 *Merchandise.* If you have the budget, branded merchandise such as pens, mouse mats or Post-it notes can be very effective. Make sure they clearly show the intranet's name and logo as well as the URL or a telephone contact number.
- 6 *Induction sessions and training.* Experience has shown media libraries that the most effective marketing tool is one-to-one contact with users. Group presentations may seem like a good idea but they are difficult to facilitate and attendance is usually low. Make sure the library and intranet are included in staff inductions, which will promote both your site and the wider department. You could also target new starters directly by e-mail. Journalists tend to cite lack of time as a reason for not attending events such as intranet demonstrations and a quick and tailored demonstration at their desk is an effective alternative. The BBC's research.gateway team have also found that many journalists are put off by the word 'training' and that 'troubleshooting' sessions elicit a more positive response. Associated Newspapers trained 'super-users' from each department, hoping the skills would cascade down to colleagues and staff. Unfortunately 'super-users' were too busy to pass on skills or even to attend the initial session. The staff also placed user guides online but concluded that one-to-one training at a user's desk is the most powerful way of recruiting converts. Finally, construct your training sessions to highlight relevant features to the trainee. For example, ResearchNet's events diary features prominently in training sessions for desk administrators who plan journalists' diaries.
- 7 *Word of mouth.* If a user is impressed with a new product it is likely they will recommend it to others. This is particularly effective when they are in a position of authority and influence and you should target such people directly. Choose a regular library user who would be happy to promote your intranet and may even provide a testimonial for your site or promotional literature. Every interaction you or your colleagues have with users is an easy, free-of-charge opportunity to market your intranet. Marketing does not end with the launch. It is a continuous

process, ensuring all users, new and existing, are aware of your intranet and its benefits.

## **Managing your intranet**

Once your intranet project is complete and the site is launched, you are on your own. It is crucial that your new intranet is sustainable. This requires putting into place appropriate structures and procedures, as discussed below.

- 1 *Provide a framework.* You should have comprehensive documentation outlining the objectives of the intranet and providing clear guidance as to how it will be maintained. A statement of mission and aims will provide current and future intranet editors with a point of reference to ensure they are continuing to meet the original remit.
- 2 *Allocate resources.* It is essential to determine who will be responsible for the day-to-day running of your site and what tools and support they will need. Most libraries do not have a budget for intranet development or a full-time intranet manager. At the BBC there are four dedicated members of staff in charge of creating and maintaining content on the research.gateway intranet, in addition to an enquiries service, which is funded separately. Two people are responsible for the events diary, which is seen as a key feature of the site. The library at Associated Newspapers is dedicated entirely to its intranet E-Lib site, working proactively on maintaining text and picture databases and managing subscriptions. For Associated Newspapers' users E-lib encompasses the library. In other libraries, such as those at the *Guardian* and News International, one member of staff has overall responsibility for the intranet in addition to their ordinary duties. Other members of staff are equipped to do routine updating to cover absences and, at the *Guardian*, they have a deputy editor. At the *Herald* daily updating duties are incorporated into the staff rota to ensure that content is always current. Within a busy media library it is important to put procedures in place so the site does not become out of date. Time allocated will vary: at the *Herald* the team can spend up to three hours a day updating Dookit, while at the *Guardian* an hour a day is more usual.
- 3 **Provide support tools.** Intranet editors should have relevant training and documentation such as online training manuals. A style guide is essential for those writing content for the intranet. Not only is writing

for the web very different from writing in print, it is important that web pages reflect the format of the intranet and the conventions of the organization as a whole.

- 4 *Manage time and expectations.* The more content and features you add to your intranet the more you have to maintain. Media libraries often have limited time and resources making it difficult to keep a large database of links, timelines and so on up to date in the ever-changing news environment. It is best to concentrate on a manageable number of key features than try to cover every possible area. Hit rates and usage statistics can help you identify which resources are the most popular and the most important to focus on and develop. Underused resources could either be marketed more aggressively or dropped to make room for something else. Losing unpopular resources can tailor the intranet more effectively and possibly save money.
- 5 *Keep it fresh.* Without new content an intranet quickly stagnates so you should always look for new ideas. Keep informed about news about your organization as well as general current affairs, and keep up to date with changes on the company's main intranet that may benefit your pages. Seek feedback from your users to see what works, what does not and what else they would like to see on the intranet. Encourage your immediate colleagues to suggest ways of improving content and keep informed about what other media libraries are doing. Keep abreast of developments in intranet technology. Wikis, blogs and RSS feeds can be useful additions to your intranet, attracting new users and encouraging feedback and discussion. Remember to inform users of changes or additions to content.
- 6 *Ongoing support.* Managing your intranet successfully also depends on receiving an adequate amount of commitment from senior management and colleagues. Management support can help secure the resources and time you need successfully to maintain your intranet. The intranet should be a priority within your department and have backing from the whole team. If colleagues are to be involved in updating content it is necessary that they are convinced the resource is worth investing their time in. Make sure you maintain the inter-departmental relationships you created during the initial project. Your IT department should be able to assist in any technical issues in the future and you should be aware of any developments affecting internal communications in your

organization. Try and be involved if there is a cross-departmental working group or consultation process looking at intranets.

## **The future for media librarians and intranets**

The future of intranets in media libraries is intrinsically linked to the future of media libraries themselves. As information becomes increasingly available online, it may be that the intranet will become the library for many users. Media librarians become gatekeepers to information resources, rolling them out to users, and the intranet their portal or access point. This does not mean an intranet should replace media librarians. A well managed and promoted intranet can enhance the library's role as a proactive provider of topical information rather than a depository of old cuttings files. Traditional librarians' skills are perfectly suited and, indeed, essential to uploading, managing and promoting the content which makes a successful intranet.

Changes to many media organizations' working practices also increase the importance of having an efficient library intranet. Although news publishers and broadcasters anticipate 24/7 working, library headcount and opening hours have in most cases been cut. Staff with remote access and working flexibly need a constantly updated, easily accessible and topical intranet more than ever. When physical library services are unavailable the library presence and role can be maintained through the intranet. Media librarians must see intranets as an opportunity rather than a threat. Giving users access to information sources will never replace the value-added research provided by librarians, but it can reduce routine enquiries and enable librarians to concentrate on more complex research.

The authors' overriding conclusion from their research is that effectively managed, well designed and successfully marketed intranets can have a positive impact on a media library's status within its organization. However, this can only be achieved by involving all your stakeholders, especially your potential users, at every stage of the intranet's development. Ultimately your users will be the judges who determine the fate of your intranet. Making them the focus of all planning, consultation, testing and marketing will undoubtedly help you achieve your goals.

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## Chapter 3

# Picture libraries and librarianship

GRAEME BOYD

*Most forms of published media use still images to add value to, illustrate or break up spoken or written words. The number of images used has increased in the past few years because of technological possibilities and commercial pressures. Even radio programmes now often run websites illustrated by pictures associated with their broadcasts. The ever-expanding number of platforms for images has made media organizations hungry for new sources. Many media organizations run their own picture archives and, bucking the early 1990s trend for disposing of in-house resources, are finding them profitable sources of income, especially if they have invested in a sales infrastructure or e-commerce platform. Other media organizations rely on external sources of pictures, notably photographic agencies, libraries and archives, which either represent their own unique collections or are mediators for other people's photographs. The range of collections useful for publication may cover not just photographs, but engravings, manuscripts and lithographs.*

*This chapter takes an overview of picture collections, how they can be used by picture researchers and the issues that emerge for those managing picture collections. Questions concerning managing collections are largely dealt with in the earlier part of the chapter and the role of the picture librarian in the second part. The author is particularly interested in giving a taste of the picture library world for those new to the profession or considering entering it. Although it is primarily aimed at picture librarians who work for media organizations, those in that position may identify themselves more with the wider picture library community than with the other kinds of information professional within the media*



*or even within their own organization. The author, who currently manages both still and moving images run by the environmental charity Greenpeace, has worked in a range of areas, from a picture collection at fashion magazine publisher Condé Nast, to an information research unit at the BBC, to the library at the Glasgow School of Art. This gives him a unique insight into the common ground shared between librarians working in the media industry and those working in other fields, but also the ability to identify the picture-related issues which concern media librarians in particular.*

### **Picture libraries and their customers**

At the time of writing, two acquisitive multinational picture agencies, Getty and Corbis, dominate the commercial picture industry. They emerged in the 1990s to transform the crusty, dusty picture archive industry into a digital 20th-century industry. They carry out a hard-fought battle for control of the image market, buying up the intellectual property rights of picture collections and generating huge profits as a result. After Corbis bought the Bettmann Archive in 1995 and Getty the Tony Stone and Hulton Archive a few years later, no other agency has matched their scale. Were they to merge, it would seem the whole of visual history could one day be controlled through a single enterprise.

However, aside from these two giants, picture libraries vary in their specializations and sizes. Some libraries deal with a single subject or photographer while others cover the generality of subjects, but each has a distinctive selling point. Stock libraries are the most common form of picture archive and act as a convenient source of images to fill brochures, leaflets and flyers. Good stock libraries keep in tune with current trends and regularly replace stock. Other libraries include archival libraries, commercial libraries and libraries specializing by subject, in anything from art to zoology. Most organizations which publish newspapers, magazines and television programmes have their own internal picture libraries, which enable journalists and production staff to find the image they need quickly and easily against tight deadlines. Keeping an in-house store of images is a cost-effective alternative to commissioning new photographs every time they require a picture. There is also currently a steady growth in small picture libraries offering a niche, personalized service, specializing in a particular subject such as news, culture, social history or food and drink.

Picture library customers include an array of creative businesses including

film and television companies, PR and marketing agencies, newspapers and magazines. Many relish the chance to work with picture agency staff who are experts in their field and who, at their most skilled, effectively act as a consultancy service for them. Some inexperienced researchers and journalists are unaware of the kind of help a picture library can give and, intimidated by face-to-face transactions, retreat to using e-commerce picture websites or even illegally downloading poor-quality images from the web. As they do not know about images they are missing, they perpetuate the existence of poor-quality or repetitive photographic illustration in the media. Luckily they are by no means the only picture archive customers.

Commercial picture libraries survive by predicting their customers' needs. If someone calls requesting a specific image the library does not have, then a sales opportunity is lost. Successful picture libraries anticipate needs, often developing different collections for a specific community or market. Staff need to monitor how images are being used in the media, in order to predict and understand the visual landscape, and keep track of what customers are buying and why. Customers may be far away, as the picture library industry increasingly relies on foreign markets, many using overseas agents and outlets to build relationships, and internet sales have increased the scope for picture libraries to operate outside their home territory. Jane Hance, a picture industry professional with 12 years' experience, says that it is important:

to understand the markets you are providing images to. Whether it's publishing, advertising or corporate. It's a real advantage to thoroughly understand the type of images the client is looking for. The photos should always be fit for the purpose. For example you don't need advertising photographers to shoot for educational books. Images have to be reflected in the text, they have to do the talking. Finally, remember you are providing a service.

## **Copyright and licensing**

Photographers retain the rights over the images they create, but they license picture archives or agencies to represent their work, normally exclusively over an agreed period of time. A typical deal would give the photographer a fixed percentage whenever the library sells one of their images. It is part of the picture librarian's role to protect copyright and make

sure they do not infringe someone else's rights. UK copyright law states that original work is copyright-protected as soon as it has been recorded in any way, whether on paper, in an audio recording, on film or electronically. In addition to rights-protected images, some picture agencies offer royalty-free pictures, where the customer pays a flat fee for unlimited usage.

