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PRESIDENT'S COLUMN

It's cherry blossom time in Washington, but I doubt if I'll catch many blossoms. I've got my head buried in the annual GIS proceedings volume. Most of the papers and reports are in and any stragglers will have heard from me before you get a chance to read this. Thanks to all of you who have sent your papers to me so promptly!

Inside this issue you will find the "final" committee lists for this year. I have tried to honor as many committee requests as possible. As I write this, the chair is still open for the Exhibits Committee. Anyone with any interest should drop me a note. As I have worked through the committee lists, I have been impressed by the amount of work that our committees accomplish and I encourage anyone with an interest to join one. It's never too late!

On February 23 I represented GIS at the Geological Society of America's Associated Societies meeting. This meeting was the first of its kind. The purpose of the meeting was to explore possible cooperative arrangements between GSA and its Associated Societies and to improve already existing arrangements. The GSA Bylaws define an eligible Associated Society as one 'that has aims consistent with those of The Geological Society of America, that is, the advancement of the science of geology' and such a society may 'associate itself with the Society for the purpose of cooperation in annual, sectional or divisional meetings, in publications, or in other appropriate ways.' GIS currently holds its annual meeting with GSA and participates in GSA's Publications Committee. Discussion centered around possible areas of cooperation including meetings,

education, public policy, publications and international activities. Working Groups were formed for all of the potential areas of cooperation and each Working Group will present ideas to the current GSA President-Elect, Tony Naldrett, before the next GSA Council Meeting.

Two areas of particular interest to GIS are, of course, meeting arrangements and publications. GSA indicated that future meetings would continue to alternate between Denver and other U.S. cities on either a two- or three-year basis. Some societies expressed concern that our memberships would grow tired of returning to Denver so often. GSA will monitor attendance closely in case this geographic issue becomes a problem. GSA announced that their Publications Group is interested in working with its Associated Societies to establish a collection of electronic geoscience publications. Discussion of this topic was limited because each society has different publishing arrangements and needs. The Working Group on Publications should have more to report by the time of the annual meeting in Boston.

Meanwhile, if any GIS members have ideas about cooperative ventures with GSA, please let me know!

VICE PRESIDENT'S COLUMN

The proposal for "Geoscience Information: a Dynamic Odyssey" has been accepted as Topical Session Number 72 for the technical program of the GSA Annual Meeting in Boston. 86 other Topical Sessions and 8 Pardee sessions have been approved for the conference.

You should receive the first announcement for the conference from GSA in April. The call for papers and electronic abstract form should also be available then. Please continue to contact me about your ideas for talks and other events at the conference.

I have started working on the field trip around the original Boston shoreline. I will probably divide the walking tour into two segments to give a breakpoint for anyone who needs to catch an early plane.

I am planning a reception and tour at MIT during the conference. If you come to IFLA in August, you probably won't see my library, because we'll be in the midst of a complicated compact shelving project. It should be finished

(continued, p. 3)

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GIS members are encouraged to contribute materials for publication. Material for the June, 2001 issue should be received no later than May 25, 2001. If possible, please send materials by e-mail or on DOS-compatible disc.

