Institution: University of Sheffield
Unit of Assessment: 36 - Communication, Cultural and Media Studies, Library and Information Management

a. Overview

The Unit consists of the Information School (IS) and the Department of Journalism Studies (JS). Both departments are members of the Faculty of Social Sciences (FSS) in the University of Sheffield (TUOS) and they share a common focus on the production, processing and exploitation of content, broadly defined.

The Unit's research covers three areas: Computational Informatics (interests in Chemoinformatics, Information Retrieval, and Information Systems), Journalism (interests in Freedom of Speech, History and Journalism, Journalism Education, Political Communication, and the Theory, Practice and Environment of News Production), and Library and Information Management (interests in Educational Informatics, Health Informatics, Knowledge and Information Management, and Libraries and Information Society). The Unit hosts five dedicated research centres: the centres for Freedom of the Media (CFOM), Health Information Management Research (CHIMR), Information Literacy Research (CILR), Public Library and Information in Society (CPLIS), and for the Study of Journalism and History (CSJH).

b. Research strategy

Review of RAE2008 plans The strategic objectives detailed in the Unit's two RAE2008 submissions have been achieved as follows:

- CILR explored the contextual nature of information literacy (IL) and information behaviour (IB), and built research capacity with the practitioner community, e.g., an AHRC award (£216K) on IB with an education authority, setting-up an IL blog that has already had ca. 670K page-views and an international journal club on IL in Second Life.

- Overseas collaborations were developed with both academic and non-academic organisations in three multi-partner EU projects (OrganiK, PATHS coordinated by Sheffield, and PROMISE) involving 13 different countries. Also involvement in the international networking and workshop programmes ELIAS, Information Foraging, MUMIA and SCORE.

- Four IS staff submitted as ECRs in 2008 are all now well established with **Clough** promoted to Senior Lecturer in 2011, **Corrall** appointed to a Chair at Pittsburgh, **Cox** the PI for a JISC-funded project, and **Birdi** (née Train) now the director of CPLIS.

- TUOS PhD theses are available online via the British Library EThOS system.

- A strong programme of research has been established into the theory and practice of journalism and news production, and their place in contemporary society.

- There has been rapid development of the work of CFOM, which was established by **Harrison** in 2008 to illuminate undermining or abuse of news media freedom and to examine news media standards of independence and truthfulness.

The only unrealised objective was the creation of the Institute for Cognitive Informatics, which did not proceed since **Sanderson**, the director, was appointed to a chair at RMIT in Australia.

Successful outcomes to the tactical plans in RAE2008 are exemplified by the following, where (Person-xxxx) denotes a REF2 output in year xxxx by Person:

- Computational Informatics. Work in chemoinformatics has involved extensive studies (including funding from seven pharmaceutical or software companies) of lead optimisation (Gillet-2010), similarity searching (Holliday-2011), bioisostere identification (Willett-2009) and pharmacophore mapping, where research by **Gillet** (Gillet-2012) has contributed to a product undergoing commercial beta testing.

- Library and Information Management. Work in knowledge and information management has focused on four major areas: strategic approaches including absorptive capacity, market orientation and intellectual capital valuation (Vasconcelos-2010); information and knowledge management practices, including boundary spanning practices, knowledge integration and communities (Vasconcelos-2008); socio-technical and practice orientated conceptualisations of virtual communities, Web2.0 and social media, in corporate, educational and leisure contexts (Cox-2013); and methodological approaches underpinning these areas (Sen-2009;

Vasconcelos-2012).

- Journalism. CSJH was established by **Conboy** (with Bingham in TUOS History Department) in 2009 to provide a focus for work on journalism history, bringing together political and social historians to explore language, genre, discourse and identity, and to exploit the increasing number of digitized text and image archives (Conboy-2010). CFOM is now a key player in media freedom, e.g., its inaugural Chatham House meeting (London, February 2009) attracted high profile international speakers and was funded by the UK Foreign and Commonwealth Office and The Open Society Institute, Soros Foundation, Budapest, with associated work on freedom of speech (Steel-2011) and political communication (Negrine-2011).

