Workshop
Library Models and Standards, and Their Availability in the Semantic Web

Gordon Dunsire
Independent consultant, Edinburgh, UK. Email: gordon@gordondunsire.com

Prof. Mirna Willer, PhD
University of Zadar, Department of Information Sciences. Email: mwiller@unizd.hr

François Leresche
Bibliothèque nationale de France, Département de l'information bibliographique et numérique, Responsable du Pôle Modélisation fonctionnelle, Paris, France. Email: francoise.leresche@bnf.fr

Abstract
The workshop will discuss the impact of the Internet and World Wide Web on library processes and services from the point of view of its bibliographic standards and models, specifically the process of transforming metadata into library linked data.

The workshop will begin with an introduction to the W3C standard for the Semantic Web – the Resource Description Framework (RDF), its semantics and syntax - and with a short overview of activities in cultural heritage institutions in expressing their standards, vocabularies, etc., in it. Description of recent activities in expressing IFLA standards and models in RDF using Open Metadata Registry space for publishing them will be used as a case study to discuss problems and explain solutions reached so far. Relations (links) between and among standards and models that need to interoperate data will be discussed in the light of the recent IFLA ISBD (International Standard Bibliographic Description) and JSC RDA (Resource Description & Access) harmonization process.

The second part of the workshop will focus on the transformation of a traditional catalogue record into RDF triples, and their visualization as RDF graphs. BnF’s work on Open Linked Data will be used to demonstrate how RDF allows different schema to be represented in a common format. The workshop will explore how to link the sample resources via their triples.
Content of the Workshop:

Background and objectives
The Internet and World Wide Web have had a crucial impact on library processes and services. The objective of the workshop is to discuss this impact from the point of view of library’s bibliographic standards and models, specifically the process of transforming metadata into library linked data.

The target audience
The target audience includes professional librarians in the field of bibliographic information organization, researchers in the theory and practice of cataloguing, standardization officers, and designers of library systems and services.

The method
In the first part of the workshop an introduction to the W3C standard for the Semantic Web – the Resource Description Framework (RDF) - will be given, the level depending on participants’ acquaintance with it. This will be followed by an overview of recent activities in expressing IFLA standards and models in RDF using Open Metadata Registry space for publishing them. IFLA’s ISBD and FRBR will be used as a case study to discuss problems and explain solutions reached so far. The topic of standards alignment will be discussed in the light of recent IFLA ISBD Review Group and JSC/RDA (Resource Description & Access) harmonization process activities.

The second part of the workshop will focus on the transformation of a traditional catalogue record into RDF triples, and their visualization as RDF graphs. BnF’s work on Open Linked Data will be used to demonstrate how RDF allows different schemas to be represented in a common format.

Participants are encouraged to bring examples of metadata specific to their institution which will be used as a case study for hands-on experience with the goal of exploring how to choose appropriate standards in RDF from the OMR publishing space, and to link the sample resources via their triples.

Topics

The learning objectives
The workshop aims at informing participants of the recent developments in representing bibliographic standards in the RDF, the standard of the Semantic Web, and the transformation of bibliographic data into open linked data.

Duration
The workshop is planned to last for four hours (sessions): the first two sessions will tackle the tasks related to the introduction to the RDF and IFLA standards representation in RDF, the third session will demonstrate the BnF’s work on Open Linked Data, while the fourth will be used for the hands-on exercise. If there are no example(s) presented by the participant(s), prepared example will be used. It is expected that most discussion will take in the fourth session during the practical work on the example(s).

Curriculum Vitae
Gordon Dunsire is an independent consultant since 2010 ([www.gordondunsire.com]). Before that he was Depute Director (2002-2009) and Head (2009-2010) of the Centre for Digital Library Research, University of Strathclyde, Glasgow. His current research activity is focused on the Semantic Web and includes: representation of metadata content and structure standards; development of application building blocks such as application profiles; development of alignment and mapping methodologies for elements from different schema and communities. He publishes widely in the field.

He has received several professional awards, and is a member or chair of a number of professional affiliations such as CILIP Dewey Decimal Classification Committee, CILIP/BL Committee on RDA, DCMI Advisory Board, DCMI Bibliographic Metadata Task Group, IFLA Classification and Indexing Section, IFLA FRBR Review Group, IFLA Namespaces Technical Group, and IFLA ISBD Review Group. He was a member of the W3C Library Linked Data Incubator Group.
**Dr. Mirna Willer** is Professor at the Department of Information Sciences, University of Zadar, Croatia since 2007. Her teaching and research interests include the theory and practice of information organization, metadata and identifiers, digital web archives, interoperability, IFLA standards and models in the semantic web. She worked from 1980 to 2007 as systems librarian, standards officer and senior researcher at the National and University Library in Zagreb, Croatia. Among other international body memberships, she was a standing member of the IFLA Permanent UNIMARC Committee from its establishment in 1991 until 2005 (chair of Committee from 1997 to 2005), since then she has been its consultant and honorary member. She was also a member of the IFLA Working Group on FRANAR, the Working Group responsible for the development of the conceptual model FRAD, ISBD Review Group’s ISBD Future Directions Working Group, chair of the ISBD/XML Study Group, and since 2011 chair of the ISBD Review Group.

She publishes widely in the field; wrote a book on **UNIMARC in Theory and Practice**, a chapter on authority control, translated in the field of UBC such as **UNIMARC Manual: Bibliographic Format** and E. Svenonius’s **The Intellectual Foundation of Information Organization**, and edited the 3rd edition of **UNIMARC Manual: Authorities Format**.

**Françoise Leresche** is the chief of the Metadata Standards and Models Unit (Pôle Modélisation fonctionnelle) in the Bibliographic and Digital Information Department (Département de l’Information bibliographique et numérique) at the National Library of France (Bibliothèque nationale de France, BnF) since 2003. Previously she worked in diverse public and academic libraries where she had the responsibility for the cataloguing policy and the management of the bibliographic database.

Since 2003 she is chair of the working group within the French Organization for Standardization (AFNOR) which develops the French cataloguing standards and monitors the evolution of cataloguing rules at the international level; she currently leads the French work on RDA and the bibliographic framework transition. In addition, the Bibliographic and Digital Information Department at BnF is one of four partners in the French translation of RDA currently underway.

She was a standing member of the IFLA Permanent UNIMARC Committee from its establishment in 1991 until 1996, since then she has been an active member of the French UNIMARC Committee. Since 2008, she has been an elected member of the IFLA Cataloguing Section Standing Committee. She is a member of the IFLA FRBR Review Group, ISBD Review Group, and since 2011 chair of the ISBD/XML Study Group. She also serves as BnF’s representative in the European RDA Interest Group (EURIG).

**List of presentations and workshops** on the topic can be found at: [http://www.ifla.org/node/5664](http://www.ifla.org/node/5664), and additionally at G. Dunsire’s website [www.gordondunsire.com/publications.htm](http://www.gordondunsire.com/publications.htm).