GIS COMMITTEES for 2001

Archives		Exhibits		Nominating	
Mary Krick, Chair	2000-2002	Chair	(Vacant)	Lois Heiser, Chair	2001
Diane Baclawski	1998-2001	Karen Bolm	1998-2001	Martha Andrews	2000-2002
Nancy Duran	2000-2002	Kay Johnson	2000-2002	David Lepse	2000-2002
Lois Pausch	2000-2002			Janice Sorenson	1998-2001
Best Paper Award		GeoRef Users' Group Steering Committee		Preservation	
Thelma Thompson, Chair	2001-2003	Nancy Blair, Chair	1997-2001	Elaine Clement, Chair	1998-2001
Renee Davis	1998-2001	Annick Anceau	1998-2001	Regina Brown	2000-2002
Nancy Duran	2000-2002	Jane Ingalls	2001-2003	Gloria Chawla	2000-2002
Chip (Julian) Green	1998-2001	Carolyn Laffoon	1998-2001	Kristi Jensen	2001-2003
John Hunter	2001-2003	Ann Priestman	1998-2001	Carolyn Laffoon	1998-2001
Lura Joseph	2000-2002	Jane Stephens	2000-2002	Pauline Kamel	1999-2002
Patricia Ziedler	1998-2001	Andrea Twiss-Brooks	2000-2002	Lois Pausch	1998-2001
				Mary Scott	2001-2003
				Susan Skinner	2000-2002
Best Reference Work (Mary B. Ansari) Award		Guidebooks Standards		Public Affairs	
Janice Norris, Chair	1998-2001	Lisa Dunn, Chair	2001-2003	Marie Dvorzak, Chair	2000-2002
Michael Farmer	1998-2001	Janice Jaguszewski	2000-2002	Diane Baclawski	2000-2002
Linda Musser	2000-2002	Mary Krick	2000-2002	John Mulvihill	1998-2001
Linda Newman	2001-2003	Carol Messick	1998-2001	Lisa Wishard	1998-2001
Sally Scott	1998-2002	Karen G. Piquine	2000-2002		
Charles Weston	2000-2002			Union List of Field Trip Guidebooks	
Thomas Zogg	1998-2001			John Mulvihill, Chair	1998-2001
Collection Development Issues		International Initiatives		Dena Hanson	1998-2001
Charlotte Derksen, Chair	2001-2003	Claren Kidd, Chair	2001-2003	Lura Joseph	1998-2001
Barbara DeFelice	2000-2002	Zelda Colodner	1998-2001	Carol La Russa	1998-2001
Li-Mei Chen	1998-2001	Julie Hallmark	1998-2001	Carol Messick	1998-2001
Steve Hiller	2001-2003	Dena Hanson	1998-2001	Jim O'Donnell	1998-2001
Timothy Keel	2000-2002	Shaun Hardy	2001-2003	Caryl Shields	2000-2002
Carol La Russa	1998-2001	Independencia Iselidh	1998-2001	Louise Zipp	2000-2002
Pat Yocum	2000-2002	Dorothy McGarry	1998-2001		
		Nora Tamberg	2000-2002	Reviewers	
		Julie Triplehorn	2000-2002	Regina Frackowiak	2000-2002
				Dorothy McGarry	1998-2001
Digital Data		Membership		Website Advisory Committee	
Adonna Fleming, Chair	2001-2003	Barbara DeFelice, Chair	1998-2001	Jim O'Donnell, Chair	1998-2001
Chris Badurek	1998-2001	Karen Bohm	1998-2001	Edward Lener	2001-2003
Roberta Brody	1998-2001	Beverly Chen	1998-2001	Joanne Lerud	2001-2003
Patricia Cotosman	1998-2001	Mary Krick	1998-2001	Dennis Trombatore	1998-2001
Lisa Dunn	1998-2001	Connie Manson	2001-2003	Elizabeth Wallace	1998-2001
Katie Frohberg	2000-2002	Clara McCleod	1998-2001		
Lorraine Knox	1998-2001	Elizabeth Wallace	1998-2001		

(continued, from p. 1)

before our meeting. Yes, even in times of heavy electronic journal and database use, we still have to worry about physical shelf space. Maybe we just need a few more quarks.

And now for our Boston anecdote: Since moving here, I noticed that when two roads happen to graze each other, you get a town. Whenever two streets meet, you form a

square. A pile of glacial debris in Boston Harbor forms an island. Several of the islands in Boston Harbor are now part of a national recreation area. You will see them on your descent into Logan if you are flying to the conference. You can visit the islands in the summer and weekends in the spring and fall or just view them at www.nps.gov/boha/

GIS Representatives – Changes for 2001

AGI, GeoRef Advisory Committee
Suzanne Larsen, 1997-2001
AGI, Member Society Council
Charlotte Derksen, 2000-2002
ALA, MAGERT,
Thomas Zogg, 1998-2001
Cartographic Users Advisory Council
Clara McLeod, 1997-2001
Richard Spohn, 1998-2001

Vacancies

Anyone interested in filling these vacant representative positions, please contact Sharon Tahirkheli at SNT@AGIWEB.ORG

AGI, Environmental Geoscience Advisory Committee
ALA, PARS
North American Cartographic Info. Society

LITERATURE REVIEWS

by

Carol J. La Russa

Paula De Stefano has written an article titled "Selection for Digital Conversion in Academic Libraries" in which she compares the ways print collections have been developed with the ways digital collections can be developed. She describes a variety of selection methodologies for preservation that have mainly been applied to microfilming projects. One is the "clean sweep method" in which all materials from the years 1870 to 1910 are targeted because of their brittle paper. Another related method focuses on comprehensive collections on particular subjects for this time period. A different method divides library materials into three classes: special collections-type materials, high-use items, and less frequently used research materials and suggests different preservation methods for each. The author notes that most preservation projects have concentrated on less-used materials and she questions the appropriateness of these efforts because of their limited utility for the majority of academic library users. (*College & Research Libraries*, v. 62, no. 1, p. 58-67, 2001.)