Plans and aspirations for 2014-19. The Unit's strategic objectives for the planning period are:

- An increase in collaborative research, including involvement in three TUOS inter-disciplinary research themes (the Digital World, Healthcare Across the Disciplines, and Resilience) and establishing links with members of the international iSchools movement (where IS's research reputation made it the first UK department to be invited to join the movement).

- The exploitation of the iLab (see *Income, infrastructure and facilities*), a resource for the collection of rich data from people and groups to support a wide range of Unit research.

- The development of new interests in research data management and in social media, where **Vis**, one of five new FSS Research Fellows, brings significant strength in big data, data journalism, social media and crisis communication, and where a Chair appointment will be made in JS.

- Work on the protection of journalists and journalism and media freedom and on deepening our understanding of the interplay between journalism and history.

- Internationalising the research and teaching agenda in journalism.

A wide range of more specific activities is planned, with typical examples including:

- Computational Informatics. Application of our chemoinformatics expertise to translational research on drug discovery funded by BBSRC, EPSRC and MRC in Biomedical Science and Chemistry. Work in information retrieval will exploit the iLab facility to study the information access lifecycle from design through to implementation and testing, and will improve access to content in all of its forms and using all manner of devices by extending beyond traditional retrieval to include more exploratory and serendipitous forms of search.

- Library and Information Management. Work in health informatics by CHIMR will include: e-health in developing countries; NHS information governance and security policies; and the use of electronic patient records in a range of healthcare settings. Work in libraries and information society by CPLIS will include: the role and strategy of libraries and the skills and identity of library and information professionals; the nature of information literacy; open access to information and scholarly communication; and the exploitation of public sector and research data.

- Journalism. Research into political communication with studies of: electoral campaigning in the European Parliament elections (funded by the British Academy); journalism history and changing practices (with University of Groningen); and the production of political news and mediatisation (in a collaboration with York). Work on the subject of violence against journalists (collaboration with UNESCO) and studies of media freedom, ethics and regulation, and media law to underpin understanding of challenges to media practice.

Support for interdisciplinary and collaborative research. The Unit's research involves many academic and non-academic collaborations. There are existing research links with 20 different TUOS departments spread across all of the five faculties, e.g., with Biblical Studies (Harrison-2013), Computer Science (Clough-2013) and ScHARR (Bath-2010) (see non-Sheffield links in *Collaborations with other academic groups*). The Unit also contributes to the following TUOS research centres: the Centre for Assistive Technologies and Digital Health, the Interdisciplinary Centre of the Social Sciences (ICOSS), the Krebs Institute for Biomolecular Research, the Prion Chemical Biology Network, and the Race Research Network. Existing research links with non-academic organisations include British Library, *Guardian*, Eli Lilly, European Medicines Agency, Gale Cengage, GlaxoSmithKline (Willett-2009), The National Archives (Clough-2013), NHS Direct

(Bath-2013), OCLC Inc., Oxfam Scotland, Open Society Institute, Press Association (who gave £30K to refurbish a JS newsroom), Soros Foundation, UNESCO, Westdeutsche Allgemeine Zeitung and industrial partners in the EU projects in *Review of RAE2008 plans*.

c. People, including:

i. Staffing strategy and staff development

Staff development strategy The Unit has 25 full-time and six part-time research-active academic staff, of whom 17 are female (including four of the eight Professors) and six are non-UK citizens (from Canada, China, Portugal and Taiwan). The academic staff are supported by a total of 15 professional services staff, two of whom have specific responsibilities for research and research-student administration and two for IT support.

