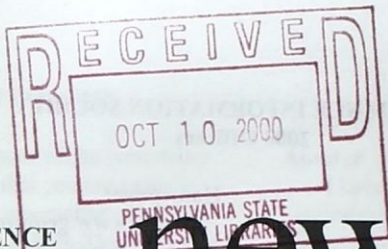




GEOSCIENCE  
INFORMATION  
SOCIETY



# newsletter

Number 185 August 2000

ISSN 0046-58301

## Contents

### Departments

President's Column .....	1
Vice President's Column.....	3
Appoint Officer Report--Auditor.....	3
Committee News.....	3
Representative Report: CUAC.....	5
Literature Reviews.....	11
Job Announcement.....	12
Announcements .....	15
Member News .....	16
GIS Publications List .....	20

### Special Features

WAML Fall Conference.....	4
Earth Science Week 2000.....	9

## PRESIDENT'S COLUMN

As I write this (July 23rd) there is still no final answer about the 2001 budget funding for the Government Printing Office and the Federal Library Depository Program. I had an informative letter from Senator Richard Lugar in which he indicated that the Senate did reinstate most of that funding. (I sent personal letters to the Indiana representatives and senators, as well as my official GIS letter to the Committee chairs.) While at the American Library Association meeting in Chicago, I chatted with a GPO staffer who thought that the funding may no longer be in jeopardy. He seemed to think that the action and campaign by the librarians and depository libraries was effective. However, according to the July 19th report from ALA's Washington Office Newslines, the two bills for Legislative Branch Appropriations are now in conference committee. No one can say for certain until they compromise, actually pass the bill and the action of the president. (Upon reading this, you may wish to check on the status of the appropriation, and if still not resolved, to send your letters to the appropriate legislators.) [www.ala.org/washoff/alawon/index.html](http://www.ala.org/washoff/alawon/index.html)

Elizabeth Wallace informs me that the 1999 Proceedings "Communication Divides: Perspectives on Supporting Information Bridges in the Geosciences" is in

Press. I wish to thank all of the speakers at the Denver Meeting for providing their written papers and illustrations. The Proceedings and the Membership Directory should be received soon.

Thanks are in order to Charlotte Derksen for writing a overview of developments in Geoscience Information for the *Geotimes* highlights issue. The article covers a number of developments in e-journals as well as preservation actions by some of our members. She did make some significant points concerning availability as well as costs of access to Geoscience Information. We must all stay alert to the variations offered (or not) by the publishers and geoscience societies.

**Reports** by GIS committee chairs, officers, and representatives are due by September 15. Please send copies to me, and to Connie Manson for the October Newsletter. I know Connie would like to have them in digital, and if it is easier for you, I will take them that way also. By having the reports published in the Newsletter, we can speed the Executive Board and annual Business meetings along. Unless Sharon has changed our "normal" scheduling, the Executive Board will meet on Sunday morning, November 12th. All GIS members are welcome to attend.

**Reminder \*\*** Though I am sure there will be other notices in this Newsletter, remember that our Field Trip to Donner Pass and Donner State Park - held in conjunction with WAML - will be on Saturday, November 11th. Sign up and make your travel plans accordingly.

The web site for the joint WAML-GIS field trip for Sat. Nov. 11, 2000 has been posted at [http://www.delamare.unr.edu/Maps/WAML/Field%20Trip/summit\\_2000.htm](http://www.delamare.unr.edu/Maps/WAML/Field%20Trip/summit_2000.htm) The full WAML meeting site is at <http://www.delamare.unr.edu/Maps/WAML/Meetng.htm> The WAML meeting agenda and the WAML-GIS field trip registration form are included of page 4 of this issue.



**GEOSCIENCE INFORMATION SOCIETY**  
**2000 Officers**

**President**

Lois Heiser  
Geology Library  
1001 E. 10th Street  
Indiana University  
Bloomington IN 47405-1405  
phone: 812/855-717; fax: 812/855-6614  
e-mail: heiser@indiana.edu

**Vice-President (President-Elect)**

Sharon Tahirkheli  
American Geological Institute  
4220 King Street  
Alexandria, VA 22302  
phone: 703/379-2480 x231; fax: 703/379-7563  
e-mail: snt@agiweb.org

**Immediate Past President**

Charlotte Derksen  
Branner Earth Science Library and Map Collection  
Mitchell Building  
Stanford University  
Stanford, California 94503  
phone: 650/725-1102; fax: 650/725-2534  
e-mail: cderksen@marine.stanford.edu

