



NEWSLETTER

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PRESIDENT'S COLUMN

I know that many of you are sweltering in what seems to be an endless heat wave. I hope that by the time that you receive this newsletter that heat is a thing of the past.

Upcoming Conference in Denver

Now is the time to be scheduling your hotel and booking your flights to the GSA annual meeting in Denver. You are all invited to attend the society's business meetings. Please **send me agenda items** you would like to have discussed (cderksen@marine.stanford.edu) or phone me (650 725 2534) to discuss ideas of what the society should be working on. All committee chairs, new officers, and representatives are asked to attend the Executive Board Meeting, which will be held on Sunday, October 24, currently listed for the Hyatt Far East Room. The annual business meeting is scheduled for

Tuesday, October 26, from 2:00 - 4:30 in the Marriott. Plan to bring this newsletter (with its program schedule) and the October newsletter (with the annual reports from the committee chairs, representatives, and officers.)

Lois and her group have planned an informative set of meetings. She has scheduled an impressive and interesting set of papers for the meeting. You'll find it all well worth your time.

Committees

Committee chairs, society officers, and representatives, your annual reports are due on September 10. Please send copies to me and to the Newsletter Editor, Mary Frances Lembo (mf.lembo@pnl.gov).

A new task group has been appointed to advise Barbara DeFelice in her new task as a part of an NSF/NASA funded project to "help develop an action plan for the design and construction of a digital library supporting Earth System education". Barbara and members of the Executive Board felt that it would be appropriate to have GIS input into this project formalized by an advisory task group. Task group members are: Nancy Blair, Barbara Haner, and Connie Manson, plus liaisons from the Education Committee: Reggie Brown, and the Web Advisory Committee: Dennis Trombatore.

Harry O. Davis has agreed to become the new GIS representative to SLA Map and Geography Division, replacing Elaine Clement, who had asked to step away.

Executive Board Activities

See the July 1999 *Geotimes* (pg. 15-16) for an excellent review of Geoscience Information, by Past President Connie Manson. The Board plans to have another conference call the latter part of August to review problems, initiatives, and activities of the society, in preparation for the annual meeting. We'll report on that call in the next newsletter.

Two publications are on their way to you: the GIS Directory and the Proceedings volume for the 1998 meeting in Toronto. After months of promising it to you, I can finally say that the papers left my hands for those of Publications Manager and the publisher some weeks ago. Many thanks to Connie Manson for her excellent technical advice and well-used elbow grease.

Charlotte Derksen
GIS President



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The GIS Newsletter is published bi-monthly in February, April, June, August, October, and December by the Geoscience Information Society. Subscription to the Newsletter is \$40 per year and is included in the Society's annual membership dues. All correspondence regarding dues, membership status, and address changes should be directed to the GIS Secretary.

GIS members are encouraged to contribute materials for publication. Due to current vacancies, all materials—research articles, technical reports, information reports, officer and committee reports, publication notices, job announcements, and other news items—should be sent to the Newsletter editor until further notice.

Material for the October 1999 issue of the GIS Newsletter should be received no later than 24 September 1999. If possible, please send materials by e-mail or on IBM-compatible disc (Word'97 or ASCII format).

VICE PRESIDENT'S COLUMN:

According to Charlotte Derksen, who had the honor of this role last year, what you are about to read may be fiction. For six months, I have worried about the scheduling problems of the GIS Annual meeting with Charlotte always reminding me that nothing is really set until the conference is finished.

So, with that warning, you will find later in this issue, the first draft of our Denver schedule, and some brief words about papers to be presented. As of this writing, we have 14 speakers for the Tuesday Topical and Informational sessions, and 5 poster presentations on Monday. Their topics range from digital mapping, information literacy, preservation, archives, geoscience education, databases, special collections -- so what else is new?

From Sunday to Thursday you will be rewarded with great new ideas, projects, library designs, collections of the past and the future. Isn't it wonderful to be in a profession where things change daily! Who would have thought five years ago we would be talking e-journals, clickable citations, hot-linked text to cartographic images.

As usual this time is also filled with GIS committee programs, business meeting, and luncheon. (Don't forget to order your luncheon ticket with your registration.) I have tried to build in some free time (but very little) to spend at the exhibits, other sessions, and enjoying Denver. All to be joyously concluded with a trip to Boulder and the University of Colorado campus. I look forward to seeing you in Denver.

Lois Heiser,
GIS Vice President

NEWS FROM THE USGS LIBRARIES

The vacant position for Chief Librarian of the USGS Library System is soon to be advertised. The announcement, basic description of the job, and instructions for applying will be advertised on the government web page: <http://www.usajobs.opm.gov>. This jobline can also be accessed by going to the USGS home page: <http://www.usgs.com> and selecting "Working with the USGS" under the topic heading ABOUT USGS. On the next page, select "USA Jobs - Federal Government Job Search" under the heading WORKING WITH USGS. Government job applications can now be made electronically. At this moment, we are unable to give the exact date that the announcement will appear, but keep checking periodically or look for an announcement on Geonet-L. It is planned that Nancy Blair will continue be Acting Chief Librarian for the next few weeks, but will spend part of that time in Menlo Park, California, after already spending six months away from home.

