

VITA

Carl Lagoze

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Education

1975 B.A., Cornell University, Urban Planning.
1987 M.S.E., Wang Institute of Graduate Studies, Software Engineering.

Professional Positions

2002-	Senior Research Associate, Cornell University Information Science
1998	Research Associate, Digital Library Scientist, Cornell University, University Library and Department of Computer Science
1996-1998	Project Leader, Digital Library Research Group, Cornell University, Department of Computer Science
1994-1996	Senior Software Engineer, Cornell University, Department of Computer Science
1993-1994	Senior Software Engineer, Cornell University, Mann Library
1990-1993	Project Manager GrammaTech Inc., Ithaca, NY
1987-1990	Research Engineer, Cornell University, Department of Computer Science
1981-1986	Director of Computing , Cornell University, Department of Chemistry
1977-1981	Programmer/Analyst, Cornell University, Veterinary Medical Computer Facility

Recent Professional Activities

Member, Advisory Committee, NSF National Virtual Observatory
Member, DFL Aquifer technology advisory group
Member, Board of Directors, Fedora Commons
Member, ERIC Steering Committee
Co-Director, Open Archives Initiative
Guest Editor, *EEE Internet Computing*
Member, Program Committee, Eleventh European Conference on Research and Advanced Technology for Digital Libraries; Joint Conference on Digital Libraries (2007); Eighth International Conference on Asian Digital Libraries; Open Repositories 2007; First Workshop on CyberInfrastructure: Information Management in eScience (CIMS)
Faculty, Joint NSDL-DELOS Summer School (2007)

Selected Technical Accomplishments

- Open Archives Initiative Protocol for Metadata harvesting – Co-invented OAI-PMH with Herbert Van de Sompel. The OAI-PMH enables metadata harvesting from a wide variety of data providers, with the goal of facilitating the construction of value-added services. The protocol is widely accepted as a fundamental part of information infrastructure.
- Fedora – Co-invented the Flexible and Extensible Digital Object and Repository Architecture with Sandy Payette. Fedora allows the storage, access, and manipulation of digital complex, dynamic, and distributed digital content. With support from the Andrew W. Mellon Foundation and in collaboration with the Advanced Digital Library Research Unit at the University of the Virginia, Fedora is distributed as open source software. The software is used internationally in a variety of implementations and has been incorporated by commercial vendors.
- ABC Metadata Ontology and Model – Co-invented ABC with Jane Hunter. ABC is a metadata model that incorporates multiple-entity and temporal (event) semantics. The model is therefore suitable for

expressing the dynamic and derivative aspects of digital objects. ABC is the basis of the history mechanism in the widely distributed DSpace software.

- Dienst – Co-invented Distributed Interactive Extensible Network Server for Technical Reports with James Davis. Developed and distributed in 1995, Dienst was the technical basis. Incorporating innovative notions such as simple metadata, open protocol access to services and metadata and availability of multiple disseminations of content, Dienst provided the foundation for later work including DSpace, eprints, OAI-PMH, FEDORA, and Dublin Core.

Cornell Information Science Program

Information Science at Cornell is an interdisciplinary program that studies digital information in its human and social context. The program studies three aspects of information: information systems, human centered systems, and social systems. The information systems portion of the program originates from the Cornell Digital Library Research Group (CDLRG), founded by Carl Lagoze in the Computer Science Department at Cornell. The work of the group led to innovations such as OAI-PMH, Fedora, ABC, and Dienst and a variety of NSF, DARPA, and Mellon, and industry funded projects.

Selected Teaching Experience

- Introduction to Design and Programming for the Web (2006) – This is an introductory course in Cornell Computing and Information Science for Information Science majors and interested students. It covers XHTML, CSS, PHP, and the principles in web site design.
- Seminar on Web Searching and Mining (2005) – This is a graduate seminar in Cornell Computer Science, with readings in topical subjects. The 2005 focus is the semantic web.
- Web Information Systems (2002-2007) – This is an upper level undergraduate and masters level course in Cornell Computing and Information Science that examines the tools and techniques for building and managing distributed information systems within the context of the World Wide Web. Course content examines the technical, economic, legal, and social issues in establishing higher levels of organization and management on Web resources.
- Introduction to Digital Libraries of Multimedia Collections (2001) – A half-day course offered at the First DELOS International Summer School on Digital Library Technologies (ISDL 2001). The course examined the architectures and issues in the storage and manipulation of complex digital objects in digital libraries.
- Metadata Workshop, Medical Library Association (2001-2002) – A full-day course introducing metadata issues, structures, and technologies to practicing medical librarians.