Picture researchers often have trouble convincing the creative community that having an image in their possession does not make it theirs to use as they wish. Those working outside picture archives can be pressurized to use an image whose provenance is in doubt. It is good practice to keep a paper trail of their efforts in trying to establish the source of an image, to prove that every possible effort was made to try and trace the original copyright-holder should a dispute emerge. Journalists are sometimes also presented with free pictures from non-picture-library sources, such as tourist offices or public relations companies. These often are not really 'free' because the time expended to obtain them is disproportionate to the fee saved by going to a picture library from the outset.

Copyright in an image exists in the UK for 70 years after the death of the author, but the intricacies of copyright law mean this is not always straightforward. There may, for example, be specific sales embargos on an image. The author has worked with photographers and photographers' agents who require written details about researchers requesting to use their work before they will grant access. Picture libraries must adhere to such requests to uphold the reputation of the archive and make sure they are trusted with photographers' work in the future.

A model release form should always be signed if an image to be used for commercial gain (such as in an advertisement) has a picture of a person in it (this is designated 'commercial' rather than 'editorial' use). The form is likely to state that the person or persons photographed have consented to this and to have their image reproduced. However, it is often obtained after the event and the subject may feel they are being exploited once they know there might be profit involved or have personal objections to the context in which it is going to be used. For editorial use, pictures do not normally need to be 'model released', although in extreme circumstances it could be advisable, for example if an image is used to depict an illegal or distasteful activity.

## Digital copyright

Copyright law is still catching up with the potential released by developments

in visual technology. It is unclear, for example, who owns the copyright of a new image that has been created from two or more other images. Even where the law is clear, however, preventing the illegal downloading of photographs from websites is difficult.

Digital watermarking or 'fingerprinting' is one means picture agencies have for preventing pictures from being used before or even after purchase. A translucent logo or virtually imperceptible code is embedded into a digital image to identify ownership, encoded so that it does not show, cannot be deliberately removed or tampered with (cropped or distorted) and is still there when a picture is altered, when only part of it is used and when it crosses different media, for example from a digital scan to a print medium and back again. However, it is expensive, still in its infancy, and many smaller libraries choose to invest in other areas. Others will make an image available before purchase with a visible watermark, but once the client has paid for and downloaded a clean, high-quality image, the library is powerless to prevent the client using it again, other than with legal action after publication.

## Pricing

The prices picture libraries charge to license images to their customers depend on how they are used and on market trends and practices, such as print runs, exposure and syndication. The nature of the image does not affect the price. Customers purchasing images for commercial use pay more than if they purchase for editorial use. Most libraries will negotiate on price, as it is always beneficial to have pictures used and be credited as the source, and offer deals for regular users and those buying in bulk. If clients wish to use the image for a purpose beyond the original licence, such as for foreign or new editions of books, or the extension of an advertising campaign by time or territory, further permission is required. It is rare, however, that clients license an image for use in a single country; most require and pay for world rights. Pricing is a delicate operation and the average photographer would not know how to cost an image fee. Occasionally new agencies emerge promising a greater percentage to the photographer, but they rarely survive commercially. Photographers and picture libraries rely on each other to ensure that a healthy market for images survives.

## **Digital photographs**

### **The arrival of the internet**

The internet has revolutionized the picture library industry from many different points of view. First, the traditional purchasers for images, those who publish books, magazines and newspapers or make advertisements, have expanded into the digital world, requiring more images to fill up this new space. Second, many picture libraries have digitized some or all of their image collections and made them available online. In most cases, they have found new clients and markets who either were not aware of their holdings or were not tempted to buy until they could do so via e-commerce, particularly if they were based in a different country from the picture archive.

Electronic delivery has massively increased the speed with which images can be passed from owner to customer and, beyond that, processed for publication. Jane Hance remarks:

The industry has changed so much since I first started. Agencies all used to work with transparencies and we would send out piles of transparencies to clients. Clients used to check off on delivery notes that all were received and had to ensure that all were returned. This is the biggest change, as this administrative task was so time consuming and so many transparencies would go missing with huge loss fees to pay. This also meant all deadlines were dependent on the post and so things could take a few days to arrive, a huge difference in terms of picture deadlines. Selections had to all take place at light boxes and there was very little photo manipulation that took place. With digital there is less administration, no loss fees and no waiting for post!

Moreover, as documentary photographer Robert Knoth believes, 'digital picture quality is constantly improving and will eventually match the quality of photographic film'.

### **Hard copy vs digital**

Digital images are not without problems, however. Many publishers still select from transparencies rather than digital images for quality control reasons, mainly regarding the regulation of colour. A researcher can select a transparency using a lightbox and the human eye. If the colour contrast

or colour saturation within a digital image is changed, quality is lost, leaving little room for adjustment. Sometimes problems only appear after a digital image has been blown up. A researcher selecting a digital thumbnail may be unaware that it has been poorly scanned or saved in the wrong resolution or format until they see it at its full size, by which time they will have wasted effort and money.

Once a print has been digitized, it can be reproduced endlessly with no harm to the original. This has left many libraries with the question of whether they should pay to store the original image. Some argue that the original print has acquired integrity and artefactual value throughout its life. Has it not changed colour, shape and smell? Does it not offer historic, artistic and financial value? They would argue that scanning an image simply freezes a moment in its history (and in the history of technological development). A scan of an ancient lithograph is not the same as holding it in one's hand.

As it stands, the industry is in a hybrid state; it is partly physical, but mostly digital, at least at the point of delivery if not of long-term storage. Picture libraries still deal with a full spectrum of clients, from those who regularly download images to those who prefer to spend hours inspecting transparencies over a photo lightbox. The latter are aware that only a small number of the world's images are available online. Moreover, the conglomeration of previously independent pictures sources has made it more difficult to find unseen, unusual images which can be part of the thrill for the researcher. These loyal users, normally working in publishing, will always enjoy the tactile familiarity of selecting material and physically leafing through portfolios. They are happiest being lost in a basement of wall-to-wall filing cabinets full of negatives, prints and transparencies.

Libraries are by nature user-friendly and the best picture librarians, if they can, encourage personal visits. This is because, in the author's experience, it is very difficult to interpret from the client exactly what they are looking for through a phone call or an e-mail, particularly with images representing intangible concepts like 'happiness' or 'teamwork'. Often the client knows exactly what they have in mind but needs to browse through a range of images before they can articulate it. Another advantage of a personal visit is that seeing unexpected pictures may spark off new ideas. Moreover, an image is more likely to be used if the client selects it personally.

For libraries, the main disadvantage of clients' physical contact with their

collections is the inevitable deterioration of the pictures' condition. As Nick Galvin from Magnum Photos believes:

the more digitisation that happens, the more valuable these physical archives will become. At Magnum around two-fifths of our images are scanned and online. These will be within the subjects that we have most requests for, the most popular subjects or persons. It is a viable commercial decision as to what has not to be scanned. Commercial pressures mean we offer online material first. Only if it was a large book project we were doing, would we use the originals.

## Digitizing collections

Library staff need only basic ICT experience to clean, retouch or reposition a hardcopy image in a scanning machine. Unfortunately this is time-consuming, labour-intensive and expensive, as it can take anything up to an hour to prepare and scan a picture depending on the speed and quality of the machine.

The investment required for large-scale digitization projects is daunting, not just in technological equipment, training and time, but also in the level of sustained marketing and advertising needed to let existing and new customers know they can now access your collection online. Linda Royles from the British Association of Picture Libraries & Agencies (BAPLA) believes that 'whilst costs of producing, storing and distributing digital images is cheaper in some ways than working with analogue, investment in technology to convert from analogue to digital and to have a client-focused searchable site is expensive'. Moreover, expert decision-making is needed to select which materials should be digitized, for how long and what kind of technical infrastructure will be needed to support the vast number of formats, not to mention whether the original is kept and how many copies if so.

However, the advantages can pay lucrative rewards. Robert Elwall from the Royal Institute of British Architects (RIBA) notes 'For us, digitisation is primarily about access and facilitating the making available of our material in a wide range of forms. The adage of "digitise once, use many times" is certainly one of our driving forces and allows us to make our collection better known to a wider audience.'

## Digital asset management systems

Acquiring a digital asset management (DAM) system allows picture librarians to identify, store, manage and retrieve 'media assets', normally still or moving images. A simple, user-friendly system can allow non-information professionals to enter basic picture information at the point the image is created. John Novis, picture editor at Greenpeace International, explains:

We try and have our photographers do as much of the data input as they can whilst on the job. It's in their contract. We want them to concentrate on taking photos sure, but when they come to transmit us the images, usually over FTP [File Transfer Protocol] they should be able to deliver tagged images, with date, location, subject and notes direct in to the correct folder on our DAM system. When our cataloguer picks them up all they need to do is double check everything and add other key fields to make the images searchable and compliable internally.

Marketing and sales representatives from the software companies who make them (examples worth looking at include Orange Logic, Picdar and Virage) offer convincing evidence that picture libraries cannot survive without a DAM system. However, it is important to remember that it represents a continuing investment and archives should ask themselves whether their clients require a system before making the decision to purchase. They should compare prices on software and servicing before they look at products and speak to existing users to find out common faults and complaints about the product or service.

## Metadata

As with any software that allows text to be stored and searched, the backbone of a DAM system is metadata, which allows the researcher to find images through words structured into categories. Without detailed image metadata, search options might be limited to freetext, file size, file format, colour or black and white. The potential for accurate searching can be enhanced when a subject field accesses a controlled language (also known as a taxonomy). Silver Oliver, BBC Information Architect, says: 'Now recent websites contain disambiguation software whereby the search engine can differentiate between identical words with different meanings: for example,



orange the fruit, orange the colour and Orange the company.' The advantages of metadata use are not restricted to making searches more accurate. According to Oliver, 'By structuring your data using an established metadata standard you open up opportunities for sharing and processing resources between archives. Established metadata standards, like METS [the Metadata Encoding and Transmission Standard], are invaluable for developing preservation strategies and migrating between technologies.' He also highlights the importance of metadata in enabling media assets to be accessible in the long term:

It is a commonly held belief that preservation is not a concern of born-digital objects. The medium of storage is as a rule relatively non-perishable. The opposite is, in fact, true due to the rapid obsolescence of standards for storing and accessing data. A great deal of thought must go into a preservation strategy to ensure a particular resource will be accessible in ten or even five years time. The foundation of a good preservation strategy is built on established metadata standards.

## Standards and formats

Agreed format and content standards in picture libraries are necessary so that pictures can be shared with users and processed using their own production software. Today clients expect to use images in a variety of secondary multimedia products, from a clip on the internet, to incorporation within a video game, to a variety of DVDs and CD-ROMs. However, businesses continue to acquire software which does not support the formats in which digital files are held and no efforts are being made to ensure consistency across the industry. Admittedly, technological innovation can be frustrated by overly prescriptive standards, but it would certainly be a boon to the picture industry to minimize the plethora of file formats currently available. Unfortunately, information about standards is currently only documented by organizations that identify and promote them, not by a wider body which oversees and controls these organizations. An exception is BAPLA, which has been working with agencies and their clients on standards for image distribution and guidelines for standards of digitization.

## Preservation

There is a very different approach needed for digital preservation than for traditional preservation. Some old photographs made with nitrate film can literally explode. Others suffer 'vinegar syndrome', decomposing and dissolving emitting a sour-smelling odour. A photograph left in the sun's full glare for an hour will fade, shrivel and curl. A good hard-copy storage strategy balances the need for customers and researchers to handle pictures with the need to keep them safe for future generations. Ideal conditions for long-term storage are a cool store where the temperature is kept at 15°C and relative humidity at 40%, backed up by freezer storage for at-risk acetate material.