The USGS library in Reston is also advertising for a GS-12 level Serials Cataloger. This job announcement is already posted on USA Jobs.

The Reston library will host a joint meeting of all USGS libraries in September. Besides the 4 libraries,

Reston, Denver, Menlo Park, and Flagstaff, which make up the Library System, there are local libraries in many field offices. The meeting will be used to discuss ways to cooperate and to serve USGS researchers more effectively.

Nancy L. Blair, Acting Head Librarian
U.S. Geological Survey Library
Phone: 703-648-4305 Fax: 703-648-6373
email: nblair@usgs.gov

GSA SELECTS SARA FOLAND AS NEW EXECUTIVE DIRECTOR/CEO

Sara S. Foland, CEO and president of Farallon Energy Group Ltd., Denver, has been named executive director/chief executive officer of the Geological Society of America. Her appointment is effective June 30, 1999. She succeeds Donald M. Davidson, Jr., executive director of GSA since 1994, who will retire at the end of June.

Gail Ashley, president of GSA and professor of geology at Rutgers University, is enthusiastic about Foland's role and contribution to GSA's future. "Sara is joining us at a time of growth and development in new directions," said Ashley. "Her leadership experience in business and on boards of not-for-profit organizations will serve GSA well."

When asked about her goals for the organization, Foland said, "GSA is all about science, stewardship and service. We have a long-standing tradition of academic excellence that will continue. At the same time, we're expanding our commitment to geoscience in service of society. We see ourselves as stewards of earth-science knowledge and of Earth itself."

At Farallon Energy Group, Foland built an organization and investment portfolio for acquiring gas-producing properties throughout the United States. Prior to joining Farallon, she held leadership and geotechnical positions at Amoco Production Company in Denver.

Foland earned Bachelor of Science degrees in geology and chemistry and an Executive MBA from Indiana University. She holds an M.S. in geology from the University of Montana, and will complete a Ph.D. in tectonics at the University of California-Santa Cruz in the next year.

Foland has been a member of GSA since 1983. She is also a member of the American Association of Petroleum Geologists, the American Geophysical Union, the Society of Exploration Geophysicists, the Rocky Mountain Association of Geologists, Sigma Xi, and the American Association of University Women.

The Geological Society of America, founded in 1888, is a 16,000-member scientific society headquartered in Boulder, Colorado. Through its meetings, publications, and programs, GSA supports integrated science, encouraging cooperative research among earth, life, planetary, and social scientists. The Society also fosters public dialogue on geoscience issues, and supports all levels of earth-science education.

**** FIRST DRAFT****

GIS 1999 - Denver

Geoscience Information Society - Annual meeting - Preliminary Schedule

SUNDAY, October 24

9:00 - 12:00 GIS Executive Board Meeting: Charlotte Derksen, President
Hyatt Far East Room

1:30 - 3:30 GIS Committee meetings
Hyatt Parisienne Room

3:30 - 5:30 GIS Preservation Meeting: Linda Musser/Lisa Wishard, Chairs
Hyatt Florentine Room

MONDAY, October 25

8:00 - Noon GIS Poster Session
Convention Center Poster Hall

10:00 - Noon GIS Collection Development Issues: Steve Hiller, Chair
Hyatt Moulon Rouge Room

Noon - 3:00 FREE TIME

3:00 - 5:00 GeoRef Discussion Group: Nancy Blair, Chair
Hyatt Parisienne Room

Evening GIS Reception
Marriott Denver V

TUESDAY, October 26

8:00 - 9:45 Communication Divides (Topical Session), Lois Heiser
Convention Center Room A111

BREAK

10:00 - 11:45 Geoscience Information I, Lois Heiser
Convention Center Room A111

Noon- GIS Luncheon
Hyatt Florentine Room

2:00 - 4:30 GIS Business Meeting, Charlotte Derksen, President
Marriott Colorado G-H

WEDNESDAY, October 27

8:30 - 11:30 Digital Forum, Adonna Fleming, Chair
Marriott Suite IV

1:30 - 3:30 GIS Professional Issues
Hyatt Florentine Room

3:30 - FREE TIME

THURSDAY, October 28

Field Trip to Boulder, Suzanne Larson

Geoscience Information Society Fieldtrip
Thursday, October 28th, 1999
Leave Denver 8:30 AM
Return to Denver 2:00 PM (approximate)

EXPLORING THE CU-BOULDER CAMPUS AND AN ARMCHAIR GEOLOGIC FIELDTRIP OF BOULDER

Overview:

Guided walking tour of the architecture of the University of Colorado, Boulder campus. Most buildings are built of natural stone and the campus has been named one of the five most beautiful campuses in the United States. Tour the new Benson Earth Sciences Building, which has many examples of "geology" as art. Tour the new Jerry Crail Johnson Earth Science and Map Library.

Box lunch in the third floor conference room of the Benson Building which commands an impressive 180 degree view of Boulder from the Flatirons to the plains. There we will take an armchair field trip of the geology of the Boulder area.

Those having their own cars and needing to get to the airport can leave directly from Boulder. Plan on an hour actual travel time to the airport.