Awards

- 2006 DELOS Best Paper Award, European Conference On Research And Advanced Technology For Digital Libraries
- 2006 Vannevar Bush Best Paper Award, Joint Conference on Digital Libraries
- 2004 LITA Frederick G. Kilgour Award

Selected Grants

- 1999 – 2003 Project Prism: Information Integrity in Distributed Digital Libraries, \$2.2M National Science Foundation.
- 1999 – 2002 Harmony: Metadata Interoperability in Digital Libraries, \$920K National Science Foundation
- 1999- 2002 OpCit: Integrating and Navigating Eprint Archives through Citation-Linking, \$810K National Science Foundation
- 2000 Open Archives Initiative, \$100K Digital Library Federation and Coalition for Networked Information
- 2001 – 2004 The Open-Systems FEDORA Repository Development Project, \$1.1M Andrew W. Mellon Foundation

- 2004 – 2007 The Open-Systems FEDORA Repository Development Project (Phase 2), \$1.2M Andrew W. Mellon Foundation
- 2004 – 2007 Pathways: Lifecycles for Information Integration in Distributed Scholarly Communication, \$1.1M National Science Foundation
- 2006 – 2009 Repository Interoperability Framework, \$524K Andrew W. Mellon Foundation

Publications

Refereed Journals

- S. Warner, J. Bekaert, C. Lagoze, X. Liu, S. Payette, H. Van de Sompel, Pathways: Augmenting interoperability across scholarly repositories, *International Journal of Digital Libraries*, 2007.
- C. Lagoze, S. Payette, E. Shin, C. Wilper, Fedora: An Architecture for Complex Objects and Their Relationships, *International Journal of Digital Libraries*, 6(2), 2006.
- C. Lagoze and H. Van de Sompel, The Making of the Open Archives Initiative Protocol for Metadata Harvesting, *Library Hi Tech*, 21 (2), 2003.
- W.Y. Arms, N. Dushay, D.W. Fulker and C. Lagoze, A Case Study in Metadata Harvesting: the NSDL, *Library Hi Tech*, 21 (2), 2003.
- M. Doerr, J. Hunter, and C. Lagoze, Towards a Core Ontology for Information Integration, *Journal of Digital Information*, 4 (1), 2003.
- C. Lagoze and J. Hunter, "The ABC Metadata Ontology and Model", *Journal of Digital Information*, 2(2), 2001.
- J. R. Davis and C. Lagoze, "NCSTRL: Design and Deployment of a Globally Distributed Digital Library," *Journal of the American Society for Information Science (JASIS)*, 1999.
- S. L. Weibel and C. Lagoze, "An Element Set to Support Resource Discovery: The State of the Dublin Core," *International Journal of Digital Libraries*, 1 (1), 1997.
- C. Lagoze and J. R. Davis, "Dienst - An Architecture for Distributed Document Libraries," *Communications of the ACM*, 38 (4), 1995.

