

## BIOGRAPHICAL SKETCH

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NAME <b>Dagobert Soergel</b>	POSITION TITLE <b>Professor</b>		
eRA COMMONS USER NAME (credential, e.g., agency login)	<b>Department of Library and Information Studies          University at Buffalo          Director, Tracking and Evaluation</b>		
EDUCATION/TRAINING <i>(Begin with baccalaureate or other initial professional education, such as nursing, include postdoctoral training and residency training if applicable.)</i>			
INSTITUTION AND LOCATION	DEGREE	MM/YY	FIELD OF STUDY
University of Freiburg	BS	05/60	Physics
University of Freiburg	MS	05/64	Mathematics& physics
Staatliches Prüfungsamt Freiburg	Teaching Certificate	08/67	Mathematics& physics
University of Freiburg	PhD	08/70	Political science

### A. Personal Statement

While by educational background I have a foot in both the sciences and the social sciences, my professional and academic work in the last 50 years has been in organizing information. The tracking and evaluation task requires bringing together and organizing a large amount of information from disparate sources. I bring thorough knowledge of data modeling and ontologies to the task of designing an integrated database that stores both the evaluation model, all tracking data, and all data collected specifically for evaluation. In addition, I bring proposal and project review experience and thorough knowledge, acquired over a long career of research and supervising 25 PhD dissertations, of identifying the right variables, methods for data collection, and qualitative and quantitative data analysis, all needed in evaluation.

### B. Positions and Honors

- 1960 - 1961 Deputy for relations with developing countries, Student government Association, University of Freiburg
- 1961 - 1962 Founding secretary, Freiburg Office for Relations with Developing Countries
- 1963 - 1965 Systems analyst, Forschungsstelle für Weltzivilisation, Abteilung Dokumentation (Research Center for World Civilization, Documentation Department), Freiburg
- 1966 - 1967 Studienreferendar, Seminar für Studienreferendare, Freiburg
- 1967 - 1969 Head, Documentation Department, Stiftung Wissenschaft and Politik (Foundation Science and Politics), Ebenhausen
- 1969 - 1970 Head, Documentation Department, DATUM (Documentation and Training Center for Theory and Methods of Regional Science), Bad Godesberg
- 1970 - 2010 Visiting lecturer, Associate Professor, Associate Professor, College of Information Studies, University of Maryland
- 2007 – Professore Onorario, Department of Information and Communication Technology, University of Trento, Italy

2009 - Professor (2009-2012 Chair), Department of Library and Information Studies, Graduate School of Education, University at Buffalo

Visiting Professor at the Universities of London, Western Ontario, Chicago, and Konstanz, Germany, and the Fachhochschule (Polytechnic) Darmstadt, Germany

Consultancies: FDA Center for Food Safety and Applied Nutrition, (language for the description of foods), National Institute on Alcohol Abuse and Alcoholism (Alcohol and Other Drug Thesaurus), Harvard Business School (Harvard Business Thesaurus), FAO, and FDA Center for Drugs.

Proposal reviewer for NSF, NIH, and the European Commission. Project reviewer for the EU-funded DELOS Network of Excellence in Digital Libraries (2005 – 2008)

## **Awards and Honors**

FDA Commissioners Special Citation 1981 (for work on the Factored Food Vocabulary Committee)

American Society for Information Science, ASIS Best Information Science Book Award, 1986 (for Organizing Information)

Governor's Award for Volunteering Excellence (Virginia). Gold Medal, 1993.

American Society for Information Science, Award of Merit, 1997 (ASIST's highest award)

American Society for Information Science, Best JASIS Paper Award, 1999  
(for Wang, Peiling; Soergel, Dagobert. A cognitive model of document use during a research project. Study I. Document selection. J. of the American Society for Information Science. February 1998; 49(2): 115-133.)

Award for Contributions to Information Science and Technology (CISTA) 2008/2009  
Los Angeles Chapter of American Society for Information Science and Technology (LACASIST).

## **C. Peer-reviewed publications (selected, not including books)**

### **Health Sciences Related Publications**

A. McCann, J.A.T. Pennington, E.C. Smith, J.H. Holden, D. Soergel, and R.C. Wiley. 1988  
**Development of the Food and Drug Administration's Factored Food Vocabulary.**  
Journal of the American Dietetic Association. 1988.3; 88(3): 336-341.

D. Soergel, J.A.T. Pennington, A. McCann, J.H. Holden, E.C. Smith, and R.C. Wiley. 1992  
**A network model for improving access to food and nutrition data.**  
Journal of the American Dietetic Association. 1992.1; 92(1): 78-82.