Cost: \$20.00

Questions? Contact:

Suzanne T. Larsen
Jerry Crail Johnson Earth Sciences Library
University of Colorado
Campus Box 184
Boulder, CO 80309
Suzanne.Larsen@colorado.edu
303-492-4611

(Detach lower half and return by **SEPTEMBER 1, 1999** to the address above)

I will attend the GIS Fieldtrip on Thursday, October 28, 1999

Name: _____

Mailing Address: _____

E-mail Address: _____

Box lunch sandwich choices: (Circle one)

Turkey Ham Roast Beef Vegetarian

I need transportation to and from Boulder _____ (Transportation will be provided)

(OPTIONAL, in case someone needs a ride)

I will be driving both ways and can take _____ others.

I will be driving to Boulder and going straight to the airport _____ and am willing to take _____ others.

Cost: \$20.00, payable to Suzanne Larsen

GIS DATABASE FORUM

"Issues Concerning Electronic Journals and Books: Viewpoints from the Researcher, Publisher and Librarian", is the theme of this year's GIS Database Forum. Come join the Forum on Wednesday, October 27, 1999, 8:30 a.m. to 11:00a.m. in Denver.

Each year, the Forum provides a venue where scientists, information specialists, and publishers gather and discuss issues concerning electronic resources and view new applications in electronic data for the Earth Sciences.

This year, a group of panelists composed of publishers, editors, scientists and librarians will address the issues facing electronic journals and books. In addition, two vendors of electronic journals and books will demonstrate their products and participate in the panel discussion.

The Forum is open to all conference registrants, so mark your calendars, contact your colleagues, and plan to attend!

For more information contact:

Adonna Fleming
Digital Database Committee Chair
Michener Library
University of Northern Colorado
Greeley CO, 80639
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acflemi@bentley.unco.edu.

MEMBER NEWS - August 1999

Compiled by Shaun Hardy
hardy@dtm.ciw.edu

We are pleased to welcome the French Research Institute for the Exploitation of the Sea (IFREMER) to our institutional membership, as well as three new personal members this month. The 1999 Membership Directory, listing members' contact information as of June 1, will be rolling off the presses shortly. Watch for your copy in the mail in the next few weeks. Please remember to check your entry and notify me of any changes.

New Members

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fax: 33 2 98 22 45 86
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In Memoriam

Patricia Ann Coty, manager of information services at the Multidisciplinary Center for Earthquake Engineering Research at SUNY/Buffalo, passed away on April 3, 1999 after a long illness. Pat was a member of GIS since 1991 and was the author of many articles on earthquake prediction, library management, and media studies. A memorial appears on page 9 of the Spring 1999 *MCEER Bulletin*, vol. 13, no. 2.

AGIA Newsletter Exchange:

An exchange of newsletters has been instituted between GIS and the Australian Geoscience Information Association (AGIA). According to AGIA President Brian Knyn, the Association is currently involved in several redevelopment efforts, including moving its newsletter (*The Great Australian Byte*) into electronic format and redeveloping its Web site (www.agso.gov.au/agia/TOC.html). AGIA is also in the early stages of planning to host the GeoInfo 7 conference in Canberra in 2002. Claren Kidd, chair of our International Initiatives Committee, will serve as principal point of contact for the exchange. We look forward to Claren's keeping us posted on developments Down Under!

GEOSCIENCE INFORMATION SOCIETY MIDYEAR (6/30/99) BUDGET REPORT

	<u>Income Budgeted</u>	<u>Income Actual</u>	<u>Expenses Budgeted</u>	<u>Expenses Actual</u>
DUES				
Institutional	1,900	1,725		
Personal	6,000	6,000		
Sustaining	400	400		
Retired	200	180		
Student	60	60		
Named Sponsorship	160	0		
Pooled Sponsorship	280	265		
Susbtotal	\$9,000	\$8,630		
PUBLICATIONS				
Publications Manager			750	236
Directory of Geoscience Libraries	900	180		
Index	15	0		
Mailing Labels	400	0		
Membership Directory			1,400	
Newsletter: Printing			2,800	2,106
Newsletter: Mailing			1,400	824
Newsletter: Subscriptions	600	660		
Newsletter: Back Issues		0		
Proceedings, v.29 (1998)	1,500	0	2,500	
Proceedings, v.28 (1997)	900	360		
Proceedings, v.27 (1996)	40	90		
Proceedings, v.26 (1995)	20	180		
Proceedings, prior volumes	80	45		
GEOINFO V Proceedings	45	135		
GEOINFO VI Proceedings	1,500	0	2,500	2,220
Reprints				
Royalties				
Subtotal	\$6,000	\$1,650	\$11,350	\$5,386
AGI Society Dues			300	143
GAP Contribution			225	
EBSCO Sample Issue			200	
GIFTS (Unrestricted)	400	320		
BANK Charges			25	
INTEREST	800	642		
SOUVENIRS	100	24		
REFUNDS		1,510		
AGI Anniversary Ad				600
Subtotal	\$1,300	\$2,496	\$750	\$743
EXECUTIVE BOARD				
President:			150	
Vice-President			100	
Past President			25	
Secretary			425	90
Treasurer			100	
Teleconferences			200	170
Subtotal			\$1,000	\$260