Refereed Conferences

- Y. Jo, C. Lagoze, and C. Lee Giles, Detecting research topics via the correlation between graphs and texts, KDD 2007, (San Jose 2007)
- P. Dmitriev and C. Lagoze, Mining Generalized Graph Patterns based on User Examples, in ACM SIGMOD/PODS 2007, (Beijing, China, 2007).
- C. Lagoze, D. Krafft, T. Cornwell, D. Eckstrom, S. Jesuroga, C. Wilper, Representing Contextualized Information in the NSDL. in 10th European Conference on Research and Advanced Technology for Digital Libraries, (Alicante, Spain, 2006).
- J. Bekaert, X. Liu, H. Van de Sompel, C. Lagoze, S. Payette, and S. Warner, Pathways Core: A Content Model for Cross-Repository Services. in *Joint Conference on Digital Libraries*, (Chapel Hill, NC, 2006), ACM/IEEE.
- C. Lagoze, D. Krafft, T. Cornwell, N. Dushay, D. Eckstrom and J. Saylor, Metadata aggregation and "automated digital libraries": A retrospective on the NSDL experience. in *Joint Conference on Digital Libraries*, (Chapel Hill, NC, 2006), ACM.
- P. Dmitriev and C. Lagoze, Automatically Constructing Descriptive Site Maps. in *Eighth Asia Pacific Web Conference*, (Harbin, China, 2006).
- S. Aya, C. Lagoze, T. Joachims, Citation Classification and Its Applications, presented at the second International Conference on Knowledge Management (ICKM2005), Charlotte, October 2005.
- P. Dmitriev, C. Lagoze, B. Suchkov, As We May Perceive: Inferring Logical Documents from Hypertext, presented at HT 2005 - Sixteenth ACM Conference on Hypertext and Hypermedia, Salzburg, September 2005.
- C. Lagoze, D. Krafft, S. Jesuroga, T. Cornwell, E. Cramer, E. Shin, An Information Network Overlay Architecture for the NSDL (poster), presented at JCDL 2005, Denver, CO, June 2005.
- P. Dmitriev, C. Lagoze, B. Sushkov, Finding the Boundaries of Information Resources on the Web (poster), presented at WWW2005, Chiba, Japan, May 2005.

- V. Weissman and C. Lagoze, Towards a Policy Language for Humans and Computers, presented at 7th European Conference on Research and Advanced Technology for Digital Libraries, Bath, UK, 2004.
- C. Lagoze, Bridging the Past and Future: Scholarly Communication in the 21st Century, presented at International Symposium on Digital Libraries and Knowledge Communities in Networked Information Society DLKC'04, Tsukuba, Japan, 2004
- A. Faaborg and C. Lagoze, Semantic Browsing, presented at 7th European Conference on Research and Advanced Technology for Digital Libraries, Trondheim, Norway, 2003
- H. Van de Sompel and C. Lagoze, Notes from the Interoperability Front: A Progress Report on the Open Archives Initiative, presented at 6th European Conference on Research and Advanced Technology for Digital Libraries, Rome, Italy, 2002.
- D. Bergmark, C. Lagoze, and A. Sbityakov, Focused Crawls, Tunneling, and Digital Libraries, presented at 6th European Conference on Research and Advanced Technology for Digital Libraries, Rome, 2002.
- C. Lagoze, W. Arms, et. al, "Core Services in the Architecture of the National Digital Library for Science Education (NSDL), Joint Conference on Digital Libraries 2002, July 2002, Portland, OR.
- C. Lagoze and J. Hunter, The ABC Ontology and Model, International Conference on Metadata, October 2001, Tokyo.
- D. Bergmark and C. Lagoze, An Architecture for Automatic Reference Linking. . In Fifth European Conference on Research and Advanced Technology for Digital Libraries, September 2001, Darmstadt.
- J. Cheney, C. Lagoze, and P. Botticelli, Toward a Theory of Information Preservation. In Fifth European Conference on Research and Advanced Technology for Digital Libraries, September 2001, Darmstadt.
- C. Lagoze and H. Van de Sompel. The Open Archives Initiative: Building A low-barrier interoperability framework. Joint Conference on Digital Libraries 2001, September 2001, Roanoke.
- J. Hunter and C. Lagoze. Combining RDF and XML Schemas to Enhance Interoperability Among Metadata Application Profiles. In 10th International World Wide Web Conference, May 2001, Hong Kong.
- C. Lagoze., J. Hunter, and D. Brickley. An Event-Aware Model for Metadata Interoperability. in ECDL 2000.September, 2000. Lisbon.
- S. Payette. and C. Lagoze. Policy-Enforcing, Policy-Carrying Digital Objects. in Fourth European Conference on Research and Advanced Technology for Digital Libraries. September, 2000. Lisbon.
- N. Dushay , J. C. French, and C. Lagoze, "Using Query Mediators for Distributed Searching in Federated Digital Libraries," Digital Libraries '99: The Fourth ACM Conference on Digital Libraries, Berkeley, 1999.
- J. Y. Halpern and C. Lagoze, "The Computing Research Repository: Promoting the Rapid Dissemination and Archiving of Computer Science Research," Digital Libraries '99: The Fourth ACM Conference on Digital Libraries, Berkeley, 1999.
- S. Payette and C. Lagoze, "Flexible and Extensible Digital Object and Repository Architecture (FEDORA)," presented at Second European Conference on Research and Advanced Technology for Digital Libraries, Heraklion, Crete, 1998.
- C. Lagoze, D. Fielding, and S. Payette, "Making Global Digital Libraries Work: Collection Service, Connectivity Regions, and Collection Views," presented at ACM Digital Libraries '98, Pittsburgh, 1998.
- R. Daniel Jr., C. Lagoze, and S. D. Payette, "A Metadata Architecture for Digital Libraries," presented at Advances in Digital Libraries, Santa Barbara, 1998.
- R. Daniel Jr. and C. Lagoze, "Distributed Active Relationships in the Warwick Framework," presented at IEEE Metadata Conference, Bethesda, 1997.
- J. Davis and C. Lagoze, ""Drop-in" publishing with the World Wide Web," presented at Second International World Wide Web Conference, Chicago, 1994.