There have been substantial staff changes since RAE2008 as academic staff have retired or moved to other positions (including four overseas, demonstrating the Unit's international reputation) but TUOS has demonstrated its continuing strong commitment with new lecturer, senior lecturer and professorial appointments. These have enabled the Unit to maintain both the quantity and the quality of its academic staff, only two of whom are on fixed-term contracts. This facilitates long-term strategic planning, as does the demographic profile (9% of staff < 36 years old, 23% 36-45, 45% 46-55 and 23% > 55) and the TUOS Sheffield Leader programme, which equips staff to provide future leadership and governance and which has been undertaken by three academic and three professional services staff in the Unit.

The following mechanisms are in place to support and develop academic staff research:

- Unit funds to support individual and group research activities, and the Learned Society Fund to support conference presentations, these sources totalling £60K for the Unit in 2012-13.
- FSS seed-corn funds under the New Directions Scheme to facilitate a mid-career change in research focus (awards to **Foster** and **Lin** in 2013 totalling £20K).
- Unit and FSS internal peer review to provide expert feedback on draft grant applications.
- Monthly research seminars by staff and external speakers, including a Distinguished Research Seminar series to bring high-profile international speakers from Australia, Canada, Portugal and USA so far.
- A research "Dragon's Den", where staff pitch possible projects to senior academics to obtain rapid informal feedback on their initial ideas, and regular "Lunch, Munch and Think" brown-bag meetings to discuss research possibilities in specific areas.
- Use of a work-load model that allocates each academic member of staff 40% of their time to research; availability of research leave (see below); and a new, FSS-wide scheme providing three-day "Red Lining" periods devoted to writing research articles and grant applications, in which three staff have already participated. Funding is also available to buy out staff time to enable them to focus on research and writing, with two staff supported in this way.

Implementation of the Concordat. TUOS received the *HR Excellence in Research* award from the European Commission in September 2012, denoting its provision of a high quality research environment for new staff adhering to the principles of the *Concordat for the Career Development of Researchers*.

Individuals at the start of their research careers. Following induction by both the Unit and TUOS, new academic staff are assigned a senior mentor to provide detailed advice and support during the probation period. This normally takes three years, during which the probationer must successfully complete the Certificate in Learning and Teaching, an initial professional development programme for academic staff. New staff also act as PhD co-supervisors alongside experienced colleagues. These measures ensure that new staff rapidly establish themselves as independent researchers, as evidenced by the success of our RAE2008 ECRs (see *Review of RAE2008 plans*) and by the inclusion of four ECRs in the current submission. New staff also have access to *Think Ahead*, a comprehensive framework of support (including tailored inductions, professional training programmes, a suite of career support and a researcher mentoring programme) containing content relevant both to those aspiring to be independent researchers and to those aspiring to other careers. Many events facilitate networking across disciplines, e.g., *Crucible*, a series of residential workshops that develop attitudes to, and involvement in, multi-disciplinary collaborative research.

Research leave. Staff can apply once in every four years for leave to provide a complete break

from teaching and administration duties, with 25 semesters of such leave awarded during 2008-13.

Career progression. Research excellence is a basic requirement for appointment, and continuing excellence in research has been a key factor in the following promotions: **Holliday** - Senior Research Manager, **Clough, Hanna** and **Vasconcelos** - Senior Lecturer, **Bath** - Reader and then Professor, and **Conboy** and **Gillet** (also **Sanderson** who has since taken up a position in Australia) - Professor. TUOS procedures state that: promotion is based solely on merit; all staff are considered for promotion, regardless of their source/duration of funding; and TUOS-wide criteria are applied in a consistent process that emphasises equality and diversity considerations. Interview-panel chairs must have had equality and diversity training, and the FSS Equality and Diversity working group oversees the interviewing, recruitment and induction of academic and research staff. Promotion (and bonus payments under the Exceptional Contribution Award scheme) are driven by the Staff Review and Development Scheme (SRDS), which provides all staff with an annual opportunity to reflect on what they have achieved, to receive an appraisal of their contribution over the past year, and to set performance objectives for the coming year.