**Secretary**

Shaun J. Hardy  
Carnegie Institution of Washington  
DTM-Geophysical Laboratory  
5241 Broad Branch Road, NW  
Washington, DC 20015  
phone: 202/686-4370 x2562; fax: 202/686-2419  
e-mail: hardy@dtm.ciw.edu

**Treasurer**

April Love  
Science Library, R&I  
P.O. Box 19556  
University of California  
Irvine, CA 92623-9556  
phone: 949/824-7237; fax 949/824-3114  
e-mail: amlove@uci.edu

**Homepage:**

<http://www.geoinfo.org>

Chair: Jim O'Donnell  
Geology Library 100-23  
Caltech  
Pasadena, CA 91125  
phone: 626/395-2199; fax: 626/568-0935  
e-mail: jimodo@caltech.edu

**Listserv:** Geonet-L@listserv..indiana.edu

Editor: Carolyn J. Laffoon  
Earth & Atmospheric Sciences Library CIVL 1210  
Purdue University  
West Lafayette, IN 47907-1210  
phone: 765/494-0201; fax: 765/496-1210  
e-mail: carolyn@purdue.edu

**Newsletter Editor**

Connie J. Manson  
Washington Division of Geology & Earth Resources  
P. O. Box 47007  
Olympia, WA 98504-7007  
phone: 360/902-1472; fax: 360/902-1785  
e-mail: connie.manson@wadnr.gov

**Publications Manager**

Elizabeth Wallace  
Science & Technology Libraries  
Syracuse University Library  
Syracuse, New York 13244-2010  
phone: 315/443-2160; fax: 315/443-5549  
e-mail: eawallac@library.syr.edu

**Publicity Officer**

Carol J. La Russa  
Physical Sciences & Engineering Library  
University of California, Davis  
Davis, California 95616  
phone: 530/752-0519; fax: 530/752-4719

The GIS Newsletter is published bi-monthly in February, April, June, August, October, and December by the Geoscience Information Society. Subscription is free to GIS members. The annual non-member subscription rate is \$40 to the U.S. and Canada, and \$45 (by airmail) to other countries. 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. Material for the October 2000 issue should be received no later than September 22, 2000. If possible, please send materials by e-mail or on DOS-compatible disc.



Well, here it is ... the August issue of the Newsletter with all of the meeting information that you are eagerly awaiting so that you can make your reservations and plan your meeting schedule. SORRY, FOLKS! The Geological Society of America annual meeting is being held approximately three weeks later than usual this year, so all the usual patterns have been delayed. The technical program is scheduled for November 13-16 in Reno, Nevada.

By the time you read this, it will be too late to submit an abstract, but they will not have been reviewed. Final schedules for the technical program are due to be completed by September 1. Times and locations for all other events are tentative until the technical program is complete. The one piece of information that I can provide is the fact that most meeting events will be held either in the Reno Convention Center or in the Reno Hilton. The Reno Hilton is located about three miles from the Convention Center. Housing in Reno is tight and there is only a small list of hotels to choose from. BOOK EARLY!

Advance-copy purchase of the Annual Meeting Abstracts with Programs is available within the United States, Canada and Mexico. Prices are \$35 each for GSA members and \$38.75 for nonmembers. Price includes shipment by first-class mail. Just a reminder, your registration does not include a copy of the Abstracts with Programs volume. Call toll-free 1-888-443-4472 or visit the GSA Web site at [www.geosociety.org](http://www.geosociety.org)

Information on registration and housing can also be found either in the June issue of GSA Today or on the web at [www.geosociety.org](http://www.geosociety.org). Information on the GIS field trip can be found elsewhere in this issue of the newsletter.

#### Important dates:

Advance-copy purchase – program	October 1, 2000
Preregistration deadline	October 6, 2000
Housing deadline	October 6, 2000
GIS field trip	November 11, 2000
GIS annual meeting	November 11-15, 2000

Look for the October issue of the newsletter for all of the meeting information and abstracts for our sessions! This year it should have plenty of time to arrive before the meeting.

#### Auditor

I have reviewed the 1999 financial records of the Geoscience Information Society, as provided by Treasurer Susan Goodman. I found the records to be an accurate and well-organized representation of GIS finances.

Respectfully submitted,  
Margy Walsh, GIS Auditor

#### COMMITTEE NEWS

##### GIS Best Paper Award 2000

Papers for nomination are being accepted by the committee. If you have a paper that you would like to see nominated, please contact Janice Sorensen at the Kansas Geological Survey, email [sorensen@kgs.ukans.edu](mailto:sorensen@kgs.ukans.edu) or telephone 785/864-2098. Nominations should be received by August 14, 2000.