MEETINGS				
1999 Meeting			750	
1999 Meeting: Exhibits			1,000	
1999 Meeting: Field Trip	800		800	
1999 Meeting: Contributions				
1998 Meeting			3,000	1,132
1998 Meeting: Exhibits			100	771
SLA 1999				350
Subtotal	<u>\$800</u>	<u>\$0</u>	<u>\$5,650</u>	<u>\$2,253</u>

REPRESENTATIVES/APPOINTEES

AGI Member Council Rep			25	
AGI Gov't Affairs Program Rep				
CUAC (two reps at \$200 each)			400	
Publicity Manager			50	
Auditor			25	
Publications Manager (see PUBLICATIONS section)				
Subtotal			<u>\$500</u>	<u>\$0</u>

COMMITTEES

Ad Hoc Committee on the Future of the Union List of Field Trip Guidebooks				
Archives			50	
Best Guidebook			50	
Best Paper			50	
Best Reference Work			50	
Collection Development				
Digital Data				
Educational Initiatives			25	
GeoRef Users			25	
GIS Website Advisory Board			25	
Guidebook Standards				
International Initiatives			50	
Membership			200	
Membership Brochure			200	
Nominating			200	
Preservation			250	
Subtotal			<u>\$1,175</u>	<u>\$0</u>

GRAND TOTAL	<u>17,100</u>	<u>12,776</u>	<u>20,425</u>	<u>8,642</u>
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Opening checking balances	Midyear checking balances
First Union Bank \$27,243.77	First Union Bank \$ 35,413.74
Bank of America \$ 4,588.30	

Opening savings balances	Midyear savings balances
Ansari Savings \$ 146.14	Ansari Savings \$ 3,313.73
Ansari CD \$ 3,118.35	
Bristol Fund \$ 803.65	Bristol Fund \$ 809.06

Grand total, checking & savings \$ 39,536.53

**GIS REPRESENTATIVE TO THE SPECIAL
LIBRARIES ASSOCIATION GEOGRAPHY AND
MAP DIVISION REPORT.**

The Special Libraries Association meeting in Minneapolis, June 5-10, 1999, featured a variety of good programs, useful exhibits, and stimulating contacts. The Geography and Map Division had an active, rewarding program featuring presentations on map preservation, collection development, intranet and internet services, and current government mapping activities.

John Freund of the University of Florida set out a checklist of do's and don'ts in map preservation and he and Helen Jane Armstrong (also of the University of Florida) indicated how such practice has been applied to the Holy Land Map Collection at their university. Dr. Armstrong provided additional information on the history and progress of the Holy Land Map Project, including a slide presentation.

Rene Stein of the National Security Agency examined the difficulties she has faced in trying to serve maps on a demand basis via an intranet system, while Angela Lee of ESRI discussed methods of serving maps via the Internet. Representatives of three government agencies discussed the current and future mapping efforts of the U. S. Geological Survey (presented by Beth Duff), the U. S. Census Bureau (Tim Trainor), and NIMA (Jim Lusby).

Visits were made to Hudson Map Company and East View Cartographic, Minneapolis-based map publishers and distributors. East View is a significant importer of Russian and East European material, including material of interest to the geoscience community. There was also a visit to the Minneapolis Traffic Management Center to see a demonstration of real-time interactive traffic surveillance and response. Another highlight of the conference for G & MD attendees was a gracious reception at the Borchert Map Library at the University of Minnesota.

Next year's annual conference will be in Philadelphia. For more information about the Geography and Map Division and its activities, contact Bruce Obenhaus, Chair, at Virginia Tech (Obenhaus@vt.edu).

Submitted by: Harry O. Davis
GIS Representative to SLA G & MD,
hdavis@lib.siu.edu

**REPRESENTATIVE REPORT ON THE
PROCEEDINGS OF THE MAP AND GEOGRAPHY
ROUND TABLE (MAGERT) American Library
Association Annual Conference In New Orleans, June
26-29, 1999.**

• Officer's Reports

David Allen is Chair of MAGERT and Joe Winkler is Chair-Elect.

By the end of 1999, ALA will have a new automated system to improve its web site functions. Specified round table mailing lists will be possible, but for now, request rosters from ALA. There is interest in putting round table web sites on the ALA server, since they are now dispersed in parts on many sites around the U.S.

◆ Committee Reports

Cataloging and Classification -

Library of Congress will run a pilot test of its classification web interface for 2-3 months in early 2000. To participate in this pilot of the G schedule, contact Cheryl Cook (ccoo@loc.gov).

Constitution and Bylaws -

The Education Committee will lessen its work in development of library school curriculum and increase continuing education and outreach.

Education --

A brainstorming session on committee purpose was held, leading to the above alteration of charge in the constitution. MAGERT now and in the future offers programs, expert training, online tutorials, and workshops in map librarianship, from cataloging to GIS, through its web page, publications, and events. Mentoring for new map librarians is lacking. MAPS-L continues to be a valued listserv by the general membership.