Book Chapters

- S. Payette and C. Lagoze, "Metadata: Principles, Practices, and Challenges", in Moving Theory into Practice: Digital Imaging for Libraries and Archives, Association of Research Libraries.
- J. R. Davis, D. B. Krafft, and C. Lagoze, "Dienst: Building a Production Technical Report Server," in Advances in Digital Libraries: Springer-Verlag.

Invited Papers

- C. Lagoze. Business Unusual; How "event awareness" may breathe life into the catalog. in Bicentennial Conference on Bibliographic Control in the New Millennium. 2000. Library of Congress, Washington DC.
- C. Lagoze, Accommodating Simplicity and Complexity in Metadata: Lessons from the Dublin Core Experience. in Seminar on Metadata. 2000. Archiefschool, Netherlands Institute for Archival Education and Research, The Hague.
- C. Lagoze, "The Cornell Digital Library Research Group: Architectures and Policies for Distributed Digital Libraries", DLW17, Tsukuba, Japan, February 2000.

Moderated Journals

- H. Van de Sompel, C. Lagoze, J. Bekaert, X. Liu, S. Payette, S. Warner, An Interoperable Fabric for Scholarly Value Chains, *D-Lib Magazine*, 12(10).
- H. Van de Sompel, J. Bekaert, C. Lagoze, X. Liu, S. Payette, S. Warner, Rethinking Scholarly Communication: Insights from the Pathways Project, *D-Lib Magazine*, 12(10).
- C. Lagoze. What are digital libraries for anymore, anyway: beyond search and access in the NSDL. *D-Lib Magazine*, 11 (12).
- H. Van de Sompel, M. Nelson, C. Lagoze, and S. Warner, Resource Harvesting within the OAI-PMH Framework, *D-Lib Magazine*, 10(12), 2004.
- H. Van de Sompel, S. Payette, J. Erickson, C. Lagoze, and S. Warner, Rethinking Scholarly Communication: Building the System that Scholars Deserve, *D-Lib Magazine*, 10(9), 2004.
- S. Hitchcock, D. Bergmark, T. Brody, C. Gutteridge, L. Carr, W. Hall, C. Lagoze, S. Harnad, Open Citation Linking: The Way Forward, *D-Lib Magazine*, 8 (10), 2002.
- A. Kenney, N. McGovern, P. Boticelli, R. Entlich, C. Lagoze, and S. Payette, "Preservation Risk Management for Web Resources," *D-Lib Magazine*, 8 (1), 2002.
- C. Lagoze. Keeping Dublin Core Simple: Cross-Domain Discovery or Resource Description. *D-Lib Magazine*, January 2001.
- S. Payette and C. Lagoze, Value-Added Surrogates for Distributed Content: Establishing a Virtual Control Zone. *D-Lib Magazine*, 2000. June.
- H. Van de Sompel and C. Lagoze, "The Santa Fe Initiative of the Open Archives Initiative", *D-Lib Magazine*, February 2000.
- S. Payette, C. Blanchi, C. Lagoze, and E. Overly, "The Cornell/CNRI Digital Object and Repository Architecture: Experiments in Interoperability," *D-Lib Magazine*, May, 1999
- C. Lagoze and D. Fielding, "Defining Collections in Distributed Digital Libraries," *D-Lib Magazine*, November 1998.
- R. Daniel Jr. and C. Lagoze, "Extending the Warwick Framework: From Metadata Containers to Active Digital Objects," *D-Lib Magazine*, November 1997.
- C. Lagoze, "From Static to Dynamic Surrogates: Resource Discovery in the Digital Age," in *D-Lib Magazine*, 1997.
- C. Lagoze, "The Warwick Framework: A Container Architecture for Diverse Sets of Metadata," *D-Lib Magazine*, July/August 1996.
- C. Lagoze, "A Secure Repository Design for Digital Libraries," *D-Lib Magazine*, December 1995.