Contribution of research staff. Research staff participate fully in SRDS and are represented on the Research Staff/Student Committee, which provides a forum to raise academic, supervisory and welfare issues, with representatives (both research staff and PGRs) from all of the research sub-groups. Research staff also contribute by leading a monthly Researchers' Discussion Meeting and a monthly social session.

Equal opportunities in research-staff recruitment and support. Recruitment and support is based solely on research potential and merit, with the 23 new research staff (74% male) coming from 8 different countries (48% UK, with the remainder from mainland Europe and the Far East).

Stimulation of exchanges. Much of the Unit's research has a strong applied focus, engendering extensive staff exchanges between the Unit and external organisations. For example, research staff have spent time at AstraZeneca, Cambridge Crystallographic Data Centre (Gillet-2012), Eli Lilly, GlaxoSmithKline, Lhasa Ltd., Oxfam, Sanofi-Aventis (Willett-2009), and the five SME partners in the EU ORGANIK project.

ii. Research students

Development of a research culture. There are now ca. 100 PGRs in the Unit. Incoming PGRs are assigned a 'buddy', an existing PGR who provides advice and guidance prior to arriving in Sheffield. On arrival, each PGR has a formal induction procedure where they meet their principal and joint supervisors, are introduced to colleagues and staff, registered for health and safety training, etc. These Unit procedures complement those provided by FSS and TUOS, the latter including an introduction by the PVC for Research and Innovation. The new arrivals attend a half-day event involving presentations from key academic, administrative and technical staff and representatives from the Research Staff/Student Committee, and an informal "meet-and-greet" event for all staff and PGR students.

Each PGR is a member of their principal supervisor's research group and participates in all of that group's activities, with all full-time PGRs provided with desk space and either a desk-top PC or a laptop in a dedicated lab housing the other members of their sub-group. Interactions with FSS and TUOS PGRs occur via: the Doctoral Development Programme (see below); the PGR Faculty Forum (which meets twice yearly to address issues affecting PGR students across the faculty and which has run PGR-led events on e.g., interdisciplinary research, academic careers and being enterprising); and the PG Café Forum (a student-led initiative where PGT and PGR students can share their work, socialise and network, and where two of the Unit's students were on the initial planning committee). Interactions with PGRs from other UK IS departments resulted from the student-run iFutures Postgraduate Research Conference in July 2013. PGR students engage with and benefit from the ESRC White Rose Doctoral Training Centre in the Social Sciences (DTC), which is run jointly with the Universities of Leeds and York and which offers a suite of modules available to all PGRs across the 13 FSS departments. JS has received a PhD award from the DTC, where it plays an active role in the 'Communications and Media' pathway.

Recruitment of research students. The Unit continues to attract a strong flow of high-quality research applicants, with ca. 15-20 new PGRs starting each year from amongst ca. 80 applicants. Whilst a few self-fund, most PGRs have scholarships from a wide range of sources. In 2008-13, these included the AHRC, BBSRC, British Library, EPSRC, ESRC, Ministry of Education, Brazil,

and many overseas universities who send their staff on secondment to Sheffield to obtain a doctorate. In addition, the Unit has been able to award 11 TUOS or FSS Scholarships (total value of £442K) to candidates showing exceptional research potential.

Equal opportunities in research-student recruitment and support. Recruitment and support is based solely on academic merit and student need as evidenced by the Unit statistics for the review period: the 107 new PhD students (56% male) came from 25 different countries (28% UK).

Stimulation of exchanges. Much of the Unit's research has a strong applied focus, and PGRs often spend time working with external organizations, e.g., RCUK CASE or Collaborative Doctoral Award collaborations with AstraZeneca, British Library, Derbyshire County Council Culture and Community Services, Eli Lilly, GlaxoSmithKline and OCLC Inc. PGRs also contribute to EU projects that have exchange components as central objectives, e.g., two students in OrganiK spent time with CAS Software AG and Leserauskunft (Germany), Language Technology Centre (UK), SYRIA Informatica (Italy) and KLC (Greece). Interactions with non-academic organizations also result from students funded by their employers to conduct doctoral studies in Sheffield before returning to employment, e.g., a staff-member from the European Medicines Agency developing computer methods to support the EU-wide registration of orphan drugs.

