

ICE-TheOREM

Acknowledgements

ICE-Theorem was a joint project between the University of Cambridge (UC) and the University of Southern Queensland (USQ) funded by the JISC (Jacobs 2008)

Project aims

The overall aim of ICE-TheOREM was to demonstrate improved tool support for chemistry theses authoring and publication using a range of available technologies (including ORE). In more detail:

- ICE-TheOREM takes TheOREM's validation of the ORE5 technology in the context of chemistry theses by implementing ORE in a production-standard software (ICE is in live use by faculty at USQ)
- Producing semantically rich HTML renditions of a thesis in addition to the formats mentioned in TheOREM by using ICE. This is key to allowing Web 2.0 style interaction with research outputs and is an essential step in treating a thesis as a datument (Murray-Rust & Rzepa 2004)
- Deploying a proof-of-concept Thesis Management System (ICETMS) which can be used by candidates, supervisors and potentially examiners to manage the creation of a thesis up to the point at which the degree is awarded
- Demonstrate repository integration between the ICETMS and three repositories, using ORE5 resource maps to describe the thesis, all its renditions (word processing files in OOXML and/or ODF, HTML and PDF as well as chemical data, tabular data, and RDF). USQ will develop solutions for ePrints and Fedora, University of Cambridge will develop an equivalent solution for DSpace
- Demonstrate ORE-over-SWORD6 for Fedora only
- Provide a demonstration platform for the use of chemical tools such as OSCAR7 in as part of a thesis production process so that chemical terms can be marked up inline, allowing the thesis to be integrated (mashed-up) with other services and the semantic web

The focus of this project was largely technical, developing tools rather than piloting their use over the long term.

References

Paper presented

<http://eprints.usq.edu.au/5248/1/ice-theorem-paper-OR09.htm>

JISC Project Proposal

<http://www.jisc.ac.uk/whatwedo/programmes/digitalrepositories2007/theoremice.aspx>