Another article in *College & Research Libraries* describes a research project that looked at student use of the Web. It found that students used unevaluated resources and that there is a gap between faculty expectations and student use of Web materials. Librarians and instructors need to teach students how to use Web materials. (Deborah J. Grimes and Carl H. Boening, "Worries with the Web: A Look at Student Use of Web Resources," v. 62, no., p. 11-23, 2001).

Kenneth Frazier questions the wisdom of the libraries entering into contracts for aggregations of particular publisher's journals in electronic form. He believes they sacrifice flexibility and will in the end be paying for materials they don't need. Instead libraries should invest in experiments like the SPARC project. ("The Librarians' Dilemma: Contemplating the Costs of the "Big Deal," *D-Lib Magazine*, v. 7, no. 3, 2001, www.dlib.org)

Lee L. Zia describes NSF's National Science, Mathematics, Engineering, and Technology Education Digital Library (NSDL) program in his article in *D-Lib Magazine*,

"Growing a National Learning Environments and Resources Network for Science, Mathematics, Engineering, and Technology Education: Current Issues and Opportunities for the NSDL Program," v. 7, no. 3, 2001, www.dlib.org

In *Issues in Science and Technology Librarianship*, Ed Pentz describes the CrossRef system which assigns unique Digital Object Identifiers to electronic journal articles and which allows DOI's to be retrieved by using bibliographic data. This allows linking from citations given in an article to the electronic versions of the cited articles. ("CrossRef: A Collaborative Linking Network," Winter, 2001, www.istl.org).

The January/February issue of *Online* contains an article on UCITA, the Uniform Computer Information Transactions Act, which discusses its possible implications for libraries in the states where it is adopted. (So far only Maryland and Virginia have enacted UCITA). Vicki L. Gregory is concerned that libraries may lose fair use exceptions that have allowed interlibrary loan. Also libraries may be bound to license terms of software acquired by users without permission. In addition UCITA allows software companies to prohibit product reviews as a condition for licensing their products. ("USCITA: What Does it Mean for Libraries," v. 25, no. 1, 2001, p. 30-34).

Candy Schwartz gives an overview of the components of a digital library in her article in the *Journal of Academic Librarianship*. She begins by giving a variety of definitions of a digital library and lists some of the major digital library initiatives including those of the NSF. She discusses the whys of digital libraries and the importance of preservation, archiving, and organization (including metadata). A digital library is more than just content and must or should include search functions, the answering of reference questions, user training, current awareness, and cooperative activities with educators. Other issues are the interactions of users with the digital library; economic support; maintenance of the equipment, software, and collections; intellectual property right management; and evaluation. ("Digital Libraries: An Overview," v. 26, no. 6, p. 385-393, 2000).

JOB ANNOUNCEMENTS

Geology and Digital Maps Librarian, Indiana University Libraries, Bloomington

The Geology and Digital Maps Librarian is responsible for the leadership and overall management of the Geology Library, including planning, supervising, and evaluating the library's services, operations, and collections. Develops the Website, provides bibliographic instruction and reference services. Selects materials based on the needs of current and future constituents and develops external funding opportunities including grants, gifts and exchanges. Makes determinations about materials to transfer to off-site shelving. Promotes the Geology Library's resources to encourage their use and recognition. Participates in relevant professional associations. In consultation with specialists in the Digital Library Program and elsewhere on campus, coordinates the Libraries' involvement in the creation, acquisition, organization, delivery, and archiving of digital maps and other large scientific datasets. Coordinates the Libraries' involvement with other units on campus actively engaged in this enterprise, including faculty and students in geography, anthropology, political science, and at research centers (e.g., the NSF-funded project on global change), using GIS and remote sensing. The incumbent is expected to be conversant in GIS applications and to recommend the appropriate role for the Libraries on campus in the provision of software, hardware, and technical expertise to access and archive geospatial information. Together with the Geography/Maps Librarian, investigates and implements new ways to manage and provide services to repositories of printed and digital maps.