However, stored carefully, we can look at images preserved on paper or glass negative 150 years after they were created. Digital information is evanescent and fragile and will not be accessible even in a few years if the software or hardware needed to access it is no longer available. Image formats pose even greater obsolescence problems than, say, word processing documents, because each format chooses to code the image in a different way. Essentially, traditions do not yet exist for digital material. Furthermore, digital storage offers the illusion that preservation is not a problem because, unlike analogue storage formats, a digital copy is ostensibly an exact replica of what was copied. This is not the case. Image formats degenerate, losing quality from the previous copy or 'generation'.

There is little leadership on the best way to preserve digital materials and hardly any standardization in formats. Picture archivists cannot predict the future of the digital assets they manage or who will want to access them; buying new technology takes precedence over funding preservation and the costs of providing current access often overlap with those for preservation. It could simply be that the pace at which new digital resources are being created is accelerating so quickly that no one has the time to think about anything else. Yet, to maximize the potential of picture archives' initial investment in digitization, preservation should be a priority and collaborative action is needed. Should we not be trying to improve the fragile, brittle longevity of film before we pick and mix which JPEG (Joint Photographic Experts Group), TIFF (Tagged Image File Format) or RAW file we save our high or low-resolution image on? Do we know how many original copies already exist of a digitized image? What will be historically and/or commercially valuable in the future? Public and private institutions should work

together to preserve both traditional and digital images in the best way.

One solution might be a think tank or ideas store, made up of representatives of the national archives to assess the current preservation climate. Other positive action could be libraries sharing offsite storage facilities and using them co-operatively or different agencies dividing up responsibilities for specific services. The author is dismayed that large conglomerate agencies can buy up the market purely for content and no ruling body or auditor imposes terms that first stipulate their preservation strategy, past, present and future. Picture librarians should promote good practice, awareness-raising and training in digital preservation. They need to fulfil their traditional role as the custodians of the information of the future by collaborating to produce a clearly articulated vision of what is to happen to still images.

### **Qualities of a picture librarian**

A modern picture librarian working for a small or medium-sized archive is likely to have a composite job, acting as part-librarian, part-archivist, part-curator, part-photographer and part-technology expert. Some of the qualities which might be needed and issues picture librarians meet in their working day are outlined below.

### **Main skills**

The main skills for picture librarians are in:

- handling digital photographs
- handling and conserving hard copy
- publishing and controlling the quality of digital images (including colour management and screen calibration)
- meeting the needs of the publishing industry
- negotiating with clients
- meeting customers' needs
- researching and investigating
- basic ICT and database management.

### **Main competencies**

The main competencies picture librarians require are:

- to work methodically
- resilience
- to pay attention to detail
- to be able to communicate.

### Main activities

The main activities for picture librarians are:

- conducting research on behalf of clients
- responding to verbal descriptions with visual concepts
- negotiating fees
- negotiating deadlines
- writing licences or contracts
- compiling primary research.

### Other activities

Other activities that picture librarians carry out are:

- responding to queries and giving advice on costs and rights
- discussing fees with clients
- dealing with contractual issues
- photographic research
- planning new departmental processes
- recruiting and training new staff and work experience
- setting up new procedures that will help the department run more smoothly.

### Issues facing picture librarians

#### Disintermediation – picture research

Picture research was at one time a highly specialized activity carried out by skilled practitioners with minute knowledge of the holdings of the world's picture archives. Today a belief persists that most journalists and editors can search for pictures and conduct initial research themselves using the world wide web. Lacking the searching skills of trained professionals, most end-user searchers tend to rely heavily on browsing, so their searches cost more, take longer and are harder to filter to a concise end result. Their lack of knowledge of potential sources means they often rely on search

engines like Google Images, which merely skim the surface, never penetrating the most valuable online picture archives, never mind those which have not been digitized. Moreover, web image searches calculate relevancy on the basis of text nearby to the image on a web page, which may or may not be accurate to the image. It remains the case that the highest-quality and most cost-effective research is carried out by qualified or trained picture researchers and librarians.

However, it is a challenge for picture researchers to sell their services and in-house picture libraries to justify their existence to their managers. The *Guardian's* Information Manager Richard Nelsson describes, 'feeling like an information evangelist, proselytising the good word of the department, whether it's in a meeting or on the stairwell' (Nelsson, 2006). However, Head of Associated Press Archive Alwyn Lindsey believes:

The expansion of online searching has not led to the demise of the professional researcher. Matching content to a creative brief requires skill for it to be done well. If you know that you need a specific image you can look for it online, but the issue is tougher when there's a vast quantity of material to sift through and that takes some skill and experience to find the best and most pertinent images. You have to be capable of making that judgement. Also, there are many instances where you need to match images to a concept where there is no specific image in mind, and this takes some creativity and lateral thinking on the part of a researcher.

By the time customers approach a library, 50% of the work should have been done. It is in the client's interest to give the clearest possible brief because prolonged research carried out by library staff often incurs a charge; even in-house collections may charge, even if you are part of the company. The archive should be provided with the anticipated size of reproduction, the size of the print run and the territories in which it will be distributed. Journalists and publishers expect ever more instantaneous results from picture libraries, and themselves often face tighter deadlines than in the pre-24-hour news age. However, fully interpreting the brief, preparing images and checking for copyright restrictions takes time and mistakes can be more costly in the long term.

## Disintermediation – picture archiving

An increasing trend has been reducing staff in picture archives on the basis that the photographer can carry out part of their jobs. A handful of photographers are turning freelance to create their own independent online picture agencies. This bid for autonomy has been made possible by the ease of access and relative cheapness of the equipment needed. The prime motivation is to enable photographers to control their work and deal with clients directly, although predicted sales income must cover web design and maintenance costs. In 2007, 15% of the Corbis photographer workforce was cut on the basis that increasing numbers of images had become available on photographers' own websites. Their photographers, among the best in the business, now had to either build their own e-commerce websites and represent their own work or find another agency.

Photographer Robert Knoth believes: 'The cost and time for me to manage this [website] is a cost and a time which I should be using in taking pictures . . . . The Getties of this world have an infrastructure I cannot compete with. I need the global market to survive.' Nick Galvin from Magnum Photos, which acts as a 'co-operative' between photographer and agency, notes that 'some photographers already have their own archive which they then give to us to manage, but many simply don't have the time to do both' [taking and managing pictures].

The media are increasingly publishing amateur photographs sent in by readers and listeners. Although the quality is often poor, particularly when taken with camera phones, it enables hard-to-reach news or celebrity stories to be illustrated. Picture desk staff may even browse websites like Flickr, Picasa and Photobucket for relevant photographs. The more sophisticated website Scoopt offers 40% of royalties to the photographer if their image is used.

## Outsourcing

Another method commercial picture archives use to reduce costs is outsourcing. Many libraries cannot afford continuously to modernize with each new technological development and do not have the resources to promote their collection. A typical scenario would see an archive digitized, stored, catalogued, captioned and transmitted by an outside contractor to whom the library subsequently pays a yearly fee to manage their sales. The contractor would ideally have an existing client base in the same area as

the archive's customers. Others prefer to manage their collection in-house. Martin Atkin, Head of Creative Development at the Greenpeace Archive, says: 'We have a large internal demand for the library and it would be complicated if it was somewhere else. There is talk about making it more commercially viable in the future but just now it serves our internal needs just fine and acts as an efficient campaigning tool.'

### **Building your picture library career**

The best picture librarians are passionate about the material with which they work. Picture archiving can be hard in the news and media industry. Shouted at by journalists, and constantly supplied with new images to process to tight deadlines, picture librarians working for newspapers, magazines and broadcasters can feel they are working in the middle of a hurricane. In reality, they are providing content for a publication or programme which will be replaced by another edition or episode in a matter of months, weeks or even days. The author remembers being surrounded by a labyrinth of the best fashion and portrait photography in the world when working for magazine publisher Condé Nast, but never having a chance to look at it because of the volume of work.

Joining the picture library industry requires the same proactive approach as other desirable sectors. Michael Martin, adviser from the Qualifications and Professional Development department of UK professional association CILIP, offers the following advice to would-be picture librarians:

Look at how you can build up experience in your current post: it may not be in your job title or description but by getting involved in cataloguing images or promoting different materials (ideally supporting the aims and objectives in your job) you will be in a strong position to apply when that ideal post is advertised. Join the Multimedia Information Technology special interest group of CILIP; attend their conferences and short courses. Not only will this support your knowledge and C.V. but [it] will help you make good contacts and maintain your current awareness. Students are in a strong position to direct their careers. Focus on the elements of the course that really interest you. Choose, or if necessary search for, placements in media libraries. Placements may not be appropriate but you may also slant your dissertation

to the area you want to work in. This gives you material for your C.V. and examples to refer to in interviews. When you graduate that ideal job may not be advertised. Don't wait around for it to appear, build your experience and think how what you're doing can be transferred to media librarianship.

When approaching employers, a covering letter and CV is far more formal and professional than an e-mail with an attachment but should be followed up by a telephone call a week later. This demonstrates enthusiasm, initiative and courage, all useful qualities in a picture librarian.

Small professional groups like BAPLA, AUKML (Association of UK Media Librarians) or ARLIS, the art libraries' society, have paltry membership costs for students yet provide a wealth of information and events. The author attended both the AUKML and ARLIS conferences as a volunteer, after contacting the membership secretary to see if they needed an extra pair of hands, and made valuable contacts. It is advisable regularly to check relevant websites for details of social events and talks for the training and networking opportunities they provide. BAPLA offers various factsheets and training for members and non-members as well as running a free vacancy service, allowing members to gain job experience and apply for full-time positions.

Dr Paul Burton, Senior Lecturer in Computer and Information Sciences at the University of Strathclyde, offers his advice:

Keep an eye on careers web sites such as [www.jobs.ac.uk](http://www.jobs.ac.uk) or [prospects.ac.uk](http://prospects.ac.uk), and never forget that your university or college careers service is not just for the time when you are a student: it can continue to help you after graduation. Also, look carefully at advertisements for posts in picture libraries in order to identify the skills asked for and to match them to your own.

Burton adds that a degree in library studies or information science could help towards securing a position within a media library setting: 'Certainly, many of the skills and concepts taught . . . are directly applicable to media librarianship, especially in the digital age when picture libraries are creating web sites and digital versions of their collections. This is because the structure of these courses emphasize the techniques of information organization, storage and retrieval regardless of format.'



## **The future of picture libraries**

The author's main prediction for the future of picture libraries is that there will be increasing conglomeration and digitization. In a few years the industry will be 100% online with just a few global players. The average consumer with a personal computer will soon have access to the world's collections of digital images from their desktop. Everything held in a physical space will sooner or later be digitized and hard copy used for reference or auctioned off. The structure and tools that facilitate browsing, querying and retrieval are still in their infancy, but the trend is irreversible.

Traditional photo libraries may find it hard to adapt or survive in such a changing market, particularly as further corporatization of the industry occurs. Stills collections are already being snapped up by media organizations eager not to be left behind. Large conglomerates acquire small picture libraries because they see this as an opportunity to bring together the best brands, the best collections and the best distribution into their existing sales infrastructure. To compete with the bigger picture libraries, who can do quantity deals with publishers, smaller picture libraries will need to concentrate on their marketing.

It is true that no computer in the world can replace or compete with the years of knowledge gained through being an expert in a given field. But staff roles and responsibilities must adapt and diversify to work within the digital environment and be prepared to break down the walls between individual collections. The author has worked with colleagues who cling to familiar territory, unable or unwilling to adapt to image digitization. Picture librarians are becoming the gateways to material rather than the owners. They must manage images wherever they are collected, transmitted and used.