##### Guidebooks Standards Committee

The GIS Guidebooks Standards Committee considered the following 1998-1999 geological field trip guidebooks for the "Best Guidebook Award" to be given this November in Reno. We thought this list might be helpful for your collection development efforts.

Committee members who identified and evaluated these guidebooks were: Jan Ferrari (Texas A&M-College Station), Janice Jaguszewski (U Minnesota), Claren Kidd (U Oklahoma), Mary Krick (Illinois Geological Survey), Carol Messick (USGS-Reston), Karen Piquene (AAPG-Tulsa), David Salt (U Saskatchewan), and Thelma Thompson (U New Hampshire).

If you notice 1999 and 2000 guidebooks not included on the list, please provide bibliographic details to [ckidd@ou.edu](mailto:ckidd@ou.edu).

*(Editor's note: The list of guidebooks is given in this issue, p.17-19 .)*



**'WAML IN THE NEW MILLENNIUM'--WAML FALL CONFERENCE**

**University of Nevada, Reno November 8-11, 2000**

University Inn and Midby Byron Building, 1001/1041 N. Virginia St.

**Wednesday, November 8**

6-9 pm Early Bird gathering at Linda Newman's - 'Grill-by-Snow' [RSVP]

**Thursday, November 9**

8am- Noon WAML Executive Board meeting and no-host breakfast: University Inn, Board Room, 5th Floor, Rm 229

9am - ? Registration: Room 107, Midby Byron Bldg

9am - ? Vendor displays: Room 107, Midby Byron Bldg

10 - 11:30 GIS Metadata Introduction and Mini-workshop, "You, too, can do Metadata!" by Gary Johnson, NV

Bureau of Mines and Geology: Room 109, Midby Byron Building

11:45 -1:00 Lunch

1:15 pm Greetings and Announcements, President Deckelbaum, Linda Newman, host: Room 109

1:30 - 2:15 "Who owns Reno's streets?" by Paul Starrs, UNR Geography Dept.:

2:15 - 3:15 "Nevada--The last botanical frontier in America," Jerry Tiehm:

3:15 - 3:45 Break, Room 107 for map exchange and vendors

3:45 - 4:30 "Nautical map use," by Dick Masse, USAFNG:

4:30 - 5:15 "Basque Studies Program: The Basque in the New World," by Marc Ugalde,

6:15 - 8:30 Dinner at Louis's Basque Corner...back room [RSVP]

**Friday, November 10**

8:30 Registration, Room 107

9:00 Welcome, announcements, Room 109

9:15 - 10 Gary Hausladen, Head, Geography Dept.: Places for Dead Bodies

10 - 10:45 David Rumsey & Julie Sweetkind: The Rumsey Collection Online

10:45 - 11:15 Break and Vendor displays, Room 107

11:15 - Noon Joe Tingley, NV Bureau of Mines & Geology: The Loneliest Road

Noon - 1:30 Lunch

1:30 - 4:00 WAML Business Meeting & Sounding Board, President Deckelbaum, presiding

4:00 - 4:45 "Feast or famine: Map libraries in smaller institutions," by Janet Collins, Western Wash. University:

5 - 6:30 Reception/tour of DeLaMare Library & Keck Museum, Mackay School of Mines Bldg., UNR Quad

7 - 9:30 Banquet: Silver Peak Restaurant & Brewery, 124 Wonder St. [RSVP]

**Saturday, November 11**

9am - 4:30pm Field Trip: 'The Truckee River corridor and the Donner Experience'

**WAML/GIS Joint Field Trip, Saturday, November 11**

The **Truckee River Corridor and the Donner Experience** will be lead by Prof. Joseph Lintz, Emeritus, UNR Geological Sciences Dept. and Andrea Batie, Ranger, Donner State Park. It will include the geology of Donner Park, site of the Donner Tragedy, a stop at a museum highlighting the building of the Transcontinental railroad across the Sierra, lunch and time to wander, and will return by way of the historic town of Truckee.

Departs at 9am from the University Inn, 1001, N. Virginia Street. Modern, fully equipped motor coach. A Donner Party Box Lunch included. Bring your camera. Dress in warm layers in order not to repeat the full Donner Experience! Maximum of 40, minimum of 25. Registration of \$26.00 per person includes transportation, field trip booklet, entrance into park, lunch and snacks.