GeoTech --

Plans to sponsor a GIS data acquisition program at ALA Annual Conference in Chicago (July 2000). Free web resources, foreign data sources, data evaluation and conversion, and cooperative acquisition are potential topics.

Program --

Ideas for ALA Chicago focused on cataloging and bibliographic control, with programs for both beginners and experts. There also may be a field trip in the Chicago area and a contributed papers session.

Publications --

Jeff Kosokoff will take over web maintenance and will decide whether to place it on his local site or put it on the ALA server. The newsletter *base line* continues to flourish, but the future of the MAGERT journal *Meridian* is uncertain. Donna Koeppe will remain as Chair until another can be found.

◆ Task Forces and Discussion Groups

Research Libraries Collection Management --

Revision of *Union List of Foreign Topo Maps* was discussed. Posting it on the web along with collection development policies was considered.

Federal Spatial Data --

Minutes of the Cartographic Users Advisory Council (CUAC) meeting May 6-7 will appear in *base line*. Rea Mueller of USGS spoke on Landsat 7, dating in USGS State Map Lists, and the new phone number 888-ASK-USGS. Putting FGDC metadata in MARC format is in process. A GPO survey on map selection, links from Microsoft Terraserver to DRGs, and New York state DOQs on the web are upcoming.

◆ Liaison Reports

Anglo-American Cataloging Committee for Cartographic Materials --

Mary Larsgaard reported on the second edition of *Cartographic Materials: a Manual of Interpretation for AACR2*, in progress. More coverage of cataloging of remote sensing images, digital cartography, and early cartographic items will be in the revised work.

Cartographic Users Advisory Council --

Transfer procedures of domestic aeronautical charting from NOAA to DOT are not yet complete. GPO is expected to provide examples of print-on-demand nautical charts to depository members.

Government Documents Rounds Table (GODORT) --

Program at ALA Annual was "To Merge or Not to Merge -- What Are the Questions?: Integrating Documents Units into Reference or Technical Services." Programs for next ALA Annual will be on international statistics and on urban GIS.

Library of Congress Geography and Map Division --

Chief of G&M is vacant; interviews were planned for June 1999. Last September, the five member

nations of the Anglo-American Cataloguing Committee for Cartographic Materials met to revise the aforementioned *Cartographic Materials*. Voyager, the new integrated system at G&M, will go online in August 1999.

National Digital Library for Cartographic Materials --

Its American Memory web site now exceeds 2200 maps. New features include Places in the News (maps for news events) and Contemporary Maps (update to boundaries and place names).

Submitted by:

Thomas R. Zogg

MAGERT Representative

DIGITAL LIBRARY FOR EARTH SYSTEM EDUCATION

Broad community input is being sought for a project to develop a Digital Library for Earth System Education, a collaborative project that would serve the needs of earth science educators at all levels to locate useful and usable teaching and learning resources. Barbara DeFelice was invited to attend a community workshop on the project titled "Portal to the Future: A Digital Library for Earth System Education", August 9-11, and a report will appear in the next GIS newsletter. This workshop is part of the planning for an NSF proposal called "Collaborative Research for a Geoscience Education Digital Library". The goal is to establish a Vision Statement for the project and an action plan for creating this library, including guidelines for governance, for building the library, for contributing to it and for maintaining it.

Key aspects of the current, draft, vision for the library are these points taken from the Draft Vision statement:

The library should provide:

1. information and data that support learning about the Earth system, and
2. access to materials and methods that support highest quality instruction in Earth system science.

These materials should include the full range of instructional tools, for example, visualizations, modeling, simulations, directed exercises, skill development, curricula, authentic data sets, assessment tools and research on learning. The library holdings will largely be the URLs, indexes, and metadata needed to convert existing materials into an organized and useful library.

- ◆ Current interfaces are not effective for locating educational materials about the earth system, although much potentially useful data and information is available.
- ◆ Classification of existing material and of new material as it becomes available is essential so users can locate appropriate information.
- ◆ An Editorial function is essential to ensure the delivery of high quality educational materials.
- ◆ Delivery of individualized Earth science education materials should be possible by providing material designed for different cognitive levels and packaged in different ways to users.
- ◆ The library should facilitate the development of high quality educational material.
- ◆ The library should facilitate collaboration and creation of scientific communities.

This Web site describes the workshop and has links to other aspects of the project:

http://geo_digital_library.ou.edu/

Please send input on the planning for this project, which should be of interest to geoscience information specialists and also will benefit from their expertise, to:

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CREATING A WEB-BASED, SEARCHABLE BIBLIOGRAPHY

Three bibliographies of North Dakota geology have been combined into a searchable and browsable product available on the World Wide Web (<http://dp3.lib.ndsu.nodak.edu/ndgs/>). The original print bibliographies were published by the North Dakota Geological Survey (Scott, 1972; Scott, 1981; Greenwood et al, 1996), and together they cover the known North Dakota geological literature published between 1805 and 1993. Entries in the first two bibliographies contain annotations. All three bibliographies are indexed. Only the third bibliography was available in digital format.