A further challenge for expert picture archivists is to retain the development of the collection which short-sighted managers may feel is now the responsibility of the IT department (few would consider hard copy pictures to be the responsibility of facilities management, although the IT software or hardware holding the images is simply an electronic storage medium). Libraries need to work to prevent images being managed by people who are not trained in archival and preservation practices. Archivists need to consider how their uniquely well developed training and skills in handling image materials can be applied to digital images. Can librarians be expected to become digital asset managers or technologists?

The traditional customer base for images is also changing. The picture

library business has become a central PR resource. Corporate websites need far better and more original images than were ever needed for their published annual report; digital outdoor media campaigns now appear everywhere from bus shelters to sports arenas; and news organizations frequently buy editorial photography rather than sending photographers out on assignment. To these new customers, picture libraries are not valued for the size of the collection and the number of transactions, but for where and how resources are accessible. Where information professionals know the great value of curated print, they place higher value on convenience and speed. The new generation of customers wants a seamless presentation of collections and services regardless of where it is held, by whom and in what format. These clients do not care about standards, or on what camera an image is taken or even how it is delivered. They simply want to be able to buy the product and use it as they wish. To conclude, Linda Royles from BAPLA outlines the essential qualities of the modern picture library:

In the current fast moving digital landscape, talking, learning and sharing is essential in making any prediction for the rapid pace of change that is today's content environment. Associations such as BAPLA are essential for bringing together competitors, to work on best practice and to share expertise with the wider community. Dialogue between buyer and seller is essential and easier to facilitate on an industry wide basis than on a company by company offering.

### **Note and acknowledgements**

The author's opinions do not necessarily reflect those of his employer. All quotations are derived from personal communications with the author.

### **Useful sources and contacts in the UK**

Arts and Humanities Data Service for the Visual Arts

(AHDS Visual Arts)

University College for the Creative Arts

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Fax: +44(0) 1252 892 913  
E-mail: [info@visualarts.ahds.ac.uk](mailto:info@visualarts.ahds.ac.uk)  
Website: <http://ahds.ac.uk/visualarts/index.htm>

Associated Press (AP)  
The Interchange  
Oval Road  
Camden Lock  
London NW1 7DZ  
Tel: +44 (0) 20 7482 7482  
Fax: +44 (0) 20 7413 8327  
Website: [www.aparchive.com](http://www.aparchive.com)

British Association of Picture Libraries & Agencies (BAPLA)  
18 Vine Hill  
London EC1R 5DZ  
Tel: +44 (0) 20 7713 5397  
Fax: +44 (0) 20 7713 1211  
Website: [www.bapla.org.uk](http://www.bapla.org.uk)

Chartered Institute of Library and Information Professionals (CILIP)  
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Website: [www.cilip.org.uk](http://www.cilip.org.uk)

Department of Computer and Information Sciences (CIS)  
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E-mail: [enquiries@cis.strath.ac.uk](mailto:enquiries@cis.strath.ac.uk)  
Website: [www.strath.ac.uk/cis](http://www.strath.ac.uk/cis)

Picture Research Association (PRA)  
(Business hours 9 am to 5 pm UK time Monday to Friday)  
c/o 1 Willow Court, off Willow St  
London EC2A 4QB  
Website: [www.picture-research.org.uk](http://www.picture-research.org.uk)

Pidgeon Digital  
Microworld House  
PO Box 35488  
London NW8 6WD  
Tel: +44 (0) 20 7586 4499  
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E-mail: [microworld@ndirect.co.uk](mailto:microworld@ndirect.co.uk)  
Website: [www.pidgeondigital.com](http://www.pidgeondigital.com)

Popperfoto  
(Dates back to as early as 1850 with colour images from 1936. Popperfoto claims the archive is now so irreplaceable that it ranks with museum collections)  
The Old Mill  
Overstone Farm  
Overstone  
Northampton NN6 0AB  
Tel: +44 (0) 1604 670670  
Fax: +44 (0) 1604 670635  
E-mail: [inquiries@popperfoto.com](mailto:inquiries@popperfoto.com)  
Website: [www.popperfoto.com](http://www.popperfoto.com)

Scoopt Ltd  
Hillington Park  
Innovation Centre  
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Website: [www.scoopt.com](http://www.scoopt.com)

Victoria and Albert Museum (V&A)  
(Contains one of the oldest photographic libraries in the world)  
V&A South Kensington  
Cromwell Road  
London SW7 2RL  
Tel. +44 (0) 20 7942 2000  
Website: [www.vam.ac.uk](http://www.vam.ac.uk)

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- BAPLA (2007) *BAPLA Summer 2007 Newsletter*.
- Nelsson, R. (2006) Credible and Credited: the rise of the media librarians, *Library + Information Update*, 5 (12), 41.
- Taylor, C. (2007) Metadata's Many Meanings and Uses, *Ideography Briefing Paper*, [www.ideography.co.uk/briefings/pdf/PB\\_metadata.pdf](http://www.ideography.co.uk/briefings/pdf/PB_metadata.pdf).

## Chapter 4

# **Cataloguing television programmes**

HAZEL SIMPSON

With an afterword by Katharine Schopflin

*Television and radio programmes are catalogued for two reasons. First, a broadcasting organization or authority may wish to keep a record of the title, date and time a programme was transmitted. Second, anyone wanting to reuse transmitted or recorded material needs to be able to find it. For most of the history of television cataloguing, the cataloguing record has also stood as a surrogate for the programme itself, so that researchers know as much as possible about the footage they are seeking before they enter the time-consuming, and often costly, process of ordering and viewing a tape or can of film. Some television companies now archive their output as server files which can be viewed online by researchers. They are a tiny, but growing, percentage of the world's holdings of television output. However, for a researcher to locate the right bit of footage (an anachronistic term that will be used in this chapter about all moving images, no matter what format they are held in), this real media still needs to be described in words, meaning that cataloguing records are still necessary.*

*The bulk of this chapter will examine how the BBC (British Broadcasting Corporation, the UK's national broadcaster) catalogues its holdings of television output, one of the largest collections in existence belonging to a working broadcaster. The author, who has worked for BBC Information & Archives since 1988, primarily in its Television Archive, will examine the problems encountered and compromises made in attempting to make hundreds of thousands of hours of broadcast footage searchable and findable. In an afterword, the editor will contrast her experiences cataloguing using an online media asset*

*management system for an independent news producer, and the changes which ensued to their cataloguing technique after its introduction. Finally, she will mention the latest developments in automated cataloguing.*

## **Introduction**

The BBC's television cataloguing department is a small unit, part of the much larger Information & Archives (I&A) area covering many different research and archive holdings and services. It consists of a team of cataloguers providing a record of television output readily accessible to researchers by name, reporter, genre and subject. Members of the team catalogue using an online system called INFAX. They catalogue all programmes broadcast on the various BBC channels either by viewing them or by referring to production paperwork. The record they produce includes basic title and credit information, a description of the content and subject classification. Researchers can search the catalogue by directly accessing these references or by conducting a free text search across the shotlisting description and classification.

## **INFAX and the cataloguing system**

From the 1960s the BBC Film Library (as it was called then) catalogued using a subject card index. They did not catalogue the entire output of BBC television but described in detail any film content with high reuse value. During this time, cataloguers were unable to view output stored on videotape through a lack of facilities (meaning, for example, that a magazine programme containing both film and videotape items would only have the elements on film catalogued). A separate department, Programme Index, kept a record of programme titles, presenters and contributors but did not produce any subject cataloguing.

In 1984 an online catalogue was introduced. INFAX, as it came to be called (and will be referred to throughout this chapter), began as a videotape stock control system called VTOL. Over the years other elements, including a film stock control system, cataloguing descriptions and subject indexing, were added. Researchers could only access INFAX via a dumb terminal and each user required a separate login. However, it seamlessly integrated all the separate elements relating to the stock control and content descriptions of television programmes. Since then, other catalogues and stock control systems from Information and Archives' holdings have been added. Although

a system developed in the early 1980s is ancient in computer database terms, it is so integral to so many activities in the BBC that it has been difficult to replace.

Like most online systems of its time, INFAX was designed as a command-driven system for the use of highly trained experts. It is not user-friendly and cannot be used intuitively. Indeed, it looks little different today from when the author first started at the BBC in 1988. Features which would be unimaginable to database designers starting from scratch today include the lack of any 'undo' function (meaning that the accidental deletion of text is a major incident), an inability to scroll back through records when browsing a list of references or titles, clumsy word wrapping (so text disappears off screen forever if new words are inserted into a record after saving) and the limitation of characters in any text field (which has resulted in cataloguers using now-obscure abbreviations and truncations to fit text into the field). However, some improvements have been made. INFAX now runs on a terminal emulator within a Windows environment, so users can open it up and use it from their desktop. The biggest boon to users has been the introduction of a cut and paste facility, saving the need laboriously to write down complex classification numbers and retype them when searching.

### **What's in INFAX?**

Until the 1990s the BBC broadcast on two analogue television channels: BBC One and Two. When digital transmission technology became more widespread, they were allocated more channels using digital bandwidth. At the time of writing, there are four licence-fee-funded digital channels in addition to the two original terrestrial ones: BBC Three, BBC Four, CBBC and CBeebies. Over the years the numbers of broadcasting hours on each channel has also increased. This has led to a massive increase in the volume of programmes that require cataloguing.

The BBC Television Archive does not catalogue everything broadcast. Natural history programmes are looked after by a specialist department at the Natural History Unit in Bristol; purchased programmes such as films and overseas television series are not the BBC's responsibility (although programmes commissioned by the BBC from independent companies are treated in the same way as programmes produced in-house); sports programmes have their own library; and regional programmes, apart from



those made in London, are catalogued in local BBC libraries. However, in addition to programme output, the Television Archive catalogues the main daily news bulletins and stockshots drawn from untransmitted material.

BBC Television Archive's cataloguing policy is in fact now far less selective than in the past, when librarians only catalogued heavyweight programmes such as arts and science documentaries (for example, *Arena* or *Horizon*) and current affairs (*Panorama* or *Newsnight*). These types of programmes were subject-catalogued because they were considered more valuable in terms of research and reuse than other genres such as drama, light entertainment and comedy. Although it remains the case that programmes considered to have a high proportion of original and reusable content are given the most attention, programme-makers' tastes have changed. An increasing quantity of archive programmes (so-called 'clip shows') reuse comedy, popular drama and light entertainment and some of these (for example, *Pride and Prejudice* (1995), *Fawlty Towers*, *Blake's 7* and *Dinnerladies*) are now catalogued in more depth. The perceived value of a programme will govern whether it is viewed by the cataloguer, who then creates a complete shotlist, or whether they rely on paperwork produced by programme-makers, a process known as annotation level cataloguing.

Each television programme catalogued on INFAX is associated with an entry in an index of transmission called TILIST. This is an alphabetical list of (nearly) all programmes broadcast by the BBC since television resumed in 1945 after World War 2 (the BBC had previously offered a regular television broadcasting service between 1936 and 1939). In fact, TILIST is incomplete until the 1980s as until then it did not include programmes for which no recorded copy exists or to which the BBC no longer had rights of transmission. Researchers therefore will find no record of programmes before 1984 which were transmitted live or for which the film or videotape was wiped (something which was not uncommon for light entertainment or commercial music programmes considered to be of little future value, as videotape was expensive and reusable). After INFAX was introduced in 1984 all transmissions were included in TILIST.