Name \_\_\_\_\_

Address \_\_\_\_\_

email \_\_\_\_\_

Attending: WAML GSA (please circle)

Phone \_\_\_\_\_

Fax \_\_\_\_\_

Box Lunch choice: Chicken or vegetarian/cheese sandwich (Circle one)

Please make check for \$26.00 to WAML and mail form to Linda Newman, DeLaMare Library /MS 262, University of Nevada, Reno, NV 89557 Questions: Linda Newman: 775/784-6945 ext. 20 fax: 775/784-6949 lnewman@unr.edu



## REPRESENTATIVE REPORT: Cartographic Users Advisory Council

The Cartographic Users Advisory Council met on May 4-5, 2000 in Silver Spring, Maryland. The meeting was hosted by NOAA. The CUAC representatives in attendance were: Janet Collins, Western Washington University (WAML), Donna Koepp, University of Kansas (GODORT), Clara McLeod, Washington University (GIS), Dan Seldin, Indiana University (NACIS), Richard Spohn, University of Cincinnati (GIS), Paul Stout, Ball State University (NACIS), Christopher J. J. Thiry, Colorado School of Mines (WAML), and Mark Thomas, Duke University (MAGERT).

The presenters were: Robin Haun-Mohamed (GPO), Vi Moorhouse (Map cataloger at the GPO), Fred Anderson and Howard Danley (NOAA), John Hebert (Chief of LC G&M), Jim Lusby (NIMA), Robert Marx and Tim Trainor (Census), Rea Mueller (USGS), Betsy Banas (USFS), and Tom Patterson (NPS). The official minutes follow:

### Government Printing Office (GPO)

Robin Haun-Mohamed of the Government Printing Office (GPO) told the Council that GPO will distribute 28.2 million items in Fiscal Year 2000. GPO distributed 382,000 maps in FY 1999. GPO is entering its fifth year of transition from paper to electronic items. The amount of fiche, paper, and CD-ROMs is down. GPO is attempting to eliminate multiple-formatted products, but these are reviewed on a case-by-case basis. The DRGs are available on-line through Microsoft Terraserver. The topos are available on-line via TopoZone ([www.topozone.com](http://www.topozone.com)).

Robin reported that in March she had met with representatives of the Bureau of the Census. They discussed the responsibility for long-term access to Census electronic products. Currently, these products are using Acrobat or Hewlett Packard Graphics Language (HPGL).

The National Wetlands fiche and new web site were discussed. The revised and improved National Wetlands Maps that had been done for GPO a couple of years ago were formatted wrong by the vender, and thus not distributed. Council indicated that if they could be made available on the web, they would not need to be photographed again. Similar versions are available on the web at: <http://wetlands.fws.gov/>

Robin asked the Council a series of questions: 1) What is the impact on libraries when mapping is online? 2) How do we use online spatial/cartographic data? 3) Do we download things, save things, archive them, or do we go back to the original source material each time? 4) Do we handle electronic map needs in the library or do we send our users someplace else? 5) Do we use the airport charts, obstruction charts, approach charts, etc.? 6) What will be the impact if the USGS Open File Reports go online only?

Council members each in turn answered as many of these questions as applied to them.

### Government Printing Office (GPO) Map Cataloging

Vi Moorehouse from the GPO Cataloging Unit made a few comments to the Council. She said that there are over 200 map libraries, of which an estimated 40% are run by professional map people. GPO is concerned about the remaining 60%. Vi expressed a desire that the map library community would provide guidance to those who are uninitiated in map cataloging.

Vi told the Council that their map cataloging backlog is "almost nil." At this point, USGS topos are being cataloged using two different dating methods. One is in the edition statement. If the edition statement is not available, the date is added at the end of the title. The Forest Service-USGS maps are being listed under I 19:81 instead of A13.28. She also indicated that USGS is very receptive to requests to place something online, such as Open File Reports.

Vi discussed a problem with encoding of GPO's new BIBCO records. BIBCO requires that the encoding level in the fixed fields be left blank (like LC). The result is that records are being displayed in OCLC as LC originated, instead of GPO. Thus, it is not possible to identify GPO/BIBCO records in the OCLC title index listings.

### National Ocean Service (NOS)

The National Ocean Service (NOS) was represented by Fred Anderson, the Deputy Director of the Office of Aeronautical Charting and Cartography, and Howard Danley, the Deputy Chief of the Navigational Services Division of the Office of Coast Survey.

