**Cronograma de atividades**

**Prof. Visitante Prof. Dr. Dagobert Soergel**

Professor and chair, Department of Library and Information Studies, University at Buffalo

Coordenação: Profa. Gercina Lima

Coordenadora do PPGCI/UFMG

**Curso 15 horas**

**Meaningful Knowledge Organization Systems ( including ontologies) for user support and intelligent systems**

De 14 a 18 de maio de 9-12 horas, na sala 1000, ECI/UFMG

This course is intended for anyone who is working on information systems, whether in computer science, business, linguistics, communication, or information science.

**Part 1 Structure and uses of Knowledge Organization Systems (KOS)** gives an introduction to the wide range of KOS from simple word lists to formal ontologies and the wide range of functions that KOS can support. As an example, the course will elucidate the conceptual and vocabulary problems users face when searching in any kind of database, including the Web. It will then show how a well-structured KOS can be used as the knowledge base for an interface that can assist users with search topic clarification and with finding good search terms. The course will then discuss the KOS structure needed to support these functions: Concept-term relationships for vocabulary control and synonym expansion, conceptual structure (semantic analysis, facets, and hierarchy) for topic clarification and hierarchic query term expansion), and logical structure to support reasoning. It will introduce a few sample thesauri and other KOS to illustrate these principles.

**Part 2. Design, evaluation, and development** will give an overview of KOS development and show, through hands-on exercises, how to discern and elucidate the conceptual structure of a subject domain.

**Course objectives**

Students should (1) appreciate the complexity of subject access and understand the problems that a Knowledge Organization System (KOS) can help solve and (2) understand the wide range of functions KOS can support.

Students should understand the principles of KOS structure.

Students should be able to apply KOS structure to solving subject access problems.

Students should be able to identify and evaluate KOS suitable for a specific situation defined by a user community and by the collection of a digital library.

Students should be able to plan a KOS development project

Students should be able to discern and elucidate the conceptual structure of a subject domain

**Palestra: Illuminating Chaos: Using Semantics to Harness the Web -**

**Dia 22/05 às 14 horas no Auditorio Azul da ECI**

The Web is a chaotic place, even more so with the appearance of Wikis, blogs, and social tagging "in the wild". This talk aim sat providing a vision of the many ways classification can help. The first part will illustrate through a number of examples how classification -construed broadly as any approach to creating meaningful structure – can help with putting the vast amount of information on the Web to better use. People need meaningful classification to help them formulate queries, computer systems need either controlled vocabulary indexing (produced by people or automatically) or a semantic structure for mapping a semantic query into a free-text (Google) query for better retrieval. The huge amount of labor that goes into social tagging can be applied more effectively through gentle guidance, and the user-generated tags can be organized into a structure for easier search. Both people and computer systems need semantics to make sense of information once it is found. The second part will address the chaos of the many partially overlapping ontologies and other Knowledge Organization Systems that run wild on the Web. It will introduce the conceptual hub approach to KOS mapping that also provides the basis for universal facet-based search of the Web.

**Brief biography of the Instructor**

Dagobert Soergel holds an MS equivalent in mathematics and physics (1964) and a PhD in political science (1970), both from the University of Freiburg, Germany. Since Fall 2009 is professor and chair, Department of Library and Information Studies, University at Buffalo. Before that, he was Professor of Information Studies, University of Maryland, where he taught courses in information retrieval, thesaurus development, expert systems, and information technology, and an information systems consultant. He has been a visiting professor at the universities of Western Ontario, Chicago, and Konstanz, Germany. Among other books, he has authored *Organizing Information* (1985), which received the American Society of Information Science Best Book Award, *Indexing Languages and Thesauri. Construction and Maintenance* (1974) and numerous papers. He has designed several thesauri, most recently the Alcohol and Other Drug Thesaurus (for which he chaired the advisory committee) and the Harvard Business Thesaurus. In 1997 he received the American Society of Information Science Award of Merit.