Qualifications--Required: ALA-accredited degree in library or information science with a university degree in a scientific discipline or equivalent combination of education and experience. Knowledge of scholarly information trends in the physical sciences. Ability to work independently and collegially in a complex, rapidly changing, and culturally diverse environment. Strong analytical and quantitative skills. Excellent oral, written, and graphic communication skills. Experience in managing library operations. Ability to meet the requirements of a tenure-track appointment.

Qualifications--Preferred: Second advanced degree in relevant subject area. Collection development experience in a scientific discipline. Experience with geospatial data management and metadata standards and practices. Preference will be given to candidates who are familiar with GIS software and have additional technology experience, including SGML/XML, skills in the uses and applications of database systems, programming languages and NT or UNIX operating systems, work with metadata and digital imaging.

Salary and Benefits: Salary and rank are negotiable and competitive dependent upon qualifications and experience. This is a tenure-track academic appointment that includes eligibility for sabbatical leaves. Benefits include a

university health care plan, TIAA/CREF retirement/annuity plan, group life insurance, and liberal vacation and sick leave.

To Apply: Review of applications will begin on March 12, 2001. The position will remain open until filled. Send letter of application, professional vita, and the names, addresses, and phone numbers of four references to: Yolanda Cooper-Birdine, Libraries Human Resources Officer, Indiana University Libraries, Main Library 201A, Bloomington, IN 47405. Phone: (812) 855-8196; Fax: (812-855-2576; e-mail: ycooperb@indiana.edu <<mailto:ycooperb@indiana.edu>>. For further information concerning Indiana University: <<http://www.iub.edu>>, the Geology Library (<<http://www.indiana.edu/~libgeol/index.html>>), or employment opportunities at the IUB Libraries: <<http://www.indiana.edu/~libpers>>. Indiana University is an affirmative action/equal opportunity employer.

Science Electronic Resources Specialist, University of Colorado, Boulder

This is a tenure-track faculty position reporting to the Head of the Science Library. The Science Library is located in the main library (Norlin Library) and contains the research collections in biology, chemistry, history of science, kinesiology, museum studies, psychology, and speech disorders. Duties include reference, collection development, bibliographic instruction, liaison activities, and outreach efforts for distance education. This position will collaborate in the development of an instructional computer lab and will work closely with the University Libraries Systems Office as computer applications liaison for the Science Library. A significant part of this position involves research and creative work and a commitment to service, in keeping with the tenure standards of the University of Colorado at Boulder.

Requirements: Master's degree from an ALA-accredited library school; an undergraduate or graduate degree in the sciences (three or more years of experience in an academic science library may be substituted for a degree in the sciences); a minimum of two years experience in an academic or research oriented science library; a working knowledge of information technologies utilized in science libraries; excellent oral and written communication skills, potential for research, and a strong commitment to public services.

Preferences: Demonstrated knowledge of educational and instructional technologies in the sciences, expertise with electronic information resources and services including internet applications relevant to the sciences, demonstrated expertise with electronic classrooms and/or multimedia laboratories, a working knowledge of HTML and the Windows operating system, demonstrated experience in a collaborative environment with shared responsibilities, knowledge and/or experience in providing library services for

distance learning, collection development responsibility in the sciences with an emphasis on electronic resources, experience building successful collaboration with university teaching faculty or science professionals.

Appointment and Salary: The successful candidate with demonstrated accomplishments in research and creative work will be appointed as a full-time (12 month) Assistant Professor on the tenure track. A successful candidate with promise in research but lacking an established scholarly record will be appointed as a senior instructor (non-tenure track) for two years, with promotion to the tenure track and the rank of Assistant Professor upon a successful review. Preference will be given to candidates at the assistant professor rank, but exceptional candidates at higher ranks will be considered. The starting salary range will be \$36,500 - \$41,000. Faculty perquisites include support for scholarly/professional activities, retirement plans, and liberal vacation and sick leave benefits.

Application: Review of applications and nominations will begin immediately and continue until the position is filled. It is suggested that applications be on file with the committee by February 16, 2001. Send letter of application specifically addressing qualifications for the position; resume; and names, addresses, and telephone numbers of three references to Scott Seaman, Associate Director for Administrative Services, University Library, 184 UCB, University of Colorado, Boulder, CO 80309-0184. The University of Colorado at Boulder strongly supports the principle of diversity. We are particularly interested in receiving applications from women, ethnic minorities, disabled persons, and veterans.