Fred reported that Aeronautical Charting and Cartography (AC&C) will be moving to the Federal Aviation Administration on October 1, 2000. They will stay in their current facilities in Silver Spring, Maryland. AC&C prints and distributes NOAA and NIMA charts to the public. Aeronautical charts will remain in the Federal Depository Library Program. Libraries should contact AC&C's Distribution Office in Riverdale, Maryland for catalogs and other promotional information to give to patrons. The FAA has not made a decision about AC&C printing and distributing Nautical Charts. Fred noted that the printing of aeronautical and nautical charts fit together well. There is a 28-day cycle for aeronautical charts and the nautical charts fill in the printing gaps. The distribution computer system has been fine-tuned and AC&C can start shipping aeronautical and nautical charts directly to the depository libraries, rather than going through GPO. The libraries should be getting these products faster--before the effective date of the charts. For future digital aeronautical charts, AC&C does not want to use copyright or user fees.



They want to avoid a CRADA because that would create a monopoly and would be outside the Federal Depository Library Program.

Howard Danley reported that they don't know what will happen with printing and distribution of nautical charts when AC&C goes to the FAA. They have a Cooperative Research & Development Agreement (CRADA) for print on demand for nautical charts. Nautical charts have a life of 1-2 years. Commercial ships have to keep their charts corrected by hand from updates that are published in *Notices to Mariners*. Until 1969, the charts in the warehouse were hand corrected until shipped. Nautical charting agencies in the rest of the world still hand-correct the charts before shipping. Print-on-demand will allow more up-to-date charts to be distributed. A print-on-demand trial of forty charts of the New York Harbor area will be undertaken by a company called Vomela in St. Paul, Minnesota. There is a continual update of the digital files and the base information can be changed in two to three weeks. The print-on-demand copies would have an added value and cost more. They could be produced in custom editions with special marginal information for commercial users or recreational users. They could be printed with or without Loran. NOS wants to test the viability of these higher cost charts.

Currently, raster digital nautical charts are produced under a CRADA with Maptech. The company has a web site, [www.maptech.com](http://www.maptech.com) which has views of the charts available online. The regular CD-ROMs cost about \$200 each. They have a Professional Series CD for \$500 each. These come with an e-mail update service. Updates are received by e-mail and the charts are updated when the CD is run. The updated charts can be saved to the hard disk or a floppy disk or only the updates are saved so that the updated charts are displayed on the screen when it is called up. NOS is working to have these Professional Series CD charts certified by the Coast Guard for the carriage requirements for use in navigation for ships of more than 1600 tons.

Vector nautical charts are being developed by NOS. By the end of the year, vector charts of the 40 largest United States ports should be available. Ships should be able to navigate using the vector charts with GPS. NOS has a demo of the area near Valdez Alaska. Had these charts been available, the Exxon Valdez would have received six audio warnings before it ran aground. The NOS home page has images of the nautical charts at 100 dpi. These should be small enough so they cannot be used for navigation, but provide customers with an idea of coverage.

For now, NOS will continue with both print-on-demand and lithographic copies in parallel. When the price of the print-on-demand copies comes down, maybe the lithographic copies would be dropped. The print-on-demand copies would be copyrighted and would not be in the Federal Depository Library Program.

## Library of Congress Geography and Map Division (LC G&M)

John Hebert, the new Chief of the Geography and Map Division at the Library of Congress spoke to the Council before lunch. John worked in the Library's Hispanic Division before moving to Geography and Map. He announced several staffing changes. Betsy Mangan will be retiring in the Summer. Betsy has been with the Division for over 30 years. John hopes to hire an assistant chief and someone to take over the reins of the cataloging unit. Al Herman retired in the spring. The Division will be hiring a new Administrative Officer. Currently, the Division is in good shape as far as staffing—the push for materials in the American Memory Program has helped.

The Division continues to bring in a large number of materials through purchases, the State Department Program, and the copyright program. Recently, the Division received a gift including 6 of the known 18 maps by Lafayette's cartographer. The Division is starting to make arrangements to acquire maps from Cuba.

Last summer, LC implemented a new Integrated Library System (ILS)—Endeavor. It has been a trial at times. NIMA also installed Endeavor, so the two organizations are working out agreements to share data. While NIMA has never used the MARC format, they have cataloged each individual sheet of the various map series. Conversely, LC catalogs using MARC, but has not individually cataloged the sheets to its various series (numbering over 2,000,000 sheets). Once LC acquires the individual sheet information from NIMA, they will hire contract workers to bring the records up to LC standards.