## **The cataloguing process**

### **Viewed cataloguing**

Under the current system, cataloguers carry out viewed cataloguing work from a VHS cassette and shotlist the content from start to finish, noting

timecodes (the VCR counter being set to zero at the start of the programme). It is a time-consuming process due to the need to stop and start the tape and write down shot descriptions. Cataloguers then return to their desks and identify which categories the different shots belong in. Different categories include independent actuality (useful BBC-copyright moving pictures that do not include identifiable individuals), dependent actuality (where a named person is identifiable), interviews, library pictures and non-BBC copyright footage. They then assign the different shots to the appropriate categories and transcribe the rearranged shotlist onto INFAX. Indexing entries are then added.

### Annotation level cataloguing

In annotation level cataloguing, cataloguers do not view the programme, but use other sources of information as their basis, mainly production paperwork. The main source used is the so-called PasC or Programme as Completed form. This is a form which production staff are supposed to fill in with production details and records of the sources of all the footage used in the programme. However, PasCs do not arrive in the library for every programme. Additional sources used to complete the entry include BBC Magazines' television guide the *Radio Times*, press releases and, increasingly, the relevant web page on the BBC website, [www.bbc.co.uk](http://www.bbc.co.uk). When they are provided, cataloguers need to analyse PasCs for relevant information, as they contain a range of information for different purposes. If the PasC is unclear on any point, the programme may be viewed for clarity. Magazine programmes (programmes consisting of a series of small packages or interviews on different topics) such as *The Daily Politics* and *Working Lunch* benefit from this approach.

### Indexing

In addition to describing the content of BBC programmes, Television Archive cataloguers also assign classification references so that they can be retrieved by subject and personality. There are two levels of subject classification. The first level is that of the 'programme idea', which aims to encapsulate the subject of the entire programme. The second level covers individual elements within the programme that might be useful in the future, such as secondary subjects and themes and, in the case of viewed programmes, individual shots and sequences.

The classification system used by BBC Television Archive cataloguers is

called LONCLASS. It is an adaptation of the Universal Decimal Classification (UDC) scheme. LONCLASS stands for London Classification because it was developed for use by the main BBC film and videotape libraries which are based in London. The scheme was used for the original card catalogue and was transferred to INFAX in 1984. Even at that time it contained a great many classification numbers and it has grown since then. The large amount of class numbers and the even larger number of combinations of numbers that exist lead to quality control problems.

UDC was chosen as the basis of the TV subject catalogue classification because it is a faceted scheme. A faceted scheme allows different concepts to be linked together to provide a highly accurate description of a subject, something that is particularly useful when cataloguing television programmes which could be about literally anything. LONCLASS includes both general concepts such as GRAMMAR (for example, a schools programme on the grammar of the English language) and highly specific subjects such as JEREMY PAXMAN'S AGGRESSIVE INTERVIEW OF MICHAEL HOWARD (which was a specific moment in a broadcast from the current affairs programme *Newsnight*). Subject terms are linked together (or 'strung') using facet indicators, that is, punctuation which separates the different facets representing the subject and which indicate the type of facet (for example a number in brackets indicates the location the incident described took place). They allow precision and mean that researchers should be able to find specific things without having to wade through irrelevant material. Cataloguers place the different facets according to what is known in classification theory as citation order. This indicates the relevance of the different facets of the classification number to the topic and helps with the recall and precision of searches. Where LONCLASS differs from UDC is in the unique use of auxiliaries which advance it beyond a general subject catalogue to one aimed at singular aspects of television. For example, there are auxiliaries to describe camera movement (such as BIG CLOSE UPS) and movement within the footage (such as TAKE OFF to describe the movement of an aeroplane).

Although this sounds highly specialized (and the work of classification certainly is highly skilled), its purpose is simply to make sure that similar material is filed under the same classification number. Researchers do not need to know the classification number to find a topic, but can interrogate the system using natural language. Their results should be very precise,

however, as although a concept will be identified by a single classification number, it will be associated with many different synonyms and subject terms. This is LONCLASS's great strength and enables subjects which have come to be described in very different ways or have changed their names to be filed together. This is essential in a catalogue which covers decades of something as ephemeral and finely attuned to popular culture as television programming. For example, the term HEATHROW AIRPORT files under the same classification number as LONDON AIRPORT, although it is unlikely to be referred to by this name in a television programme or its cataloguing description. Countries like ZIMBABWE (formerly known as RHODESIA) or organizations like ROYAL MAIL (which at one point was known as CONSIGNIA) also have the same classification number but can be retrieved by either term. Problems caused by synonyms are also avoided as, for example, a single classification number is used for the terms DIRECT MAILING and JUNK MAIL (and for LORRIES and TRUCKS). The researcher will bring up all the entries associated with the topic regardless of which term they used to search by.

Complicated topics can produce unwieldy subject terms, made up of individual concept descriptions separated by slashes. To avoid this problem, cataloguers create new headings attached to the complex numbers. For example, researchers looking for references about the ongoing ethnic tension in Kosovo could find them all filed under the heading KOSOVO SITUATION rather than the string VIOLENCE/RACISM/ALBANIANS/SERBS/KOSOVO. They will find the same references under the terms RACIAL CONFLICT BETWEEN SERBS AND ALBANIANS IN KOSOVO or KOSOVO RACIAL CONFLICT BETWEEN SERBS AND ALBANIANS. Classification numbers such as this one, which cover long-term ongoing stories, are also known as 'cover numbers' and are added to all stories or items related to them. Another example might be a news story about a car bomb in Baghdad, which in addition to classification numbers indicating car bombing will also have the cover number POST WAR SITUATION IN IRAQ 2003, as would the death of British soldiers in Basra. This means, for example, that somebody producing a documentary on the topic in 20 years' time should be able to retrieve all references.

The powerful search possibilities offered by stringing (combining smaller numbers which represent different facets) is diluted by a number of problems. The volume of search terms in the scheme can often feel overwhelming. Classifiers are not always consistent when they combine numbers or reverse the facets in their indexing. Some do not follow the

classification rules. And problem classification numbers, known as SIQ numbers, also appear. SIQ numbers are classification numbers marked in the scheme with this code to indicate that they are duplicates, over-extended or just plain wrong.

Duplication, where two numbers representing the same subject appear, is not a common problem and duplicates are usually removed whenever possible or one number chosen over the other. Over-extended numbers, where too many irrelevant terms are added to a single number, are perhaps the most exasperating problem. The number for WOMEN is the same as the number for GIRLS and the same applies to MEN and BOYS. So a researcher looking for footage of girls playing football would have to wade through many items showing women playing football. GREEN BELTS and PARKS is another frustrating example among many more. Some numbers are simply wrong. The number attached to the term for HOUSES OF PARLIAMENT is marked as a SIQ number because it consists of the number for parliament buildings, 725.11, followed by the number for the location Westminster (421.221) and an incorrect name extension, which means it often doesn't translate correctly into natural language. Thus, the number appears as 725.11 (421.221 HOUSES OF PARLIAMENT), whereas it should be 725.11(421.221) HOUSES OF PARLIAMENT. The term ILLEGAL COAL MINING, at 343.7:622.33, has been given a classification number which puts it in the wrong place in the subject schedule, so if someone is browsing by classification number rather than searching using natural language the classification numbers preceding it and succeeding it are not relevant. In this case, the classification number for CRIMES AGAINST PROPERTY, 343.7, has been used to make up the number, so it files near crimes such as mugging and burglary and translates into natural language as OFFENCES (AGAINST PROPERTY)/COAL MINES.

When people appear in or are referred to in a programme they are normally given name references, rather than classification numbers. A huge authority file of contributors is kept up to date and efforts are made to ensure that references to the same person are kept under the same name. It is a challenge for the cataloguer to identify that an expert with a very common name appearing in an interview, say, representing Oxfam was the same man who five years earlier was described in the authority file as 'Smith, Andrew (Amnesty International)' (this example is fictitious). In exceptional circumstances, certain people are also identified by classification numbers, meaning they can be retrieved not only by their name reference,

but also by subject classification. For example, a documentary on the Queen will have references for her name and the classification number for QUEEN ELIZABETH I (ROYALTY). With this example, as the Queen is someone who appears so often in television programmes, any interesting footage of her carrying out specific actions would also be classified. For example, if there were moving pictures of the Queen on horseback, the classification number would be added represented by the term BRITISH ROYAL FAMILY\_ELIZABETH I QUEEN ELIZABETH II (ROYALTY):HORSE RIDING.

As with any procedure carried out over a number of years by large teams of workers, cataloguing in the BBC Television Archive is not always consistent. Individual cataloguers may tackle different programmes in the same television series with different approaches, laying out the cataloguing entry in a different way, producing differing amounts of detail, more or less indexing and even describing the overall programme in a different way, although consistency is encouraged by the creation of templates for regular television series. Some programmes in a series may not deserve as much detail as another: one week's episode of the current affairs programme *Panorama* may be full of archive or reusable independent actuality, while the next broadcast may be full of interviews, so the same detail would not be required. Although consistency is important to help guide researchers through the process of finding what they need, the advantage of having a range of approaches to cataloguing is that it may reflect different researchers' understanding of the catalogue. It is impossible accurately to predict how every researcher now and many years into the future may choose to search or understand a cataloguing entry and the one cataloguer who adds a particular index term may help a researcher locate a programme or some footage they otherwise would not have found.

### **INFAX's users**

The BBC Television Archive catalogue can be accessed in a variety of ways by anyone (although as of July 2007 the publicly accessible web catalogue is still incomplete and being trialled). Until recently, the catalogue was only available to BBC staff either by terminal-based access to INFAX (the native, 'blue-screen', version of the database) or via its web-based version found on the BBC's intranet site. The terminal-based INFAX requires a login and password to use it and entries can only be edited in this version. Staff throughout I&A are allowed access to the native version with varying

degrees of permissions. Staff in the rest of the BBC tend only to use the web-based version. With this they can access cataloguing information for television programmes (and the other archives which use the database) but not information about holdings or the classification schedule.

What used to be a closed catalogue is now an open one. What used only to be available to librarians in the enquiries department, who fielded telephone calls and ordered up VHS cassettes for customers, is now available to all. Consequently, problems relating to abbreviations, consistency and specialist terms have been exposed to the non-expert researcher. All catalogues use specialist terms unique to the content of the catalogue and INFAX is no exception. Cataloguing descriptions include common terminology used in shot description such as 'ls' for long shot or 'mcs' for medium close shot, which stand a reasonable chance of being understood by broadcasting professionals, although not by members of the public. INFAX also contains exclusive terminology such as 'acty' for actuality and 'sp s' for specially shot. Another factor which has been discovered since the catalogue was opened up is the presence of what we now see as old-fashioned language. For example, cataloguing entries from before the 1980s will describe both female children and young adult women as a 'girl'. Researchers can only tell from the context which of the two is actually depicted. What is now seen as offensive language may also appear and contemporary researchers are unlikely to carry out a free text search using problem words such as 'coloured', 'spastic' or 'dumb' (although the classification number will also be associated with what are, in current language, more acceptable terms).

Moreover, in order to cram as much information as possible into character-limited fields, cataloguers accidentally developed a new language many years before the emergence of text speak. Abbreviations like 'ppl' for people, 'w' for with, 'abt' for about and 'hosp' for hospital are self-explanatory, but some abbreviations may have seemed clear to the cataloguer when they originally used them but have become less so with time. Even when the meaning of these abbreviations is clear in the context of the cataloguing entry, they are often ugly and break up the flow of the text. More importantly researchers will not find them using a free text search: no one is likely to look for 'Hammersmith Hosp' rather than 'Hammersmith Hospital'.

