Digital Technologies & Archaeological Ethics

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Session: Digital Technologies and archaeological theory, method and practice

Archaeology

Study of material remains (1) of the human past (2) using archaeological methods and theory (3) to explain long-term changes in human behaviour and culture, (4) to write histories (4) and/or as heritage practice (4)

1. With documentary and other evidence
2. And the natural environment
3. Borrowed from other disciplines/practices, often contested
4. Depends on your perspective

Archaeological Codes of Ethics

Common Themes

conservation & ‘stewardship’ of tangible/intangible heritage
rights of key stakeholders/traditional owners
minimum standards for fieldwork & analysis
acknowledge IP, share information, publish the public ‘right to know’
maintain client confidentiality
act legally
Challenges of Codes of Ethics
Contested & conflicting values
Unrealistic assumptions about standards
Professionalism vs. public involvement/rights
Digital media & technologies extend existing ethical issues and create new ones

- Conservation of places/materials & records (hard copy, digital)
- Sustainable digital archives and/or eResearch tools and/or communication technologies?
- Competition vs. collaboration between practitioners
- Real costs of adhering to ethical and professional standards
- Disagreement about standards & data standardisation
- What is ‘archaeological’ information? Who owns it?
- Who takes responsibility for managing, maintaining, moderating etc
- Differing professional and/or community standards on Web 2.0
- Authorship, representation & affective digital storytelling
- Edutainment, advertorials, branding, PR, marketing archaeology online
- Equality of access to digital technologies & content – costs?
- Platform design to support ethical & professional standards?
- Digital & information literacy of contributors and users?

Archaeological collections and information ‘at risk’
Many archaeological material collections not properly curated
Unpublished consultancy reports (paper, few copies, restricted access)
Other paper-based archives (notes, plans, excavation recording sheets etc)
Photographs on film (negatives, prints, slides)
Content on tape (video, data)?
‘Born digital content’ (text, databases, spreadsheets, GIS shape files, CAD drawings, images, video, multimedia products, websites)

NSW Archaeology Online Stages 1 & 2 (2009-2013)
Sustainable Digital Archive & Search and Presentation Tools
Making unpublished archaeological information discoverable & publicly accessible online and sustainably archived via University of Sydney Library

sustainable archive
University of Sydney Library
eScholarship Repository (DSpace)
Sustainable digital archive
(TIF, PDF, metadata in text formats)
not sustainable (?)

NSW Archaeology Online ‘Grey-Literature’ - Issues
- Quality of content very variable (“boiler plate” reports, plagiarism)
- “Name and shame” (poor quality work, not donating content)
- Plagiarism easily detected by users through OCR/text search
- Why should I donate my resources to assist my competitors?
- I’ve scanned my reports to PDF & have thrown the originals away. Can you put the PDFs onto NSW Archaeology Online for me?
- Why do we need to keep sites/artefacts if we can digitise and archive online?
- Who is responsible for current and future service provision? Future sustainability? Business models?
Work and organisational context?
Type, content and context of communications?
Experiences of working with media professionals?
Use of digital technologies to communicate about archaeology and heritage?
Use of digital technologies to share information?
Benefits and challenges of using digital technologies?

Interview survey 2011. 30 archaeologists and heritage practitioners
Main workplace in Australia (some archaeology outside Australia)

computers & digital technologies ‘Like’
save time, make work easier, quicker, efficient, effective
 can store, access & share more information
 instant communication, quick online publication
 communication with the public, colleagues etc.
 “Sexy as hell for presentations”
 ease of data analysis,
 supports new types of analysis
 visualize spatial information

computers & digital technologies ‘problems’
limited bandwidth, crashing, outdated hardware and software, need ICT support
 poorly designed software (hard to use and remember how to use)
 high costs of technology and software, high set-up costs
 software and technology that are not interoperable
 steep and continual learning curve, constant re-skilling
 pressure to produce too much information
 “dazzled by technology” that is not needed or useful or can be misleading
 technologies are distracting, create expectation of ‘instant replies’ etc
 working with people with different levels of digital literacy
 digital technologies are a barrier to some kinds of communication
 the web is not really ‘democratic’
tangible and hard-copy is sometimes better than digital
 sustainability, archiving, costs of metadata entry & data standardisation

‘social media’ - benefits
Sharing research and influencing an inter-disciplinary research community
Making professional contacts with a very wide range of people
“Engaging students better than with Blackboard Learn”
“Flying under the media/marketing people’s radar and circumventing university branding guidelines”
“To communicate with the public”
Make useful professional contacts, advertise work, share information

‘social media’ -- challenges
“Don’t have much traffic”. “Our company Facebook site was taken down as we didn’t have any Friends and it was a bit embarrassing”
“Very ephemeral. Rather put effort into more permanent medium!”
“I’m too old for that”. “Can’t be bothered”. “No I hate them”
“Concerned about things that go wrong with social media”. “I don’t want them to have my personal details”
“Can’t access Facebook from work computer”. “Don’t think the format is suitable for a professional image”
“I’m addicted to Facebook games. You can waste a lot of time.”
“You use the system in a truncated Twitter message”
“Don’t have a mobile phone that supports Twitter”
“I don’t want people to know what I am doing”. “Not allowed to use them by government department”
“Don’t have time to blog” “Few people contribute”
“Dealing with negative and derogatory comments”. “People feel they can hide behind anonymity and say things they wouldn’t dare say to your face”

Emerging themes of overall research
more positive than negative attitudes to technology & digital media
many complex challenges and problems
more negative than positive comments about social media
age seems to be significant in attitudes to e.g. Facebook
good ICT funding & support is important
variable levels of digital literacy apparent among respondents
scalability?
interoperability?
sustainability?
archiving?

Stage 1 (2009-2012) Pilot Study
Archaeology, heritage discourses & emerging digital technologies

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