

15th October 2002
London
by Stewart Granger

[Programme](#)

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This was the fourth forum held by the Digital Preservation Coalition. The Forums aim to share experience from leading projects with DPC members organisations and to address topical issues in digital preservation. With the growth of distance learning and an increasing effort to digitise collections and package them for use in education in school, colleges, and universities, developing digital repositories and standards for managing learning objects are growing issues. The first session of the day focused on repositories and preservation of e-learning and leading initiatives in the field. The second session in the afternoon addressed cost models for digital preservation and speakers from industry and the public sector covered approaches and different aspects of digital preservation costs.



Nick Wainwright from Hewlett Packard

The first presentation was given by MacKenzie Smith (MIT) and Nick Wainwright (Hewlett Packard) on [Dspace](#) (PDF 1.08MB). Dspace is an emerging repository software developed at MIT which will be open source, federated and aims to provide a preservation archive. It aims to offer: large scale, stable, managed long-term storage; support for a range of digital formats; easy to use submission procedures, persistent network identifiers, access control, digital preservation services. Amongst the many other interesting things said was the distinction MIT makes between known supported data types (e.g. TIFF, SGML/XML, PDF); known unsupported data types (e.g. Microsoft Word, Powerpoint); and unknown/unsupported data types (e.g. a one-off computer program). Reference was made to discussion within the Digital Library

Federation in the USA on establishing Digital Format Registries which would capture format documentation such as specifications at a more granular level than MIME (e.g. TIFF 5.0, not just TIFF).

The next presentation was by Lorna Campbell (Centre for Educational Interoperability Standards (CETIS)) on [Learning Technology Standards and Digital Repository Standards](#) (PDF 87KB). CETIS is supported by JISC to provide support to UK Higher and Further education. CETIS has a number of special interest groups on accessibility, assessment, educational content, learning information packages, metadata and an FE focus Group. Learning technology standards and specifications are designed to facilitate the description, packaging, sequencing, and delivery of educational content, learning activities and learner information. They are needed to facilitate interoperability, to prevent content being 'locked into' proprietary systems, to ensure that educational content is durable and reusable, and to enable the sharing of content and learner information. Future considerations include: registries and directories; digital rights management; location and resolution services; request and deliver services; web services.



Prof. Bruce Royan of SCRAN

The last presentation before lunch was by Prof. Bruce Royan of SCRAN (Scottish Cultural Research Access Network) on the subject of [eLearning and the Business Case for Digital Libraries](#) (PDF 3.08MB). An important part of his presentation was on the topic of sustainability both from a technical point of view and a financial point of view. He discussed several business models that could be attempted to attain a sustainable service. He pointed out the dangers of relying solely upon the strategy of obtaining grants and emphasised the need to develop revenue funding. He then went on to describe the licensing model developed in SCRAN and the use it makes of authorisation, authentication, watermarking and fingerprinting. He went on to describe the RAID conception of what digital objects should be: Re-usable; Accessible; Interoperable; and Durable. His conclusions were: digital preservation implies significant ongoing costs and must be underpinned by strong business models; the most likely source of funding for these costs is educational licensing; licensed resource services must meet the evolving needs of their customers; digital library

services like SCRAN must adopt to the standards and frameworks of Learning Object Repositories.

The first presentation after lunch was by Alison MacDonald (Secure Sciences Ltd) whose presentation was entitled: [Bits & Bobs, DPC Presentation](#) (PDF 1.04MB). She began by discussing the nature of costs and the problem of identifying costs in digital preservation. She found the OAIS model useful in identifying these costs. She pointed out that digital preservation is a sub-activity - it implies purpose behind retention. Economies of scale imply one or more real or virtual archives. She went on to describe the complexity, the components, the variables and the cost drivers of digital preservation costs. She raised the question of where the costs of digital preservation fall and what the accounting problems are. The need for activity based costing was explored. One of her conclusions was that, "An understanding of costs in digital preservation is an important factor in managing and maintaining maximum funding for digital archives."



Meg Bellinger from OCLC

The next presentation was by Meg Bellinger (OCLC) and was entitled [Cost and Business Models for digital preservation](#) (PDF 85KB): developing digital lifecycle management services at OCLC. After describing different business models and sustainability models, she went on to describe the nature of OCLC and its business model. She saw current issues as being: certification of digital archives; the significant attributes of objects that must be preserved; models for cooperative repository networks and services; systems for the persistent identification of digital objects; intellectual property rights; technical strategies for continuing access; minimal level metadata required for long-term management and tools to automate extraction; economic sustainability. The development costs for the OCLC Digital Archive had been \$3.1 million dollars (approximately £2 million pounds). She identified the unknown costs of digital preservation as being: managing technological changes over time; the proliferation of data types; the lack of standardization of data types; and the problem of defining what is essential.



Blackburn v. Blackburn, 2016 WL 897006 (S.D.N.Y. Mar. 10, 2016) ([Case Report](#))