This was something which mattered less when all the searching on the catalogue was done by qualified librarians who had once been cataloguers

themselves, as they knew to search under the classification term for HAMMERSMITH HOSPITAL rather than in the free text. But now that INFAX is searchable on the web by end-users who mostly only know how to carry out free text searches, there is the danger that searchers are missing out on important entries because their searches are producing false negative results (and it is a feature of research that people do not know to look for what they do not know exists). Free text searches are, moreover, likely to produce a high recall in results (it was precisely to avoid this that such a complex classification system was developed in the first place) meaning that the researcher will either need painstakingly to browse through pages of results or will simply choose the first results that appear and possibly miss out on the most relevant footage for their programme. It is not possible to go back over all the catalogue entries (there are literally hundreds of thousands) to redo previously abbreviated descriptions but, since the introduction of the web browser made the catalogue available to non-expert researchers, the use of abbreviations has been strongly discouraged among cataloguers.

### **The future**

At time of writing, LONCLASS has been in use for 40 or more years and INFAX in its current form for nearly 15, which is a testament to its robustness. Future developments include the proposed introduction of computer-assisted indexing using the LONCLASS classification scheme. It is hoped that this will speed up the process of indexing and enable an ever-increasing quantity of broadcast output to be retrievable. Such software needs careful training and correction, however. There are no plans to replace all cataloguers with an automated system at present.



## **Afterword: cataloguing using a media asset management system at ITN**

**by Katharine Schopflin**

ITN (Independent Television News) is an independent news provider making news bulletins for commercial British terrestrial television channels. It additionally runs a busy archive sales business, ITN Source, which introduced a digital asset management (DAM) system into the business in July 2006 for the use of cataloguers and researchers. From this time, cataloguing entries included not just shot descriptions, time codes and tape numbers, but quick-time versions of the actual footage to which they referred. Footage that ITN has the rights to sell also publishes onto the open web on the website [www.itnsource.com](http://www.itnsource.com) and can be purchased using an e-commerce system (although the majority of sales still take place using ITN Source's sales team). The introduction of the system has changed the emphasis in the cataloguing of new material from describing individual shots in detail, to summarizing the pictures using well-chosen words and ensuring only appropriate material will be published to the ITN website.

New activities carried out by archive staff using the DAM system include republishing archived clips onto a dedicated server under agreed naming conventions and attaching these clips to cataloguing shotlists. There are also changes associated with material being published on the world wide web. Clearly, ITN can only publish material on the open web which it has the rights to sell. Copyright sourcing had always been part of ITN shotlists, but now the assignment of copyrights to individual pieces of footage is a vital part of separating material that ITN Source can sell, and which can therefore publish onto the website, from those which cannot. Shotlisters now have the responsibility to divide specific frames (there are 24 frames per second of moving pictures) from those which will publish and those which will not.

As footage now has a publicly accessible life much longer than the original broadcast, cataloguers also now need to assign restrictions on saleable pictures to prevent the publication of material which may have been licensed for a single broadcast (such as commercial music) or agreed for an individual programme (such as the appearance of minors). Other restrictions might be added onto material which was not broadcast on UK television, as it comes from one of the archives ITN Source has been commissioned to manage by a third party. Output from these 'partner archives' (most notably the news wire service Reuters) may include footage

not acceptable to UK viewers on taste and decency grounds and a restriction might therefore be added to prevent it being published on the web. Because the pictures on the web can be accessed by anyone in the world with internet access, one highly important area of restriction concerns anonymity risks, where an individual facing civil liberty restrictions in a foreign territory might be comfortable with being filmed for broadcast in the UK, but whose life might be endangered if the same footage were seen in their own country.

There are now four categories of researcher searching the ITN catalogue: a small number of expert archive researchers working for ITN newsrooms; news staff, normally journalists, who are expected to carry out most of their own archive research; ITN Source sales staff, responding to queries from external clients wishing to buy footage; and members of the public. Researchers in the first three categories access the catalogue on the ITN intranet and have access to all footage that is archived, regardless of copyright and restrictions (although copyright and restriction information is made very clear in the cataloguing entry and it is their responsibility to make sure they use the footage responsibly). Members of the public can access all the catalogue entries (except in a few cases where restrictions will exclude cataloguing text from publication, normally for anonymity risk reasons), browse saleable footage and in some circumstances even purchase it online.

As at the BBC, increasing numbers of non-expert researchers accessing cataloguing entries has changed the way ITN shotlisters catalogue. Difficult words, abbreviations and technical jargon are kept to a minimum, or are explained in parentheses in cataloguing entries. This is important not just for those accessing the catalogue outside the industry (for example, those wishing to license material for educational purposes) but also for younger people working in broadcasting, who may lack experience or expertise. This particularly affects those working in independent production, where staff often carry out a range of tasks including production management, reporting and videotape editing as well as archive research, and may not be expert in the latter.

Unlike at the BBC, there is no subject classification in the ITN catalogue, which means that shotlisters are encouraged to include as many synonyms as possible to enable current and future entries to be retrieved. This does not, of course, help with older shotlists which may only describe the footage in the language used at the time and depend on researchers trying

out different search terms in order to find the footage they are seeking. This problem may be solved in the future when it is hoped that an element of language control will be introduced, possibly by allowing the search to reference a taxonomy so that, for example, a researcher looking for early material showing nuclear power stations would find them even though the original shotlister had described them with the term 'atomic power', a term they might never think of using.

A more radical change to shotlisting style than the extension of the catalogue to new users is the fact that the cataloguing entry no longer needs to act as a surrogate for the film. This means that complex shot descriptions (which may use terms like 'close up', 'low angle view', 'tilt down', 'pan' or 'track' to describe specific camera angles or movements) are not necessary as the researcher can see what the pictures look like themselves. Moreover, whereas ITN shotlisters had previously listed every shot that appeared in a piece of footage, they can now summarize a sequence in a single sentence. For example a sequence which might previously have been catalogued like this entirely fictitious entry:

Black car arriving at hospital carrying Tony Blair MP (Prime  
Minister) and others PAN Car stopping and Blair exiting  
Close up of Blair greeting hospital officials PULL FOCUS  
General view of hospital in background  
Blair and officials into hospital

would now be more likely simply to appear as 'Tony Blair MP (Prime Minister) arriving at hospital, greeting officials and entering'. How much extra detail is added depends on how much information can be gathered and how important the shotlister deems such information as the make of car, names of hospital officials, what Blair is wearing or which wing of the hospital is being visited. This makes the cataloguing entry far simpler to read and allows the shotlisters more time to consider which words really add value to an entry to help a researcher find the pictures they need and, potentially, to catalogue a far greater volume of material in a shorter period of time.

## **Automated cataloguing**

Cataloguing television programmes is a time-consuming process, requiring

significant numbers of expensive skilled employees. While it is accepted by many television companies that there is significant value in having their moving images retrievable for reuse or resale, they are understandably concerned to find ways of speeding up the process, especially as the quantity of output increases to fill increasing numbers of broadcast platforms. One area currently being developed is that of automated cataloguing, whereby artificial intelligence enables computer software to recognize images and describe them, so that previously unsearchable pictures are converted into text which can then be interrogated by an online search. There is increasing scientific research into this area and a number of commercial database companies offer products which claim to carry out automatic or computer-assisted cataloguing.

Information the software might look at to decide what the pictures are about includes voice-over descriptions, on-screen captions and analysis of the pixels making up the picture. The latter might enable the software to recognize that a particular arrangement of pixels was a dog, a sunset or even President George W. Bush, particularly if the software were given extensive training. However, in the editor's opinion, research is at an early stage and any software faces considerable limitations. First, any cataloguer will bring a range of knowledge, research and external information sources to their analysis of moving images, of which voice-over narration and captions are only two. Second, these latter very rarely describe the pictures, as they are seen by broadcasters as providing information which is not immediately apparent in the pictures (this has also been a limitation in the automated cataloguing of still images, whose captions rarely describe what is in the picture). Third, in cataloguing, context is all. The fact that software can recognize that a set of pixels is President Bush may not help establish that, in a specific sequence, he is visiting a US airbase on a day in which his party has had a poor showing in the opinion polls. Similarly, even if (as is not yet the case in any of the commercial products) the software could identify that a dog was a pit bull terrier, it could not suggest whether this was a banned breed of dog in the country in which it is depicted.

As has been seen in this chapter, the challenge for television cataloguers is to make moving images findable by describing them using words. One of the great advantages of words is that, in addition to being searchable in free text, clusters of words can be associated with specific concepts, and automated cataloguing products also often include automated classification

(or computer-assisted indexing) software. This kind of software, which can be seen in commercial search engines such as Clusty ([www.clusty.com](http://www.clusty.com)), develops semantic relationships between words so that, for example, the word 'pit bull' would be associated with the word 'dog' (and may even identify one concept as a subcategory of the other). It may or may not reference an existing taxonomy, in which an information professional has already made the associations between the terms. However, although useful in many ways, this software also remains at an early stage of development and remains, in the editor's opinion, something of a blunt instrument although perhaps useful as a preliminary sorter before proper classification is carried out by librarians.

Finally, as this chapter demonstrates, the range of complex issues facing television cataloguers is constantly changing and as human beings cataloguers can respond to those changes. Most offer excellent value for money in identifying the importance of what they see and describing it accordingly, not only for expert or contemporary researchers, but for anyone searching the catalogue long into the future. The development of media asset management systems means that the value of assigning copyright sourcing and judging the appropriateness of an image to be published is greater than ever. It may be that, as automated cataloguing software becomes cheaper, it will be more economical than a person in describing and classifying large quantities of moving images, particularly if they are of a routine and repetitive nature (for example, footage of parliamentary or courtroom sessions). At present, the value added by intelligent television cataloguing would be hard to surpass in an automated product.

## Chapter 5

# **The virtual media library (II): managing online subscriptions**

JOANNE PLAYFOOT and  
KATHARINE SCHOPFLIN

*Most modern media libraries are as much, if not exclusively, virtual spaces as physical ones. Holding reference information in online databases rather than books on shelves has given many managers the idea that the library can be dispensed with. Yet authoritative subscription products do not appear on the company intranet or desktop by accident. Considerable work has been put in by those managing the subscriptions, to ensure that the right product has been selected, at the right price, on the right platform in such a way that their users can access it transparently and know how to use it. They may also have given time to send regular feedback to the online publishers or attend focus groups to ensure that the product remains useful and relevant. Many of these issues were faced by librarians managing reference subscriptions in hard copy. However, new issues have emerged which are specific to products being online, issues which media librarians, normally the earliest users in their organizations of online products like Dialog, DataStar and FT Profile, are ideally placed to confront.*

*The authors have extensive experience administering and managing online subscriptions. Joanne Playfoot manages the InfoCentre information team at IPC Magazines, publisher of consumer and lifestyle titles. Managing and controlling users' access to subscription products within the library has given their unit new status and prominence within the organization. Katharine Schopflin has worked with online subscriptions for a number of employers, most notably for BBC Information & Archives' research.gateway intranet site, where she acted as the liaison point between vendors and users. They bring their experience to examine*

*some of the main issues that emerge when managing online subscriptions and why it is important this is done by information staff. A media library's news database subscription is likely to be at the centre of its subscription portfolio, and this chapter looks at this kind of subscription specifically first. However, many media libraries also subscribe to online products offering future events information, biographies or material concerning subject specialisms such as finance, celebrities or defence and the chapter also looks at more general subscription management issues.*

## **History**

In a talk given in 2004, Ian Watson neatly summed up the gradual opening up of online access from the specialists to the end-user:

Until the early 1990s the internet was a world inhabited by scientists who had access to expensive mainframe computers. In the 1970s online information hosts such as *Dialog* and *DataStar* began the creation of a quite separate electronic information world, this one inhabited mostly by librarians and information specialists who acted as intermediaries. The arrival of the World Wide Web in the early 1990s forced these two worlds into collision, thrusting online information into the mainstream of popular culture and changing for ever the nature of the information business.

