



Richard Ovenden

Associate Director, Bodleian Library

Custodial Issues relating to Digital Forensics

Context

- View as an Administrator of Archives and IT Services: my responsibilities cover Special Collections as well as IT.
- Training and professional skills development of major importance
- The Library must develop strategies to ensure it can maintain its role as a major repository for primary source materials
- PI on Paradigm and futureArch projects
- Chairman of the Digital Preservation Coalition ... these issues have a broad applicability

AUTHENTICITY and AUTHENTICATION

- History of scholarly interest in authentication
- Needs of scholars ('verify your references')
- Needs of book trade (need to focus more)
- Data integrity (pre and post accession routines)
- Interference and fixity - insure integrity
- Importance of metadata
- Provenance and custodial history

DATA RECOVERY

- Paradox of volatility versus ...
- ... staying-power of data (WTC, Challenger, discarded PCs)
- Understand techniques for secure deletion
- Data carving, using forensic techniques to examine data outside of the OS
- Role of scholars in data recovery – at what point, and by whom are these actions best performed?

COSTING

- High-level overview aimed at archivists
- LIFE and LIFE2 costing models as basis
- Framework for developing costs for digital preservation as a whole
- Need more detail for understanding specifics of digital forensics, including different options (specialist software vs open source; partnerships and economies of scale)
- Interesting discussions yesterday will feed into revision of this section

ETHICS

- Scholarly ethics –still to be worked on
 - Recent case of Orlando Figes
- Archival ethics: closely connected with notions of Trust
 - Privileged access by archivists needs to be managed (connected to issue of digital abstinence)
 - Oversight of use by scholars (unwarranted access)
 - Privacy and security
 - Conduct and confidentiality: access controls
 - Recruitment training and encouragement of staff

ETHICS

- Working with data creators
 - Use forensic technologies to isolate sensitive data
- Mostly been digital rescue/digital archaeology
- Need to move to a new mode where archivists advise and even 'train' data creators to curate their own materials
- Partly encouraging greater understanding of what is possible with new techniques
- Section of legal issues still to be written