The National Digital Library Program is entering its 5th year. The Library is reviewing the Program and deciding whether it should remain in the departments (like G & M) or consolidated into one system-wide office. The Division has completed scanning their collection of panoramic maps of the US, and continues to add these types of maps as they acquire them. They have also completely scanned two atlases including one by Ortelius. New categories include railroads maps, Civil War maps, Revolutionary War maps, and maps of the Spanish and Portuguese world from before 1600. The maps in the various categories are being derived from the cartobibliographies compiled at LC. The Civil War scanning project was begun in November 1999. The Revolutionary War maps will start soon. Spanish maps will start in the Fall. The Division entered a contract in 1998 with Sanborn to scan their maps. The project has been halted due to a dispute over copyright. LC is allowing Sanborn access to 250,000 maps that are in the public domain, but Sanborn wants to add a copyright statement to the scanned images. LC feels that anything made before 1923 is in the public domain. Also, the Division is currently exploring a cooperative project with the State of Virginia Library and West Point to scan maps of the cartographer of the Confederacy. Other proposed scanning



projects include the U.S. county atlases from the 1800's, land ownership maps, and maps of Eastern Europe from the late 1800's. Printed copies of the scanned maps are available through a company in Seattle — [www.museumarchives.com](http://www.museumarchives.com). John believes that a print out of a panoramic map will cost about \$40.

Gary Fitzpatrick has received funding to hire two people in FY 2001 and two more in FY 2002 to do GIS in the Division for Congress. Essentially, they will create GIS maps on demand for Congressional members.

The Council inquired about the LC Summer Program. John was very interested in doing it. Despite concerns about the cost of housing, he indicated that LC would be unable to provide funding toward housing. However, he encouraged everyone to write letters to him requesting information and expressing interest in the Summer Program. He indicated the Philip Lee Philips Society might be able to help.

The Division has initiated weekly talks by staff members. The topics are chosen by the speakers and the talks are intended to build bridges of understanding within the Division, and to let others know what they are doing.

#### **National Imagery and Mapping Agency (NIMA)**

Jim Lusby addressed the Council for NIMA. He works in the National/Civil Agencies Customer Operation Branch. There are Customer Operations liaison officers and technicians stationed worldwide. NIMA products meet the needs of civil, national, and law enforcement customers. Their products helped support the USGS Environmental Crisis Support efforts such as Hurricane Mitch, and the Colombian earthquake. Working with the Secret Service, NIMA has supported security efforts during the Papal visit to St. Louis, the Energy Conference in Houston, and the World Bank Meeting in Washington.

The digital products that NIMA has available are on their web site: [www.nima.mil/geospatial/products/DTED/dted.html](http://www.nima.mil/geospatial/products/DTED/dted.html)

Through agreements with other countries, NIMA will soon be distributing available topographic maps at a scale of 1:50,000, 1:1000,000, 1:250,000, and Cities at various scales of the following countries: Vietnam, Cambodia, Laos, Somalia, Tanzania, Uganda, Bolivia, Dominican Republic, Haiti, Belize, Honduras, Guatemala, El Salvador, Nicaragua, and Costa Rica. Once printed, depository libraries who have chosen to receive NIMA topographic maps will get a full set (or as many as are available) of each country.

In summary, Jim made three points: 1) There will be Digital Nautical Charts (DNCs) which are vector images. These are not yet finished. There is a replacement for Digital Chart of the World it is the Vector Map Level 0 which consist of four CD-ROMs. 2) There will be a vector map of the world at Level 1 detail but only of selective countries. 3) NIMA is moving toward providing

foundation-feature data electronically. They want to provide the data and have others do the hardcopy mapping. The data will be continuously updated. There are no concrete plans to archive the data, but they are talking about it. NIMA hopes to phase out printed products by 2010.

#### **Census Bureau**

Robert Marx, Chief of the Census Bureau's Geography Division, and Tim Trainor, Chief of the Cartographic Operations Branch spoke to CUAC about developments at the Census Bureau. They gave the Council a TIGER bookmark that had lots of useful URLs for Geography Division web sites.