When Joanne Playfoot began working in the InfoCentre at IPC Media in 1999, they were one of the only departments with internet access, so it made sense for them to be in control of the company's access to online information. The original products to which the InfoCentre subscribed were Lexis Research, Dialog and, for a short period, the Companies House database. They also subscribed to hard copy versions of *Spotlight*, *Foresight News*, *Entertainment News* and *Red Pages* among other titles, all of which they subsequently subscribed to online. At this time the majority of research using online databases was undertaken by the information team, not the journalists, although a few had individual access to LexisNexis or used it in the InfoCentre.

News databases, collections of newspaper articles disaggregated from the newspapers, were one of the great innovations of 1980s, allowing information professionals to use keyword searching with a sophisticated command language to search many publications simultaneously. At the end

of the 1990s, providers began to develop web-accessible versions. By the early 2000s, it was perceived that the end-users in media organizations were using the internet and ready to do their own online searching. At the same time, the publishers of stalwart library reference works such as *Encyclopaedia Britannica* and the *Oxford English Dictionary* began to offer online versions of their products (some of which had previously been available in electronic form via CD-ROM). The numbers proliferated during the decade and products like KnowUK, XreferPlus (now called CredoReference) and Oxford Reference Online acted as virtual mini-libraries, allowing users to search many publications simultaneously. These too could be rolled out to end-users.

Their experience handling hard-copy subscriptions meant librarians had the right skills to manage and control the acquisition and usage of these products. New roles emerged specializing in the particular issues concerned with electronic products. At the same time, many managers felt the availability of online products meant librarians were themselves no longer necessary, that they were defined not by their searching and evaluating skills, but by their ownership of information products. Giving journalists access to online newspaper archives encouraged libraries to cease employing staff to classify newspaper articles by subject and personality and cut and file them. The world was to become free of hard copy and seamlessly online. As we shall see, the issues are complex, and implications far from straightforward.

## **News databases**

### **Introduction**

In many media organizations, the news database is the only product which is made available to all users and for all it is at the heart of their 'electronic library'. These databases are the literal online manifestation of the main function of the traditional news library cuttings 'morgue'. If a library rolls out a news database across their organization, the subscription is also likely to be far and away their most expensive product; in some cases it may even cost more than staff or accommodation.

There are currently several news database products on the market. At IPC they subscribe to LexisNexis News and Business. This replaced a previous subscription to LexisNexis Professional and gives them access to newspaper articles, company reports, industry and company information and biographies. The IPC Press Office subscribes directly to LexisNexis



Professional as they require daily news alerts, something not available on News and Business, but their subscription gives them access to news and biographies only. Until recently, the two other market leaders were Thomson Business Intelligence, which no longer markets its product Dialog, and Dow Jones' Factiva. They all have fairly comprehensive coverage of the main UK and US newspapers but have exclusive content (for example, Factiva is stronger on Australian newspapers than its rivals). New entrants into the market include Moreover and NewsBank. This chapter does not propose to analyse in detail the various products' advantages and disadvantages, but which you choose will depend on your needs as regards content, user interface, price (both actual costs and pricing model) and customer service.

In the early 1990s UK newspaper libraries, led by Associated Newspapers' Steve Torrington, set up what was known as the Fleet Street data exchange (Nelsson, 2006). The libraries were paying huge fees to access online content which, in many cases, had originated with their own organizations. The system, overseen by the relevant collecting agency, the Newspaper Licensing Agency (NLA), allowed participating libraries to exchange their own paper's news feeds for access to those of other people. Today the system includes the main national daily newspapers, so subscribers need only use their online products for other publications and more complex searches.

### Customized user interfaces

The off-the-shelf product sold by their news database vendor meets all the needs of many libraries, whether it is only used in the library or is rolled out to end-users. Others feel that the 'native' product is too specialized and complex for end-user searching, although most vendors have redesigned their products in recent years with the non-expert in mind. In this case they may opt to develop a customized user interface (CUI) in which content, searching options and design are specially tailored. At IPC, the CUI was developed in 2003 as a joint project between the InfoCentre team and Lexis engineers. The idea was to reduce over-usage of the system and bring down costs so that they could maintain an affordable subscription with the provider. Media libraries vary in their approaches. At the *Guardian* end-user access is given only to the Fleet Street data exchange content. Users need to come to the library if they want a search carried out on their subscription product, Factiva. This means that the expensive subscription product is only

used by expert searchers and only where sources other than the UK national daily newspapers are not sufficient.

## Content

To cut costs, IPC limited the number of sources available to search, while still providing a range of national and international publications so that users could access good overall source material. On their CUI, users cannot search an 'All Publications' group. Instead, the InfoCentre selected publications to make up their own bespoke groups. Some of these, such as 'UK Tabloids' and 'UK Broadsheets', were straightforward. Others, such as 'US Major Nationals', were chosen from the publications with the biggest circulation around the country. Others were standard source groups supplied by LexisNexis themselves, such as 'Major World Newspapers'. If anyone requests a specific source that is not available on the existing screen, InfoCentre staff still have access to the off-the-shelf product and can carry out the research as an enquiry.

## Search screen

It was decided that IPC journalists and editors were unlikely to spend much time on the 'Power Search' (or advanced search) screen of the database (although it was of course retained for expert searchers). Instead, the 'Easy Search' page was tweaked so that it suited IPC users' needs. InfoCentre staff undertook a number of interviews with regular and heavy users of Lexis to see what sort of methods they used to search and how they used connectors and keywords. For example, in addition to the basic possibilities offered on the off-the-shelf screen, they added some more specific and straightforward commands such as '3 or More Mentions' and 'At the Start' in the drop down boxes for the end-users. On the advanced search screen, an information professional would know the command language needed to gain this specificity (in these cases 'atl3' and 'hlead') but this approach gave journalists the opportunity to search more accurately without having to know the technical jargon. They also added an optional page for users to search specifically for biographies.

The biggest customization of the search screen was the addition of a number of preset search strings which the end-user could add to their own keywords to produce more specific results. These strings included around 20-30 pre-selected keywords chosen by the InfoCentre team. These options

were added to give focus and precision to the often vague searches carried out by end-users, many of whom did not even use the preset commands in the CUI and rarely used specific enough keywords. Their recall was huge and most had neither the time, the experience nor the patience to scroll through them and would simply choose the first two examples or abandon the search. Others have found journalists are often prepared to give up hours of their time to trawl through useless results rather than speak to a librarian who produces accurate results in minutes (Dunn, 2005). In neither case was it typical end-user behaviour to return to the search screen and focus their result using more keywords or field searching.

Developing a CUI is one of the few means librarians have of controlling how their users access information in the online world. When they were the gatekeepers to information, media librarians could make sure that if incorrect or incomplete information was published or broadcast, it was not down to them. Now, we have no way of stopping journalists consulting any number of unreliable sources and using poor searching techniques. Guiding end-users through good design and limiting content is one means of controlling both what they retrieve and how much it costs. It can also raise the profile of the library among its users. At IPC, enquiries increased after the product was rolled out partly because users became aware of other products and services they offered as a result of attending training sessions (Playfoot, 2006).

However, CUI development can be both an expensive initial cost (the vendor is likely to use a third party designer and charge you for this) and cost time and money to maintain. For example, you may have agreed to have your library logo or telephone contact number as part of the interface. If either of these should change (no doubt the result of organizational developments beyond the library's control) you may well be charged to update the site, even if you pay a monthly maintenance charge for support in addition to cost of the actual content. And feeding back problems to the supplier from what may now be thousands of end-users can require a new full-time post (as happened when the BBC rolled out their CUI in 1999). Moreover, the rate of change on the web is fast. Your interface may look out of date very quickly and no longer meet the needs of users whose experience with online products will be different from when you developed it. Changing the look and feel of a site can attract complaints from loyal users but leaving it unchanged makes the library look old-fashioned and out of

touch. If development money for a redesign is not present, you may find yourself buying the off-the-shelf product, which has been developed at the vendor's expense, after all.

## Training

Whether they subscribe to an off-the-shelf product or use the native product, libraries have the choice of training end-users themselves (and they are likely to be the most expert users) or using a trainer supplied by the vendor. The advantage of the former is that it provides a showcase for library searching skills and lets users know that if they are unable to find something, it may not mean that it is not there. Assuming there is still an enquiry service offered, they can then go to the library for help. This also gives them more flexibility in terms of when, where and how the training takes place. As a previous chapter indicated, journalists are reluctant to attend anything called a training session and the best results come from targeted one-to-one coaching. However, training consumes large quantities of staff time and if your library is heavily involved with processing data or has a heavy enquiry load, you may find it easier to hold external training sessions. If you can, make sure these are included in your contract, as vendors often charge high fees for training. Some vendors will be happier to offer free training than others. Under a contract they held in the early 2000s, the BBC's then supplier LexisNexis offered users of the native product free sessions in economical searching.

Young journalists are increasingly used to having access to online news databases and, in a change in user behaviour from some years ago, are likely to expect one to be available when they start working for a media company. To capitalize on the already perceived value of their product, when LexisNexis was rolled out at IPC in 2003, it was advertised throughout the organization, but access was only given to staff visiting the InfoCentre first for training. New joiners still attend an hour-long training session in order to receive their passwords. Initially, IPC staff trained staff themselves but headcount freezes following staff departures made this impossible. Today LexisNexis themselves carry out the training but the sessions are specifically designed around their CUI. IPC have found that training is a good way to regulate and monitor usage and provides useful information to bring to the negotiating table when the contract is up for renewal. The InfoCentre also sends each new user an easy-to-use guide to the interface, which should

help them after the initial training session. They are also entitled to contact the library with any enquiries about the best methods to use.

### **Subscription rates**

Vendors offer various different charging models. In the days when users, mostly information professionals, used the native online product, one supplier charged users for the time they were connected plus a charge per line of text downloaded. Where this was made available to end-users who lacked searching skills, the costs were phenomenal. Other models gave users a set amount (say 20 hours) of connect time per month for a flat rate, which was more economical, but users were apt to run out of credit before the end of the month and buying more hours was twice as expensive. Most common now is a model whereby users agree a monthly rate, which is monitored by the vendors (based on document downloads). If they spend more than the agreed amount, expensive penalties ensue. Where CUIs are developed it is possible to negotiate an annual charge for unlimited usage, based on the sources included in your product, possibly including charges for technical support and development. This is an expensive option. Sometimes models are combined. At one point BBC Information & Archives were paying a flat rate for the content on their CUI, but were also paying a monthly charge for the native product which was only available to information staff.

End-users are apt to overuse news databases, even after training. Overuse is more often a feature of media organizations where there is no information department. At ITN, where the news information department was closed in 2001, newsroom staff used LexisNexis on a rate of ten times more than the agreed monthly rate. As there were no penalties under the terms of that contract, this did not matter at the time, but was an issue they had to face when the contract expired. IPC initially suffered heavily from overuse by end-users, paying penalties for usage which their own expert researchers would never have incurred. In 2004, on the insistence of their provider, their previous flat rate was changed to charge for usage. This is monitored by the InfoCentre and they have the authority to report overusage to end-users' line managers and insist that the user undertake more training. If they refuse, their access to the database is removed.

### **Managing other subscriptions**

It is to the advantage of an organization to have subscriptions controlled

centrally, rather than scattered across the company under limited-user licences. Many vendors know that they rely on good relations with their libraries, but the less scrupulous will target end-users directly, even when they already have access to the product via the library. After all, it is the library's fault if they have not promoted the product sufficiently that the end-user is aware of it. It can be a good selling point for libraries under pressure to prove their worth by showing how much money they can save the organization by selecting good products and negotiating competitive rates for their use across the whole organization. At IPC all but one or two company-wide subscriptions are now managed by the library.