Monitoring and support mechanisms. The TUOS *Research Student Proposition* describes what PGRs can expect from Sheffield and what Sheffield expects in return. In its December 2012 review the QAA praised Sheffield's provision for PGRs and highlighted aspects of it as good practice. Quality assurance of PGR provision now consists of an annual review (in which our PGRs contribute their perspectives on the quality of provision), a thematic review and a biennial survey.

PGR progress is closely monitored. Formal supervisions take place at least monthly, with minuted action points for both student and supervisors and with participation recorded in the TUOS-wide Student Attendance Monitoring system (the QAA noted the effectiveness of the monitoring mechanisms). The supervision minutes form the basis for twice-yearly reports that are reviewed by the Unit, and for annual reports that are reviewed by FSS. After twelve months, a PGR has a Confirmation Review that involves an oral examination and substantial written work to ensure their suitability for doctoral-level study. The following support mechanisms are provided:

- In addition to their principal supervisor, students have a co-supervisor and a personal tutor, who is separate from the supervisory team and who can provide pastoral support. The TUOS *Sheffield Supervisor Statement* outlines expectations regarding the professional qualities and responsibilities of supervisors at Sheffield.
- Students are represented on the Research Staff/Student Committee (see above) and the Unit is represented on the FSS PGR Faculty Forum (see above, with one of its PGRs having acted as Chair).
- Students can request reasonable expenses to attend refereed conferences at which they will be presenting their own original work as either an oral or poster presentation and to attend one meeting of an academic society in each academic year. The Unit provided £32K for these purposes in 2008-13.

These support mechanisms have resulted in the award of 67 FTE doctorates in 2008-13 (as against 45.7 FTEs for 2001-07), with these yielding 137 refereed publications in 2008-13. The research-led nature of TUOS teaching has yielded an additional 49 publications that are based on UG and PGT projects. In all, students have contributed to 17 of the REF2 outputs.

Skills development. Students have an annual Training Needs Analysis to inform their selection of training units in the TUOS-wide Doctoral Development Programme (DDP), which equips PGRs with skills to support both their current research project and their subsequent careers. The DDP includes subject-specific material, a faculty-specific module on research ethics and integrity (REI) (TUOS is the only Russell Group university to deliver compulsory REI training for PGRs) and more general modules on e.g., information management and entrepreneurship skills. Students are encouraged to develop additional skills by contributing to the delivery of UG or PGT modules, with advice and oversight from the module coordinators complementing compulsory prior attendance at TUOS Teaching Assistant Workshops and the Unit's own Teaching Assistant Away Days. Unit students provided ca. 1400 hours of marking, seminars, demonstrating etc. in 2012-13.

d. Income, infrastructure and facilities

Income generation. The Unit has been awarded a total of £2.48M of research income from 24 very diverse funding agencies, e.g., AHRC, EPSRC, European Commission, Google, MacMillan Cancer Support, MLAC, NHS Direct, Rolls Royce and TSB.

Scholarly infrastructure supporting research. The principal scholarly information source supporting research is TUOS Library, containing ca. 1.12M printed volumes and ca. 65K e-journals, the latter including those from all the major academic publishers (ACM, CUP, Elsevier, Emerald, OUP, Sage, Springer and Wiley) and 53 journals that are purchased specifically for the Unit. Specialised research collections include:

- The ImageCLEF project was initiated by the information retrieval group in 2003 to develop large datasets for evaluating image-retrieval systems. The group has driven a continuing, collective endeavour, with the resources used throughout the world-wide research community, which includes both academic and industrial groups such as those at Siemens, Xerox and Yahoo!
- As a result of the generosity of major chemical software companies (Accelrys, CCDC, Daylight, MOE, Tripos), Unit research in chemoinformatics has access to a wide range of industry-standard software covering all aspects of computer-aided drug discovery.