Tse, Tony; Soergel, Dagobert. 2003  
**Exploring Medical Expressions Used by Consumers and the Media: An Emerging View of Consumer Health Vocabularies.** AMIA Symposium 2003; p. 564-8  
<http://lhncbc.nlm.nih.gov/lhc/docs/published/2003/pub2003025.pdf>

Dagobert Soergel, Tony Tse, Laura Slaughter. 2004  
**Helping healthcare consumers understand: An "interpretive layer" for finding and making sense of medical information.** Medinfo. 2004 Sept.; 2004:931-5.

Laura Slaughter, Dagobert Soergel, Thomas C. Rindflesch. 2006  
**Identification and Representation of semantic relationship types within consumer health questions and physician-provided answers.** International Journal of Medical Informatics. 2006 July 75(7): 513-529.

## Other Information Science Publications

Soergel, Dagobert. 1967

**Mathematical analysis of documentation systems. An attempt at a theory of classification and search request formulation.**

Information Storage and Retrieval. 1967.7; 3(3): 129-173. (Revised version of master thesis)

Fidel, Raya; Soergel, Dagobert. 1983

**Factors Affecting Online Bibliographic Retrieval: A Conceptual Framework for Research.**

Journal of the American Society for Information Science. 1983.5; 34(3): 163-180.

Wang, Peiling; Soergel, Dagobert. 1998

**A cognitive model of document use during a research project. Study I. Document selection.**

Journal of the American Society for Information Science. February 1998; 49(2): 115-133. (Best JASIS Paper Award 1999)

Soergel, Dagobert; Lauser, Boris; Liang, Anita; Fisseha, Frehiwot; Keizer, Johannes; Katz, Stephen. 2004

**Reengineering thesauri for new applications. The AGROVOC example.**

Journal of Digital Information, Volume 4 Issue 4, 2004 March, Article No. 257, [journals.tdl.org/jodi/article/viewarticle/112/111](http://journals.tdl.org/jodi/article/viewarticle/112/111)

Douglas W. Oard, Dagobert Soergel, Xiaoli Huang, Martin Franz, David Doermann, G. Craig Murray, Jianqiang Wang, Bhuvana Ramabhadran, Samuel Gustman. 2004

**Building an information retrieval test collection for spontaneous conversational speech.**

SIG-IR 2004, July p. 41-48. [malach.umiacs.umd.edu/pubs/malach\\_sigir04.pdf](http://malach.umiacs.umd.edu/pubs/malach_sigir04.pdf)

Nathalie Aussenac-Gilles, Dagobert Soergel 2006

**Text analysis for ontology and terminology engineering.** Applied Ontology. 2005; 1{1): 35 – 46

Huang, Xiaoli; Soergel, Dagobert 2006

**An evidence perspective on topical relevance types and its implications for exploratory and task-based retrieval.** Information Research. An international electronic journal. 2006 October;12(1).

<http://informationr.net/ir/12-1/paper281.html>

Anita Komlodi, Gary Marchionini, Dagobert Soergel. 2007

**Search history support for finding information: User interface design recommendations from a user study.** Information Processing & Management, Volume 43, Issue 1, January 2007, Pages 10-29

Pengyi Zhang, Dagobert Soergel, Judith Klavans, and Douglas Oard. 2008

**Extending Sense-Making Models with Ideas from Cognition and Learning Theories.**

American Society for Information Science and Technology Annual Meeting 2008, Sunday Oct. 26, Session on Sense Making. Online Proceedings, Paper 29, p. 1 - 23 [34 - 56]

Xiaoli Huang, Dagobert Soergel 2012

**Relevance: An improved framework for explicating the notion**

To appear in: Journal of the American Society for Information Science and Technology

## **D. Research support**

### **Ongoing research support**

IMLS National Leadership Grant Research PI Lin (Drexel) 10/1/2011 – 9/30/2014

Co-PI, in charge of subcontract to University at Buffalo.

This project will use participatory design to develop interfaces for improving library and museum searching and social tagging by presenting users with thesauri, taxonomies, and other structured vocabularies in user-friendly formats such as concept maps and test these interfaces through a prototype.

### **Completed research support**

IMLS Grant LG-30-08-0117-08 PI Klavans 10/1/2008 – 9/30/2011

The goal of the "T3: Text, Tagging and Trust to Improve Image Access for Museums and Libraries". research project is to improve access to digital image collections in museums and libraries for art historians, museum professionals, and the general public. T<sup>3</sup> combines text mining, social tagging, and trust inferencing to enrich metadata and personalize retrieval.

I was a senior researcher and consultant to the project.

IMLS Planning Grant PI Lin 9/1/2010 – 8/31/2011

Exploring Common Tools for Meaningful Concept Displays (MCD)".

Literature review and exploration of ideas to prepare for submitting a proposal for the actual work