Staff began retyping the two print bibliographies in MS Word. Soon after, the Libraries purchased a digital scanner and software. The remaining pages were digitally scanned using a Hewlett Packard scanner and

OmniPage Pro optical character recognition software, and saved as Word documents. There were many errors in the resulting scanned text. It is possible that different font sizes within the originals contributed to scanning errors. Editing of the scanned pages was nearly as tedious and time consuming as retyping the documents. The Microsoft Word documents were saved as text, and concatenated into a single text file using Programmer's File Editor.

Each record in the text file was edited to occupy one line. The fields were delimited using asterisks. Asterisks were used because there were many occurrences of commas, semicolons, etc. that would have made it difficult to delimit into fields, or parse, in any other way. Parsing was rather time-consuming. Since italics were removed by converting to a text file, some errors were made in parsing. In retrospect, it would have been better to parse the records before saving as a text file. Punctuation between fields was removed, partly for cosmetic reasons, since the database would be converted to a table. In retrospect, it would have been better to leave the punctuation intact, since it cannot easily be put back in for the output in bibliographic form.

The alphabetical additions to publication dates (e.g. Smith, 1986a; Smith, 1986b) were left intact to aid in hand cutting and pasting index terms into the records at a later date. The alphabetical additions can be removed after index terms have been added to the online bibliography.

Initially, the resulting text file was converted to an Access file so that it would be in table format. A problem was encountered because many of the fields were well over the 256-character limit for individual database fields. Therefore, the data was imported into a relational database called MySQL, which allows large data fields called "blobs". Running under Linux, MySQL is very flexible and powerful.

Before creating the search engine, various online bibliographies and search engines were examined for desirable features. We wanted the bibliography to be both searchable and browsable, and we wanted an option to allow a printout in bibliographic form. We wanted both simple and advanced search capabilities, including Boolean searching. We also wanted the ability to easily edit and add citations. A future publication will discuss the search engine created in-house by library technical staff. The bibliography was installed on a Libraries server and made available via the World Wide Web (<http://dp3.lib.ndsu.nodak.edu/ndgs/>).

The bibliography is currently being updated to include literature published since 1993, and to include some citations missed by earlier bibliographies. The update should be completed by early summer 1999. The last print bibliography (Greenwood et al, 1996) did not contain annotations. This limits retrieval of citations from that volume, and is a decided weakness of the online bibliography. This problem is being

resolved by cutting the index terms from the index, and pasting them into the individual records in the online database. This is very time consuming, however no way has been discovered to automate the process. Hopefully this part of the project will be completed by the end of summer 1999. We hope to update the bibliography at least once a year. In addition, we hope to add two bibliographies of North Dakota water resources authored by Mary Woods Scott.

References

Greenwood, L., Heck, T.J., Biek, R.F., and Bluemle, J.P., 1996, Bibliography of the geology of North Dakota 1980-1993: North Dakota Geological Survey Miscellaneous Series No. 83, 370 p.

Scott, M.W., 1972, Annotated bibliography of the geology of North Dakota 1806-1959: North Dakota Geological Survey Miscellaneous Series No. 49, 132 p.

Scott, M.W., 1981, Annotated bibliography of the geology of North Dakota 1960-1979: North Dakota Geological Survey Miscellaneous Series No.60, 287 p.

Lura Joseph
Physical Sciences Librarian
North Dakota State University

ITEMS CONSERVED IN 1998 WITH FUNDING FROM THE LOGAN LEGACY FUND

The following materials are part of the collections of the Natural Resources Canada, Geological Survey of Canada, Earth Sciences Information Centre, Book and Map Archives.

◆ Barrow, John (1764-1848)

A chronological history of voyages into the arctic regions; undertaken chiefly for the purpose of discovering a north-east, north-west, or polar passage between the Atlantic and Pacific: from the earliest periods of Scandinavian navigation, to the departure of the recent expeditions under the orders of Captains Ross and Buchanan.

1st edition.

London : John Murray, 1818.

Format: original

◆ Dana, James D. (1813-1895)

Manual of mineralogy treating of the principles of the science with special reference to American geological history, for the use of colleges, academies and schools of science.

Philadelphia : Theodore Blis, 1863.

Format: original

◆ Drage, Theodore Swaine

An account of a voyage of discovery of a northwest passage by Hudson's Straits, to the western and southern ocean of America. Performed in the years 1746 and 1747, in the ship California, Capt. Francis Smith, Commander.

1st edition.

London : Jolliffe, 1748-1749

2 volumes.

Format: original

◆ Dufrenoy, A. (Armand), 1792-1857

Traité de mineralogie, ou description abrégé et methodique des mineraux.

2nd. Edition

Paris : V. Almont, 1856.

Format: original

◆ Forster, George (1754-1794)

A voyage around the world in His Britannic Majesty's Sloop, Resolution, commanded by Capt. James Cook, during the years 1772-1775.

London : B. White, 1777.

2 volumes.

Format: original

◆ Geological Survey of Pennsylvania.

The geology of Pennsylvania: a government survey. Edinburgh ; London : Philadelphia : W. Blackwood and sons ; J.B. Lippincott & co., 1858

2 volumes in 3.

Format: original

◆ Jukes, J. Beete (Joseph Beete), 1811-1869

Excursions in and about Newfoundland during the years 1839 and 1840.