Organisational infrastructure supporting research. The Unit has seen significant investment:

- Funding from the University (£3M) to enable JS to move into a newly refurbished building with state-of-the-art facilities in 2014.
- Funding from the FSS and the Unit (£123K) enabled the establishment in 2012 of an iLab in IS to support human and group behavioural research, and to enable digital focus-group data collection. It is equipped with video, audio, data capture, and computer log systems, and includes a simulated office, usability lab, a group work room and a control room connected via two one-way mirrored windows that allow direct observation into both rooms.
- Funding from the Unit and from the University Alumni Fund (£52K) for much enhanced informal and social learning spaces for PGRs in IS.
- Funding from the Unit and FSS (£2K) for setting up CFOM. It, like CSJH, continues to be offered support through ICOSS (see below) by continuing engagement with other academics and research centres within FSS.

Operational infrastructure supporting research.

- ICOSS (the Interdisciplinary Centre of the Social Sciences) is a large, dedicated facility for social science research, providing support and guidance to research groups across FSS and fostering collaboration by "matchmaking" sessions that bring together researchers from across the Faculty (e.g., a workshop on Changing Human Behaviour organized by IS and Economics brought attendees from seven different departments) and the dedicated Red-Lining days (see *Staff development strategy*). ICOSS also hosts the DTC (see *Development of a research culture*).
- TUOS research ethics policy is a key part of its research infrastructure. It is overseen by the Research Ethics Committee, where **Bath** is both FSS representative and Deputy Chair. Another key policy area is research data management (RDM). **Willett** chaired the group developing TUOS's RDM policy, and **Cox** was the PI for a JISC-funded project that developed RDM materials for the Leeds, Sheffield and York university libraries.
- Four of the Unit's professional services staff provide dedicated research and IT support.
- In addition to IS's extensive internal IT resources, some of its research draws on TUOS parallel computing resource, which is a 15 TFLOPS, 1544-processor device.

Balance between scholarly, organisational and operational infrastructures. Research is tightly organised within TUOS to ensure an appropriate balance between the three types of infrastructure, with comparable structures at the University, faculty and departmental levels and with the research strategy at each level developed as part of the annual planning cycle. Thus, at the University level, the Research and Innovation (R&I) Committee is chaired by the PVC for R&I, has overall responsibility for all aspects of the University's strategies for research and innovation, for research governance, and for PGR and ECR development, and reports to the University Executive Board

chaired by the VC. The strategies developed at the University level are implemented by analogous research committees, first at the faculty and then at the departmental levels, reporting in each case to the appropriate executive board. Each faculty director of R&I is a member of the University R&I committee, and each departmental director of R&I is a member of the corresponding faculty committee.

e. Collaboration and contribution to the discipline or research base

Collaborations with other academic groups. Examples of collaborations with national HEIs include work with, *inter alia*: City and Queen Mary on media freedom and threats to journalism (Harrison-2012); Exeter, Nottingham and Reading to develop an archive for replaying interactive artistic performances (Foster-2010); Leeds on e-Learning (Nunes-2008); Liverpool and Manchester on information systems for biomass data (**Gillet**); Manchester, Newcastle and Northumbria on modelling environments to facilitate wellbeing in the aged (**Bath**); York St John on information-based coping strategies for ill youngsters (Sen-2013).

Examples of collaborations with international HEIs include work with, *inter alia*: Institut de Robòtica i Informàtica Industrial and Ecole Centrale de Lyon on tagging visual data with semantic descriptions (**Clough**); Groningen in an AHRC/NWO project exploring the future of journalism (**Conboy, Steel**); Wuhan on Chinese medical professionals (Nunes-2012); 25 partners from 15 countries in the CORDIS project on the use of inquiry-based science teaching (**Levy**); and the EU projects in *Review of RAE2008 plans*.