Reports

- N. Dushay and C. Lagoze, Modeling Decisions for Digital Content, June, 2000, Cornell University Computer Science.
- C. Lagoze, ed., "Resource Indexing and Discovery in a Globally Distributed Digital Library", NSF-EU Digital Library Research Collaboration, Spring, 1999.
- N. Dushay, J. C. French, and C. Lagoze, "Predicting Indexer Performance in a Distributed Digital Library," Cornell University Computer Science, Technical Report TR99-1743, May 1999.
- N. Dushay, J. C. French, and C. Lagoze, "A Characterization Study of NCSTRL Distributed Searching," Cornell University Computer Science, Technical Report TR99-1725, January 1999.

- S. Weibel, J. Kunze, C. Lagoze, and M. Wolf, "Dublin Core Metadata for Resource Discovery," Internet Engineering Task Force, Request for Comments 2413, September 1998.
- C. Lagoze and S. Payette, "An Infrastructure for Open Architecture Digital Libraries," Cornell University Computer Science, Technical Report TR98-1690, June 1998.
- L. Gravano, K. Chang, H. Garcia-Molina, C. Lagoze, and A. Paepcke, "STARTS: Stanford Protocol Proposal for Internet Retrieval and Search," Stanford University, Digital Library Project Working Paper January 1997.
- J. R. Davis and C. Lagoze, "The Networked Computer Science Technical Report Library," Cornell University Computer Science, Technical Report TR96-1595, July 1996.
- C. Lagoze, C. A. Lynch, and R. D. Jr., "The Warwick Framework: A Container Architecture for Aggregating Sets of Metadata," Cornell University Computer Science, Technical Report TR96-1593, June 1996.
- C. Lagoze, R. McGrath, E. Overly, and N. Yeager, "A Design for Inter-Operable Secure Object Stores (ISOS)," Cornell University, Computer Science Technical Report TR95-1558, November 1995.
- C. Lagoze and D. Ely, "Implementation Issues in an Open Architectural Framework for Digital Object Services," Cornell University, Computer Science Technical Report TR95-1540, September 1995.
- C. Lagoze, E. Shaw, J. R. Davis, and D. B. Krafft, "Dienst Implementation Reference Manual," Cornell University Computer Science, Technical Report TR95-1514, May 1995.
- J. R. Davis and C. Lagoze, "A protocol and server for a distributed digital technical report library," Cornell University Computer Science, Technical Report TR94-1418, June 1994.

Technical Specifications

- C. Lagoze, H. Van de Sompel, M. Nelson, and S. Warner, The Open Archives Initiative Protocol for Metadata Harvesting - Version 2.0, 2002.
- C. Lagoze, H. Van de Sompel, M. Nelson, and S. Warner, Implementation Guidelines for the Open Archives Initiative for Metadata Harvesting, 2002
- J. Davis, D. Fielding, C. Lagoze, R. Marisa, Dienst Protocol Specification, 2000.