London : John Murray, 1842

2 volumes.

Format: original

◆ Kirwan, Richard, 1733-1812

Elements of mineralogy.

London: P. Elmsly, [1794]

2 volumes.

Format: original

◆ Phillips, William, 1775-1828

An elementary introduction to the knowledge of mineralogy comprising some account of the characters

and elements of minerals; explanations of terms in common use; descriptions of minerals, with accounts of the places and circumstances in which they are found; and especially the localities of British minerals.

3rd edition

London : printed and sold by W. Phillips, 1823.

Format: original

- ◆ Taylor, Richard C. (Richard Cowling), 1789-1851

On the geology of east Norfolk : with remarks upon the hypothesis of Mr. J.W. Robberds, respecting the former level of the German Ocean.

London : Printed for John Cochran, in the Strand, 1827.

Format: original

Submitted by:

Pauline Kamel, Earth Sciences Information Centre

Natural Resources Canada

LITERATURE REVIEW

by Miriam Sheaves

A summary article in *Bulletin of the Association for Information Science* on "The State of the Dublin Core Metadata Initiative: April 99" provides information on the fourth year of this initiative in a nutshell version. 25(5) Jun/July 1999, p 18-22.

In her article "Convergence and Resurgence: The Integration of Academic Libraries and Computing Centres", Barbara Marshalsay includes a literature review on the topic and discusses various models, as well as issues and outcomes of convergence. *Canadian Journal of Information & Library Science*, 23(4) Dec 1998, p.28-61.

The *IFLA Journal*, 25(3) 1999, p.168-175 has an article, "Review of the management Literature 1998" by Patricia Layzell Ward. Included are interesting papers from the general literature of management. The papers were selected from 300 references from a commercial database search. Those included were articles that reflect issues of importance to library managers and/or indicate changing approaches in the general field of management.

Index on Censorship, 28(3) May/June 1999, includes a section of articles that examine censorship in science, p.44-93.

A special issue of *Information Processing & Management*, 35(3) May 1999 is devoted to "Progress Toward Digital Libraries". Among several interesting articles is one on support for scholarly research, and an article by Ann Peterson Bishop which "explores the disaggregation and reaggregation of science and technical journal articles by students and faculty", p.255-279.

An article in *Journal of the American Society for Information Science*, 50(10) 1999, "Information

Seeking Behavior of Scientists in the Electronic Information Age: Astronomers, Chemists, Mathematicians, and Physicists", by Cecelia M. Brown of the University of Oklahoma describes results of an electronically distributed questionnaire. The "data suggest that a primary goal of science libraries is to obtain access to as many appropriate electronic bibliographic finding aids and databases as possible". The majority of faculty still preferred access in print rather than electronic form.

This same issue also includes an article comparing the precision of five major WWW search engines; an article discussing the performance of retrieval engines and systems; and an article "Scholarly Communication and the Continuum of Electronic Publishing", by Rob Kling and Geoffrey McKim, p.890-906, discussing various communication forms according to three criteria of effective publication: publicity, trustworthiness and accessibility.

In the April issue of *Library Resources & Technical Services*, 43(2) 1999, p.67-77, Janice Kreider discusses a study at the University of British Columbia comparing *Journal Citation Reports* with local use data in 20 fields in the sciences and social sciences. Take a look at "The Correlation of Local Citation Data With Citation Data from *Journal Citation Reports*", which reports a strong correlation.

In "Reference Service for Maps: Access and the Catalog Record", Elka Tenner and Katherine H. Weimer discuss the need for reference librarians and catalogers to collaborate in order to provide the most appropriate access points for users to locate maps. See *Reference & User Services Quarterly*, 38(2) 1998, p.181-186.

NEW GIS PUBLICATION ANNOUNCEMENT:

"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, held September 10 through 14, 1998, Washington, D.C."

Connie J. Manson, editor

Geoscience Information Society 1999

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BIGPI (IBERIAN PENINSULA GEOLOGICAL BIBLIOGRAPHY)

The Library of the Institute of Earth Sciences "Jaime Almera" (CSIC) at Barcelona (Spain) announce its BIGPI project, a bibliography related with geological aspects about the Iberian Peninsula (<http://161.116.163.15>).

It is a humble project that considers "geological aspects" and the "Iberian Peninsula" in broader sense:

Iberian Peninsula includes: Spain, Andorra, French Pyrenees, Balearic and Canary Islands, Ceuta and Melilla, Portugal, Madeira and Azores Islands, Western Mediterranean, Bay of Biscay and Iberian Atlantic coast.

Geological aspects includes: Geochemistry, Geophysics, Geomorphology, Mineral deposits, Petrology, Hydrology, Oceanography, Paleontology, Environment, Pollution, etc., etc., etc.

Now it has more than 5.700 bibliographic references in several languages as Spanish, Catalan, English, German, French, Italian and Portuguese from journal articles, books, book chapters, congresses, thesis, abstracts.

You can search by author, title, source and four different types of descriptors (subject descriptors, geological periods, geographical descriptors and code descriptors). These descriptors are in Spanish and English.

You can consult BIGPI at <http://161.116.163.15>

I wait your comments, especially to correct our English page. It is not an exhaustive bibliography, only from the publications we receive at our library.