Membership of national and international research committees. 12 memberships, e.g., **Birdi**, **Ford**, **Vasconcelos**, **Webber** and **Willett** members AHRC Peer Review College; **Harrison** member ESRC Peer Review College; **Pinfield** member Finch Review subgroup for open-access publishing, HEFCE REF Advisory Group on Bibliometrics.

Involvement in research advisory/review boards. **Levy,** Deputy Convenor of the Education Panel for the Hong Kong RAE 2014; **Toms** and **Willett,** reviewers for VQR, the Italian equivalent of REF2014; **Willett,** panel member for REF2014.

External advisors for twelve chair promotion panels in the UK and nine other countries, e.g., **Bath** Nanyang; **Gillet** Trinity College Dublin; **Harrison** Cyprus University of Technology; **Negrine** Chinese University of Hong Kong; **Willett** Imperial College, Sydney.

Committee/board membership in subject associations and learned societies. 19 memberships, e.g., **Birdi** IFLA Literacy and Reading Section; **Gillet** Molecular Graphics and Modelling Society; **Hanna** National Council for the Training of Journalists, Journalism Qualification Board; **Holliday** Chemical Structure Association Trust; **Sen** BMA Patient Information Awards; **Toms** American Society for Information Science and Technology; **Webber** IFLA Information Literacy Section.

Journal editorial positions. Seven editorships or associate editorships: **Bath** *Health Informatics Journal, International Journal of Health Information Management Research*; **Birdi** *Library Review*, *Public Library Journal*; **Lugo Ocando** *Journal of Latin American Communication Research*; **Sanderson** *ACM Transactions on the Web*; **Willett** *WIREs Computational Molecular Science*.

Also 35 editorial board memberships, e.g., **Birdi** *New Review of Children's Literature and Librarianship*; **Conboy** *Journalism: Theory, Practice and Criticism*, *Journalism Studies*, *Media History*; **Cox** *Program*; **Ford** *Journal of Documentation;* **Gillet** *Journal of Chemical Information and Modeling*, *Journal of Cheminformatics*; **Hanna** *Journalism Education*; **Harrison** *Religion, Politics and Public Communication*; **Holliday** *Nature Scientific Reports*; **Levy** *Teaching in Higher Education*; **Lugo Ocando** *Public Relations International Review*; **Martins** and **Vasconcelos** *International Journal of Knowledge-Based Organizations*; **Negrine** *International Journal of Press/Politics*; **Steel** *Ethical Space*; **Toms** *Online Information Review*; **Willett** *Journal of Computer-Aided Molecular Design.*

Examination of doctorates. External examining for 27 research degrees in UK universities and 23 in twelve other countries, e.g., **Bath** Massey University Auckland, Nottingham; **Birdi** Robert Gordon; **Clough** Cape Town, Essex, RMIT; **Conboy** Macquarie, Manchester; **Cox** York; **Gillet** Cambridge, Imperial College; **Harcup** Dublin Institute of Technology, Newcastle (Australia); **Harrison** Bergen, Cardiff; **Lin** Auckland Technology University; **Lugo Ocando** Barcelona; **Negrine** Birmingham, Melbourne; **Toms** Bar-Ilan, McGill; **Vasconcelos** Leeds; **Webber** Warwick; **Willett** Berne, Caen.

Conference organisation. IS played host to the 5th (2010) and 6th (2013) Sheffield Joint Chemoinformatics Conferences (SJCC); in 2014 will host the Cross-Language Evaluation Forum (CLEF) conference and joint host (with Aberystwyth and Leeds) the 10th Information Seeking in Context conference (the first time it has been held in the UK this century). CHIMR organises the annual International Symposium for Health Information Management Research (ISHIMR) in collaboration with other universities and research institutes.