Selected Invited Talks

- "National Science Digital Library: Building a Knowledge Base for Science, Math, and Engineering Education", Building the Info Grid, 2005 Copenhagen, Denmark.
- "Information Network Overlay Architecture: Adding Value to Digital Content", University of Pittsburgh Information Science Colloquium, 2005, Pittsburgh.
- "Rethinking Scholarly Communication: Building the System that Scholars Deserve". Symposium on Open Access to Knowledge and Scholarly Communication, 2004, Zurich, Switzerland
- "Moving Beyond Access: Digital Libraries to Support Education and Scholarship", 2004, Columbia University Library, New York
- "21st Century Scholarly Communication. Open Access, Open Dialog", BAD – 8th National Conference of Librarians, Archivists and Documentalists, 2004, Estoril Portugal
- "Back to the Past: Rediscovering Digital Libraries as Interactive Spaces", DLKC04, 2004 Tsukuba, Japan.
- "Technology, Scalability, Metadata (or not)", NSDL Annual Meeting, 2003, Washington D.C.
- "Open Archives Initiative: Where we are, Where we are going", 4th Open Archives Forum Workshop, 2003, Bristol, U.K.
- "Towards the Post-DL Age", NSF Post-DC Futures Workshop, 2003, Chatham, MA.
- "National Science Digital Library", Common Solutions Group, 2003, Austin.
- "OAI and a Large-Scale Digital Library", CERN OAI Workshop, 2002, Geneva.
- "The Open Archives Initiative: a low-barrier framework for interoperability", CODATA 2002, Montreal.
- "The Open Archives Initiative and Scholarly Publishing", Society of Scholarly Publishing 2002, Boston.
- "The Open Archives Initiative: building a framework for digital library interoperability", IFLA 2001, Boston.
- "Breaking down the walls", University of Washington Information School, June 2001
- "Metadata Musings", University of Virginia, April 2001.
- "Business Unusual: How event-awareness can breathe life into the catalog", Bicentennial Conference on Bibliographic Control in the New Millennium. November, 2000. Library of Congress, Washington DC.

- “The Networked Computer Science Technical Reference Library”, Conference of the American Society of Information Science and Technology, Chicago, November, 2000.
- “Organizing Anarchy”, Electronic Commerce in the Information Industries, University of Illinois, March 2000.
- “Architecture and Policies for Distributed Digital Libraries”, Tsukuba, Japan, February 2000.
- “The Open Archives Initiative”, CNI Mid-Year, Phoenix AR, December 1999.
- “Experience with the Dublin Core Metadata Set: Are Simplicity and Complexity Good Bedfellows?”, USDA Metadata Workshop, Washington DC, November 1999.
- “Metrics for Federated Digital Libraries”, ASIS mid-year, Pasadena, California, May 1999.
- “A Canadian Metadata Roadshow”, Fredericton N.B., Toronto Ontario, and Edmonton Alberta, May 1999.
- “Metadata for Digital Libraries”, CIMI Workshop, Ottawa Canada, May 1999.
- “Digital Libraries for Scholarly Research: NCSTRL and Dienst”, University of Southampton Guest Lecture, Southampton U.K, February 1999.
- “Rapid Dissemination of Research Results: The NCSTRL Experience”, presented at *Metadata: Interoperability and Heterogeneity, IuK Commission of the Learned Societies in Germany*, Bonn, Germany, December 1998.
- “Metadata Challenges for Libraries”, presented at *Metadiversity 1998*, Natural Bridge, Virginia, November 1998.
- “Metadata for Networked Objects”, presented at *Second European Conference on Research and Advanced Technology for Digital Libraries*, Heraklion, Crete, September 1998.
- “Dienst: Distributed Networked Publishing”, presented at *Common Solutions Group Meeting*, State College, Pennsylvania, June 1998.
- “Managing Chaos through Containment”, presented at *ACLS/LITA Metadata Institute*, Washington, DC, May 1998.
- “Using Web Metadata”, presented at “*Sixth International World Wide Web Conference*, Brisbane, Australia, April 1998.
- “An Open Architecture for Federated Digital Libraries”, presented at *Digital Libraries Asia*, Singapore, March 1998.
- “Naming Networked Objects”, presented at *Educom '97*, Minneapolis, Minnesota, October 1997
- “Metadata in Context: Warwick Framework and Digital Object Architecture”, presented at *First European Conference on Research and Advanced Technology for Digital Libraries*, Pisa, Italy, June 1997.
- “Metadata for Networked Objects”, presented at *CENDI Workshop*, Philadelphia, PA, April 1997

Selected Research Collaborators

William Y. Arms, Cornell University
 Thomas Baker, GMD
 John Erickson, HP
 Geri Gay, Cornell University
 Paul Ginsparg, Los Alamos National Laboratory
 Joseph Y. Halpern, Cornell University
 Stephen Harnad, University of Southampton
 Jane Hunter, DSTC
 Clifford Lynch, CNI
 Michael Nelson, Old Dominion University
 Sandy Payette, Cornell University
 Fred Schneider, Cornell University
 Thornton Staples, University of Virginia
 Herbert Van de Sompel, Cornell University
 Simeon Warner, Cornell University
 Stuart L. Weibel, OCLC