Heslop and MacDonald observed (2007) that providing access to these subscriptions can reduce the number of simple queries received by the library, leaving staff time to deal with more complex requests. Most end-users are capable of querying online biographical or encyclopaedic databases. At the *Guardian*, *Who's Who* and *Encyclopaedia Britannica* sit on the home page of ResearchNet, their research intranet, and users click on a link to be taken directly to the external site. At IPC the experience has been slightly different. Although the InfoCentre receives a large number of enquiries they tend to be requests for hard-copy archive material. This is significant at IPC as they hold cuttings files taken from publications not available online (such as women's lifestyle magazines) and classified in ways not easily accessed online (for example, subject areas like 'star-crossed lovers' or 'speed dating'). They also carry out online enquiries but these tend to be quick reference requests.

## Choosing your products

At IPC, where the majority of publications concentrate on celebrity, lifestyle, hobbies and 'real-life' stories, they subscribe to the following titles:

- Red Pages (Profile Group)  
This resource is requested daily. It is mainly used by journalists to find contact details for major figures for interviews and publicity.
- Foresight News (Profile Group)  
This is used on an ad-hoc basis to find out about upcoming events such as charity events, film premieres and releases, interesting public days (humorous, political, social awareness, and so on), which can then be used in forthcoming issues of all the company's magazines.

- **Spotlight**  
This provides contact details and credits for all actors, not necessarily well known ones (who are the only ones who would appear in Red Pages).
- **Cameo**  
This contains addresses taken from the electoral roll. It is heavily used by reality magazines when trying to contact people for possible follow-up stories.

What you choose in your own library will depend on what you publish or broadcast but the selection of titles is a key skill. Libraries should bring their experience of hard copy products to help them evaluate the product once it has become available online. The experience of research staff is invaluable when selecting titles as they are in the best position to anticipate journalists' needs. However, if you are subscribing to online products on the basis that you are receiving fewer research requests, or expect to be in the future, then your data may be out of date. Journalists may already be finding information elsewhere and only using the enquiry service to fill the gaps.

If you manage your online subscriptions separately from your enquiry team, you are likely to meet resistance from research staff who see the rolling out of these products as a threat to their positions. Careful diplomacy is needed as you will need their help. They are not only the most knowledgeable of end-user needs but also the most expert in the organization at online searching. Moreover, librarians' knowledge of the range of sources available means they are less gullible than end-users when it comes to selecting sources. At the BBC they once trialled a database which aggregated material on the subject of international terrorism. Users in the newsroom embraced the product, saying they simply could not afford to be without it, until information staff pointed out that most of the content on this expensive product was available either free on the web or from existing subscriptions.

When online end-user products first appeared, there were few enough of them that many libraries simply subscribed to their most-used reference books online. At the time the publisher would often provide a free hard copy as part of the deal. Today, there are so many products available that careful selection is needed, especially since your acquisitions budget is not likely to be larger and online products are far more expensive than their hard copy equivalents (at IPC their budget was cut at just the time their subscription

costs increased). Ironically, as Katharine Schopflin warned in 2003, the online library can be less diverse than its hard copy equivalent. Where a library may once have had access to country information from hard copies of books from Europa Publications, *The Statesman's Yearbook*, *The Economist* and *The World Guide*, which represent radically different world-views and collect statistics independently of each other, they are likely only to be able to justify subscribing online to a single one of these titles.

Bear in mind that you do not own anything in an electronic library. Whereas you could keep your hard copy reference books for as long as you could afford to store them, your online subscription only purchases you temporary access. If you let the subscription lapse, you do not retain access to less up-to-date information. Electronic journal providers are increasingly providing models whereby users, which are mostly academic libraries, can retain access to archives even if they no longer subscribe to new issues. However, the information contained in most online reference works is not discrete and cannot be separated. There is no such thing as a 'snapshot' of the 2007 edition of *Encyclopaedia Britannica*. It changes every day.

## User testing

Most online products are available for free trial periods. It is a good idea to assemble a group of tame users who can try the products out in real-life situations. Ideally these would include end-users, but in reality it is very difficult to find volunteers. At IPC magazines they found that the effort to gain any feedback from them was not worth the results and today subscriptions are tested in the InfoCentre by information staff. As people who interrogate online systems every day, most research librarians have a good idea of good and bad features of online products, if they can spare the time to help. However, you can speed up the process by devising a pro-forma.

It is also an essential part of the library's role to attend focus groups and user-testing sessions with your vendors. This will make sure that the content, design and searching experience has more of a chance of suiting your end-users. Vendors design their products to reach as wide an audience as possible. In the early 2000s, Katharine Schopflin found several times that vendors changed subscription products radically without consulting or even informing their customers, to suit other markets or territories. More is known about usability now, but it is important to be proactive in this matter and keep in touch with your providers.



## Site licences

As with news databases, the library can choose whether they keep their online subscriptions within the library, or roll them out to the whole organization. If they do the latter, they are likely to purchase a number of site licences, which allow an agreed number of users to use the product simultaneously. Subscribers need to guess in advance how popular a product is likely to be. Sometimes this is impossible to tell until the library starts to receive complaints from end-users who are unable to access it because too many people are already logged in. With time, usage statistics will help to inform the decision.

Some suppliers will sell unlimited user access to media libraries based on the number of people within the organization. For popular products, and to avoid disappointing end-users, this can be well worth purchasing. However, it is worth noting that it can be expensive for media libraries which, even if they are in the public sector (that is, are national broadcasters), are charged a 'commercial' rate far higher than that charged to public and academic libraries. Moreover, large media companies may have a huge staff of which maybe only a small percentage are ever potential users of the product. Librarians should bring these aspects to the negotiating table.

## Technical issues

If the library controls access to online subscriptions, they are likely to be the first point of contact for complaints if technical problems arise, even if this is due to a remote technical failure nothing to do with their organization's network. It is important to build good relations both with internal IT staff and with the technologists who develop the products for your vendor. You need to have a good understanding of the problems that might arise and learn to speak technical language, or you will not be taken seriously. It can be difficult to meet end-user expectations. End-users may be unsatisfied with well indexed subscription products, which load more slowly than search engines. Diplomacy and tact are essential when mediating between frustrated end-users and remote technical staff, neither of whom has any notion of how the situation presents to each other.

These relationships are also important when acquiring online. Although this is less of a problem than it used to be, as products are now more likely to be available on multiple platforms, you will need to know what kinds of hardware, operating systems and web browsers are used across the

organization and to check that the product is compatible with all of them. You should also ask if the product you are buying is compatible with additional software such as screenreading tools for users with visual impairments. These issues make purchasing online products more than simply a matter of signing a cheque.

## Passwords

Libraries that make a range of products available to end-users may find that end-users find remembering different passwords to use each one confusing and off-putting. One way of avoiding this problem is to arrange with your supplier to access their products via Internet Protocol (IP) recognition. All of the computers in your organization will have an IP address within a range of numbers and the products to which you subscribe can be set up to recognize them. Sometimes you will be given a special URL configured for IP recognition and will need to link to this page from your intranet. Some providers are unable for technical reasons or unwilling to offer IP access. It is also not possible to offer it to staff working out of the office, unless they are using a registered work laptop or PC. This is a problem as users' resistance to passwords is increasing as they have become accustomed to using tools which avoid them, for example, company-wide software, which picks up user logins to the operating system and applies them to all internal databases.

IP recognition can also be a problem as it enables staff to use products without coming through the library or having been properly trained on them. The library has more control with password access. It is important to try to ensure that users can only access products through your intranet so that it is associated with the library which, after all, has selected it, configured it and paid for it. Journalists tend not to care where their information comes from and, as Heslop and MacDonald (2007) point out, are apt to follow the link once, copy the URL and not return to the intranet again. Users are more likely to use other features of the intranet if they have to come through the site. They quote Steve Torrington at the Associated Press, who designed his intranet, E-Lib, so that users have to log in each time they want to access databases. Torrington felt that annoying some users was less important than informing all of them that they would not have the resource were it not for the library. However, if you do manage your subscriptions

with passwords, make sure that they are changed frequently so that staff who leave the company are no longer able to use the databases.

## Statistics

Records of how many people are using your online products and how often are essential when deciding whether or not to renew, how much you should pay or how many users licences you need. Most vendors will provide user statistics. Helen Cooke of Sage Publications (2007) is typical of a publisher who recognizes the importance of usage statistics when negotiating subscriptions, given that in many cases the library does not actually see users any more. It is worth remembering that there are a number of different approaches to gathering usage statistics, so data may not be comparable across different products. This is important as your statistics are likely to be taken very seriously by managers and finance departments. Managers at the BBC once attempted to justify the disposal of their lending book collection by comparing the number of hits received by the KnowUK site with the number of book issues, data which was in no way comparable.

## Implications of the virtual library

Young journalists, editors and programme-makers arriving at media organizations expect to carry out most of their research online. Many of them will not be aware of what a media library can offer them and will assume their own searching approach is the best - indeed the only - means of research. They enjoy searching for their own information and are reluctant to give up this control to someone with better searching skills. Yet their own searching skills are often poor and consist entirely of basic freetext searching using Google and Wikipedia. Few use more than one search engine or have ever seen the advanced searching screen. If they have, they are often unsure of which field to use or worry that they would miss something if they focused their searches. They have little idea of how to evaluate sources for accuracy, reliability, currency or bias. As has been shown, they rarely know how to focus their database searches and prefer copious results from the most readily available source rather than fewer, more accurate results.

Lindsey Sellors (2007), who trains end-users at the BBC, believes that things are slowly changing and journalists are less likely to believe everything they read on the internet. Experienced journalists may even have learned to

trust authoritative sources because of problems resulting from the publication of inaccurate data. However, she often encounters young journalists who feel that Wikipedia is the only site they need to use. British newspapers and broadcasters, including the BBC, were recently embarrassed after publishing obituaries of composer Ronnie Hazlehurst to whom they wrongly attributed composition of a pop song (Orlowski, 2007). Sellors points out that their own internal music database would have revealed this information with a basic search, but the users took their information from Wikipedia (and possibly only because this was the highest ranking result for the subject's name when searched in Google). This is despite the fact that in a recent exchange on the NewsLib e-mail discussion list, Wikipedia's founder Jimmy Wales (2007) wrote 'I would never recommend Wikipedia as a sole source.'

Journalists instinctively search for the 'one-stop shop'. One end-user once complained to BBC research.gateway that having to search more than one product to find out the information she needed was 'time-consuming and complicated'. However, Sellors adds that 'plugging authoritative sources is like pushing on an open door' and notes a positive development whereby a recent Broadcast Journalist position was advertised at a local radio station, which whittled 1000 applications down to 70 by rejecting all those that cited Wikipedia as their main or sole source of parliamentary information. She also feels that journalists' search skills are improving and notes far fewer complaints from end-users about too much irrelevant material being returned (which inevitably turns out to be because they tried to search using a single keyword).

At IPC they have chosen to keep certain products within the information team. This ensures that usage figures are kept under control and that the InfoCentre remains an important resource within the company. However, in many organizations, funding for electronic resources may be contingent on making them available across the organization and even on closing the library altogether. Even at IPC, it is thought that although staff numbers dwindled when there was cost-cutting across the board, the rationale for downsizing the library was the availability of online products. This underlines a central theme of online subscriptions, that they can make the library invisible and, without promotion of information staff's searching expertise, underused and expendable.

Even without their successful CUI, customers were likely to turn away from the InfoCentre because younger searchers are less familiar with the