Science Reference Librarian for Engineering,

Binghamton University, State University of New York
Binghamton University, State University of New York, seeks to fill a library faculty position for the Science Library, which houses materials in the physical and natural sciences, engineering, and nursing.

Description: The librarian in this position participates in the Science Library's reference service, develops and maintains library resources for the Watson School of Engineering and Applied Science, acts as a primary liaison and plans and implements library instructional programs for the Watson School. Position reports to Head of Science Library.

Qualifications: Required: An MLS from an ALA-accredited institution; working experience with electronic information resources, particularly those related to science and technology; degree in science and/or recent experience in reference and instruction in the sciences or technology in an academic or special library; effective interpersonal and analytical skills; demonstrated clarity in oral and written communications; demonstrated initiative and ability to work independently and as a team member in developing services and completing projects; strong commitment to service and

professional development.

Finalists invited for an interview must demonstrate communication skills and knowledge of public services through a presentation to library faculty, staff, and other members of the university community.

Compensation: Appointment at Assistant or Senior Assistant Librarian rank, depending on qualifications and experience. Salary minimum for Assistant Librarian \$31,000, plus excellent fringe benefits including TIAA/CREF.

Environment: Binghamton University is nationally recognized for its strong academic programs, distinguished faculty, and talented students. Nineteen specialized research centers attract scholars from around the globe to Binghamton's modern campus. One of four university centers within the State University of New York, Binghamton enrolls approximately 12,000 students in programs leading to bachelor's, master's, and doctoral degrees. Binghamton University Libraries collections consist of approximately 1.6 million volumes. We are currently implementing Ex Libris's Library Management System as part of SUNYConnect, a SUNY-wide project that will create a linked online catalog, universal library borrowing, document delivery services, and a full-text digital collection for over 60 campuses within the SUNY system. For more information on Binghamton University, visit our web presence at <http://www.binghamton.edu>.

Application: Mail or fax a cover letter (no electronic applications), current resume, and names, addresses and telephone numbers of three professional references to Mary Ann Sincavage

Assistant to the Director for Personnel Administration
Binghamton University Libraries
State University of New York
P.O. Box 6012
Binghamton, NY 13902-6012
Fax 607-777-4848

For priority consideration, applications should be received by March 23, 2001. Applications will be accepted until the position is filled.

Binghamton University is an Equal Opportunity/Affirmative Action Employer.

Digital Cartography Specialist, Harvard College Library
Map Collection, Cambridge, MA

Duties and Responsibilities: Reporting to Head of the Harvard Map Collection, is responsible for providing a wide variety of student and faculty access to digital cartography services of the Harvard Map Collection. Assesses patron's mapping needs, chooses appropriate software and data; provides reference assistance to the cartographic CD-ROM and web links collections; assists in production of basic thematic maps in the GIS environment or the desktop publishing environment, applies appropriate cartographic design to complex GIS projects, assists patrons to scan historical

maps, gathers/ archives geospatial data for collection; maintains Harvard Map Collection website, recommends acquisition of cartographic software and data; installs new CD-ROMs on the public computer cluster; manages student reservation for time and space; provides reference assistance within Map Collection.

Required Education: BA in geography, graphic design, computer science or related discipline required; experience in digital cartographic design and scanning software preferred; basic skills in Arc View, MapInfo, Maptitude, or other PC based GIS software required; must have excellent public service attitude and desire to work with a diverse clientele; experience working in a Windows NT environment, with Microsoft Office suite of products and software installation, and printer/plotter maintenance preferred; excellent oral, written, and graphic communication skills with experience in needs assessment and creating instructional documentation

Additional Web Position Listing: The Harvard Map Collection, the oldest map collection in America, is home to over 400,000 maps, 15,000 atlases and books, hundreds of digital files, and is home to the interactive Massachusetts Electronic Atlas.

How To Apply: Apply on-line at http://jobs.harvard.edu/jobs/summ_req?in_post_id=10302 or send your resume and cover letter to

Harvard University
Resume Processing Center
Req# 9221
11 Holyoke Street
Cambridge, MA 02138

Please note that upon submitting your credentials, you will become part of Harvard's new applicant database, and therefore, may be considered for other suitable positions at the University.

Harvard University is an equal opportunity employer committed to diversity.