20 conference or programme/track chairs or co-chairs: **Bath** ISHIMR 2008, 2009, 2011, 2013; **Clough** European Conference on Information Retrieval 2011, CLEF 2011; **Gillet** SJCC 2010, 2013; **Harrison** Media Responses to Matters of Life and Death 2012; **Lin** IADIS Multi Conference on Computer Science and Information Systems 2012; **Lugo Ocando** Representations and Social Change in Africa 2013; **Martins** European Conference on e-Learning 2013; **Nunes** IADIS Information Systems 2010; **Pinfield** UK Research Data Service Conference 2009; **Sanderson** SIGIR 2009; **Toms** American Society for Information Science and Technology 2010; Evaluation Methodologies in Information Retrieval 2013; **Vis** International Conference for e-Democracy and Open Government 2013; Innovative Methods in the Study of Religion Conference 2010; **Webber** Information Literacy: Context, Community, Culture 2010. Also 57 memberships of conference organising or programme committees.

Refereeing responsibilities. Refereeing books for nine publishers: Blackwell's, Central European University Press, Facet, Palgrave Macmillan, Pearson Education, Polity, Routledge, Sage, and University of Edinburgh Press.

Refereeing articles for 129 journals, in both the mainstream IS and JS literatures (e.g., *European Journal of Communication*, *Journal of Documentation*, *Journal of the American Society for Information Science and Technology* and *Journalism Studies*) and high-impact journals in specialist areas (e.g., *ACM Transactions on Information Systems*, *Communication Theory*, *Journal of Cheminformatics*, *Journal of Computer-Mediated Communication*, *European Journal of Ageing*, *Media Culture and Society*, *MIS Quarterly*, *Studies in Higher Education*).

Grant proposals for 23 funding agencies: AHRC; BBSRC; British Academy; Canada Foundation for Innovation; Chemical Structure Association Trust; Deutsche Forschungsgemeinschaft; EPSRC; ESRC; FP7; JISC; Leverhulme; MRC; Natural Sciences & Engineering Research Council for Canada; Netherlands Organisation for Scientific Research; NIHR Health Services Delivery and Research; Qatar National Research Fund; Royal Society; Scottish Institute for Advanced Studies; Science Foundation Ireland; Social Sciences and Humanities Research Council of Canada; South African National Research Foundation; University Grants Committee, Hong Kong; Wellcome Trust

HEI consultancies. **Levy** University of Lincoln Student as Producer project, University of Central Lancashire National initiative to establish a British Conference on Undergraduate Research

Scholarly awards and fellowships. Five fellowships: **Clough** and **Cox** Higher Education Academy; **Nunes** British Computer Society; **Cox** and **Webber** CILIP.

Five awards: **Gillet**, **Holliday** and **Willett** UK e-Information Group Jason Farradane Award (2012); **Sen** European Association of Health Information and Librarians 25th Anniversary Award (2012); **Toms** Erasmus Mundus Scholar (2008); **Vis** Data Journalism Award for Best Data Visualisation (2012); **Willett** American Chemical Society Patterson-Crane Award (2010).

Nine Emerald Literati Awards for Outstanding Paper (*Aslib Proceedings*, **Willett** 2009; *Library Management*, **Corrall** 2009 and 2011; *Library Review*, **Birdi** 2009 and **Willett** 2012; *Program*, **Cox** 2009) or Highly Commended Paper (*Program*, **Petrelli** 2009, **Webber** 2009; *Electronic Library*, **Ford** 2013).

Invited conference keynotes and lectures. 20 conference keynote lectures, four in the UK and the others in ten different countries, e.g., **Bath** 4th International Conference on Well-being in the Information Society; **Clough** 2nd Spanish Conference on Information Retrieval; **Conboy** 5th International Conference on Language and Communication, Celebrity News: An Oxymoron; **Cox** Special Libraries Association; **Foster** 6th RRU Academic and Research National Conference; **Pinfield** RIOJA project conference; **Vasconcelos** Special Libraries Association; **Toms** CLEF, ECIR 2012; **Vis** Open Knowledge Festival. Also 148 invited lectures with 63 in the UK and the others in 24 different countries.