Miquel Angel Plaza-Navas

Biblioteca

Instituto de Ciencias de la Tierra

"Jaime Almera"-CSIC

e-mail: bib_almera@ija.csic.es

INTERNET NEWS

Internet Geology

This is to announce the availability of a newsletter entitled *INTERNET GEOLOGY*, which will call attention to various aspects of the petroleum geology of the Newly Independent States of the Former Soviet Union. It will consist of a series of short essays once every week or ten days of one page length on such subjects as "Yurubchen - giant oil field in Precambrian rocks of East Siberia", "Structure of sub-salt sedimentary section in deep part of North Caspian depression", "Fault-associated structural traps of Volga-Ural oil-gas province", "Jurassic plays of Uzbekistan", and "Unexplored basins of the Russian Far East".

This newsletter will be distributed by e-mail, and then later posted on my Website. There is no charge for this material; it is presented in the interest of our science of petroleum geology.

My e-mail address is jamesclarke@erols.com.

My telephone number is: (703) 759-4487

My FAX number is: (703) 759 3754.

Please post and circulate this announcement. Any one interested is invited to send me their e-mail address either by e-mail or FAX, and their address will be added to the mailing list.

Sincerely,
James Clarke

JOB ANNOUNCEMENTS

Two Vacancies

ASSISTANT LIBRARIAN FOR CIVIL AND ENVIRONMENTAL ENGINEERING

ASSISTANT LIBRARIAN FOR MECHANICAL ENGINEERING (Librarian I or II)

Join the team of professionals developing services and collections for the nation's number one school of engineering. The MIT Barker Engineering Library is seeking energetic and creative librarians who can serve as liaisons to either the Department of Civil and Environmental Engineering or the Department of Mechanical Engineering. As a subject librarian, a significant component of these positions is in building and managing electronic and print collections. These positions also include the provision of reference and instructional services to faculty, students, and researchers in all departments in the School of Engineering as well as members of the MIT community working in related interdisciplinary fields. Barker librarians are responsible for assessing the information needs of primary users, developing services to meet those needs, and delivering and evaluating those services.

The Barker Engineering Library has one of the finest and oldest engineering collections in the country, divided between two locations - Barker and its branch, the Aeronautics/Astronautics Library. Together these libraries serve MIT's largest school, the School of Engineering, which has eight departments. In addition, Barker supports a number of research centers and laboratories as well as the Division of Bioengineering and Environmental Health. The Barker Library's collections number 380,000 volumes and there are 16 full and part-time staff members.

QUALIFICATIONS: Required - An MLS/MLIS from an ALA-accredited library school. (Three years professional experience required for appointment at Librarian II level.) Working knowledge of new

technologies. Excellent interpersonal and communication skills; ability to collaborate and work as a member of a team; initiative, flexibility, and the ability to work creatively in a rapidly changing environment. Preferred - An undergraduate or graduate degree in engineering or science; reference, instruction, and/or collection development experience in an academic or research library.

HIRING SALARY: \$32,000 minimum (Librarian I); \$35,000 minimum (Librarian II). Actual salary will depend on experience.

The MIT Libraries include five major subject libraries (architecture and planning; engineering; humanities; science; social sciences and management) and several branch libraries in specialized subject areas. The Libraries contain more than 2.3 million printed volumes, over 17,000 serial subscriptions, and extensive collections of microforms, maps, slides, photographs, sound recordings, printed music, manuscripts, motion pictures, and videotapes. The Libraries' automated system is Geac Advance. The public catalog, Barton, is available within the Libraries and on the campus network. The Libraries' webpage (<http://libraries.mit.edu/>) presents information about library services, access to numerous databases, and links to pertinent Internet resources. MIT Libraries maintain membership in the Association of Research Libraries, the Boston Library Consortium, and OCLC through NELINET.

MIT offers excellent benefits, including tuition assistance and a relocation allowance. The MIT Libraries affords a flexible and collegial working environment and fosters professional growth of its staff with management training, travel funding for professional meetings, and a professional research grant program. MIT is a smoke-free campus.

Review of applications begins August 23, 1999. Complete applications, which consist of a cover letter, resume, and names and addresses of three current references should be sent to:

Search Committee for Assistant Librarian for
(specify position) - (SLAPAM)
The Libraries, Room 14S-216
Massachusetts Institute of Technology
77 Massachusetts Ave.
Cambridge, Massachusetts 02139-4307

Electronic resumes may be sent via the MIT Personnel Office web page at <http://web.mit.edu/personnel/www/resume.htm>. Specify job code (99-0515LE for Civil Engineering and 99-0516LE for Mechanical Engineering). Send two application packages if applying for both positions.

MIT is strongly and actively committed to diversity within its community and particularly encourages applications from qualified women and ethnic minority candidates.

Positions Available -- Reston USGS Library

The U.S. Geological Survey Library in Reston, Virginia, has two positions listed on the <http://www.usajobs.opm.gov> under "Librarian". One is for a GS-12 serials cataloger and the other for a cataloging technician. Please see the descriptions on the Web complete with instructions on applying. -

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