Enquiries and questions about this position may be directed to David Cobb, Harvard Map Collection, Harvard College Library, Cambridge, MA 02138. Tel. 617.495.2417. Email: cobb@fas.harvard.edu.

Note: The address for our listserv has changed! It's now **geonet@purdue.edu**

The list will no longer be mediated, so your messages will go in "as is." Our thanks to GIS's listserv editor, Carolyn Laffoon and the IT folks at Purdue for all their help with this transition.

MEMBERS IN THE NEWS

Linda Musser has been appointed to the National Research Council's Committee on the Preservation of Geoscience Data and Collections. The Committee will examine the issues associated with access to and preservation of geoscience data. The overall goal of the study is to develop a comprehensive strategy for managing geoscience data in the United States.

Geoscience Materials in the Making of America

by

Linda Musser

Earth and Mineral Sciences Library
Pennsylvania State University

The Making of America (MOA) project is an endeavor to preserve and provide access to materials published in the United States during the antebellum period through reconstruction, approximately 1850-1877. While the focus of the project is on American social history, included in the digitized materials are many resources relating to the sciences. The MOA can be searched using keywords, author or title information. A search for works containing the words geolog* or mineral* retrieved 259 books and 246 journal articles. A similar search of the full text retrieved approximately 20,000 hits in 8-9000 works. While these numbers may not be vast in comparison to current full text journal archives, they represent a significant body of older works, and one of the few freely-accessible full text monographic archives. Included in the MOA project are some of the classic works of American geology such as the *Geological Exploration of the Fortieth Parallel* and Dana's *Manual of Mineralogy*. Some state geological survey publications are also included. Funded by the Andrew W. Mellon Foundation, the project is a collaborative effort between the University of Michigan and Cornell University. The MOA can be accessed at <http://moa.umdl.umich.edu/> or <http://moa.cit.cornell.edu/moa/> and currently contains over 8,500 books and 50,000 journal articles. For those needing access to older materials on U.S. geology and to geoscience librarians interested in preservation and access efforts related to the geosciences, this is a useful resource.

GIS PUBLICATIONS LIST

Proceedings of the Annual GIS Meetings (ISSN 0072- 1409) \$45.00 each; standing orders are \$45.00 per year.

(Proceedings volumes 1 through 25 are out of print and available from: Out-of-print Books on Demand, University Microfilms, Inc., 300 North Zeeb Road, Ann Arbor, Michigan 48106.)

--v. 30, 2000, *Communication Divides: Perspectives on Supporting Information Bridges in the Geosciences*, ed. by Lois Heiser, (ISBN 0-934485-32-1)

--v. 29, 1999 *Accreting the Continent's Collections*, ed. by C. R.M. Derksen and C. J. Manson, (ISBN 0-934485- 31-3)

--v. 28, 1998 *The Costs and Values of Geoscience Information*, ed. by C. J. Manson. (ISBN 0-934485- 29-1)

--v. 27, 1997 *Expanding Boundaries: Geoscience Information for Earth System Science*, ed. by B. J. DeFelice. (ISBN 0-934485-23-2)

v. 26, 1996 *Crossing the Bridge to the Future: Managing Geoscience Information in the Next Decade*, ed. by N. L. Blair. (ISBN 0-934485-26-7)

Proceedings of the International Geoscience Information Conferences

6th, 1998 *Science Editing and Information Management*, Proceedings of the Second International AESE/CBE/ EASE Joint Meeting, Sixth International Conference on Geoscience Information, and Thirty-second Annual Meeting, Association of Earth Science Editors, ed. by Connie J. Manson. (ISBN 0-934485-30-5) \$ 25.00

5th, 1994 *Geoinfo V, Proceedings of the 5th International Conference on Geoscience Information*, ed. by Jiri Hruska. (ISBN 0-934485-27-5) \$ 45.00 (2 vols.)

Directory of Geoscience Libraries, North America. 5th Edition, 1997. (ISBN 0-934485-25-9) Paper. \$ 35.00

GIS Newsletter (ISSN 0046-5801) published bimonthly; calendar year subscriptions only. United States and Canada \$ 40.00; other countries (via airmail) \$ 45.00

Mailing labels: Geoscience Information Society member mailing labels: Single use labels \$ 100.00.

Send orders to: Elizabeth Wallace
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Syracuse, New York 13244-2010
phone: 315/443-2160; fax: 315/443-5549; e-mail: eawallac@library.syr.edu

Payment must be made in U.S. dollars.



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newsletter

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