They began their talk with new developments for Census 2000. The term Block Numbering Areas (BNAs) will not be used any more; just Census Tracts and Census Block Groups, although not all of these have been developed with local authorities. Formerly, there was a required minimum population of 1000 in order to constitute a Census Designated Place (CDP), but now there will be no minimum population requirement. CDPs are closely settled and named, although unincorporated, communities. The Census works with local governments to decide which blocks make up a CDP. Block numbers will now be 4 digits with no suffix; this style of number will be available first with the P.L. 94-171 data release shortly before April 2001. Census blocks are the smallest area of land defined by line features on census maps. ZIP Code Tabulation Areas (ZCTAs) are approximately the same as USPS ZIP Code service areas and have been developed to address difficulties in mapping USPS ZIP Codes. ZIP Codes are assigned to routes or points, and technically aren't area features. ZCTAs will be done at the 3-digit level for large areas that don't have housing units (because ZIP Codes in these areas are as yet undefined by the US Postal Service).

In contrast to the predominately black and white paper products from 1990 and earlier, Census 2000 will have an emphasis on electronic map products, in color, with paper products available on demand. Electronic media will include the Internet, CD-ROM, and DVD-ROM. Plotter formats will include Adobe Acrobat Portable Document Format (PDF) and Hewlett Packard Graphic Language (HPGL). Examples of CDs being produced are the Congressional District Atlas, Census Mapper, and PL 94-171 Redistricting Data from the Census 2000 Dress Rehearsal. Digital format has advantages in the areas of more efficient storage, ease of selecting and choosing a map, and retaining the ability to print. Census's standard plotter is an HP DesignJet 1050C, which produces color or black and white output at 600 dots per inch and includes 80 megabytes of RAM and a 2 gigabyte hard disc. The Acrobat files will have thumbnails and geographic area names will be searchable.

Customers will still be able to order paper products from the Census Bureau. Cartographic products will be



available a month before the PL 94-171 data and should cost the same as in 1990 (\$5 a sheet for a printed map). Boundary files in Acrobat (PDF) will be downloadable to the public, but not the HPGL plotter format; the latter can be purchased on DVD.

Examples of paper products that will be available for purchase are large-format reference maps, such as Government Unit Block Maps, Census Tract Outline Maps, and State/County Outline Maps. After 2000, State/County Metro Areas, Urbanized Areas, and Congressional Districts maps will be available, as well as Public Use Microdata Sample Products (PUMS). Corner Point Files, based on map sheet coordinates, will be provided for large format maps only.

P.L. 94-171 paper products will be available by March 2001, HPGL files by April, and Acrobat files in May. The Governmental unit maps will be available on paper in May 2001, in HPGL in June, and in Acrobat in July. Other reference maps will follow later in 2001.

For those needing to manipulate electronic files, generalized boundary files will be available from the Census Bureau's Geography Division cartographic boundary file web site (<http://www.census.gov/geo/www/cob/>) in some standard GIS formats: ArcView shape files, ArcInfo export format files, and ASCII. The TIGER/Linefile discs will continue to be available as they have been for those who need to translate street and boundary files into GIS formats. Files will come with FGDC compliant metadata.

### U.S. Geological Survey (USGS)

Rea Mueller spoke to the Council concerning USGS issues. The Survey serves a variety of disciplines including geologic, cartographic (i.e., National Mapping Division), hydrologic, and biologic. They are moving into the web in all areas, including data, electronic publications, status graphics, GNIS, geography, and National Biological Infrastructure. Search and access tools include GLIS to identify and order materials, and Earth Explorer (from OHIOVIEW funding that contains Landsat and Corona).

Map lists will continue to be put online. These will show the version-date rather than the currentness-date. The version date is the latest date, and will be in the lower right-hand corner of the paper topographic map. New editions of the paper indexes will combine map indexes (the green books) and map lists (the information in the old brown books or white state map lists) onto one sheet. While, the printed map lists will only show the version date, the online map lists give both version and currentness dates. Map reference codes will be added to the index sheet. Maine is the prototype for this series, with North Carolina in the works. The Mineral Resources Data System (MRDS) and the Minerals Availability System/Minerals Industry Location System (MAS/MILS) databases are available in electronic format on CD-ROM-DDS-52.

**Terraserver** offers maps on the web. The DRG's are available for all of the U.S. except Alaska. The DOQ's are still not complete for the entire U.S.

Rea told the Council about a new information program that may be accessed by calling 1-888-ASK-USGS. One of the option buttons on the toll-free number is "Talk to the USGS Library Information Desk." The new web site (<http://ask.usgs.gov>) will have information on water, hazards, and biology.

The thematic map series are changing. The "I," "HA," and "Circum-Pacific" map series will continue to be produced, and be sent under a single depository number. Other series are complete and the final numbers are: C-146, OM-227, OC-148, GP-1016, MR-96, GQ-1804. A few maps in each series are still in progress, and will be sent when completed. The MF series may be saved but only in electronic form.

Progress continues on the online version of the *National Atlas*, which may be viewed at [www.nationalatlas.gov/](http://www.nationalatlas.gov/). The project is progressing with the cooperation of eighteen federal agency partners. Some new maps include a shaded relief map, and an earthquake map. *The National Atlas* has an interactive browser and connects with the **TerraServer** which allows patrons to view aspects of a local area.

Several trends were noted in USGS map production and distribution. There will be more cooperative partnerships. USGS maps will likely continue not to fall under copyright. Future revision of the topographic maps will focus on top-selling quads and on maps produced in cooperation with other agencies.

### U.S. Forest Service (USFS)

Betsy Banas from the US Forest Service, Washington, D.C. Office spoke to the Council about some new mapping activities. Mapping for the Forest Service historically was done from regional offices. But in 1975, the Forest Service began to consolidate mapping with the establishment of the Geometronics Service Center in Salt Lake City. As technology has evolved the Center has become increasingly involved in geospatial activities: providing geospatial data, services and training in addition to traditional mapping. In 1999 Geometronics Service Center was renamed the Geospatial Service and Technology Center (GSTC), to better reflect its new mission.

The production of the "Single edition" series of maps continues. These are produced to the specifications of the USGS 1:24,000 scale topographic quadrangles with Forest Service information as well. Several years ago, the Forest Service entered into an agreement with USGS to produce, in accordance with USGS standards, the quads covering the Forests. Consequently, the Forest Service is in the process of updating a large number of topo maps, and plans to keep their revision cycle on a tighter schedule than would otherwise be possible if USGS were responsible for their



update. Five years is the ideal but realistically it can be as much as 15 to 20 years. Quads in areas of frequent change are revised more frequently.

Until recently, the Forest Visitors' Maps have been available for purchase only from the individual forests themselves. But, the Service has entered into an agreement with USGS such that USGS will sell and distribute Forest Visitor Maps through their vendor network for participating Forests.

In October 1999, President Clinton called a halt to all construction of roads in unroaded forest areas. This (the Roadless Initiative) is a conservation effort to protect endangered species and promote biological diversity. An environmental impact statement will be done on 54 million acres. GIS has been an essential tool in this process. Numerous product-specific maps have been generated which display information from a variety of geospatial and tabular files. The data provides information regarding inventory of roadless areas, road status, fire risk, forest health. These can be viewed at: [www.roadless.fs.fed.us](http://www.roadless.fs.fed.us).

#### **National Park Service (NPS)**

Tom Patterson from the National Park Service Division of Publications at the Harpers Ferry Center spoke to the Council regarding mapping of the National Parks. Lands under Park Service stewardship cover most States and Territories, including Alaska, Hawaii, American Samoa, Guam, the Virgin Islands, and Puerto Rico. The Harpers Ferry Center staff of four cartographers provide visitor-orientation mapping for the 379 parks in the system. The

cartographic program at Harpers Ferry Center is unique among Federal agencies for its strong emphasis on graphic design.

The National Park Service web site receives approximately 850,000 hits per day. Within that site, the Harpers Ferry Center's web site is the 10th most popular web site in the NPS. There were 4.7 million hits on the Harpers Ferry site last year.

There are approximately 500 maps in the Division of Publications inventory, 99% of which are digitized. Of the digital inventory, 80% are on the web. The remaining 20% are still waiting to be printed before they are placed on the web. Vector map files are available in both Adobe Acrobat (PDF) format and Adobe Illustrator (AI) format. With the release of Adobe Illustrator 9.0, maps will be posted in PDF format only, since the PDF and AI formats will merge. Shaded relief images, which are used as placed art backgrounds within vector maps, are published on the web only in gray scale. Well over 100 shaded reliefs are loaded on the web page as 200 dpi JPEGs. There are no plans to scan historic park maps.

Tom presented new maps of Mt. Rainier; Crater Lake; Channel Islands (with digitally-generated bathymetry); Buck Island Reef in the Virgin Islands (he noted that it was a challenge to show the reef bottom with traditional cartographic methods, so they incorporated aerial photography); an oblique view of the Grand Canyon; California Trail; a guide to Fort Larned, KS (using 3D technology for the landscape details, including buildings and trees); and Fort Davis, Texas.

### **EARTH SCIENCE WEEK 2000**

by

**Julie Jackson**

American Geological Institute

As geoscientists throughout the world prepare to celebrate the third annual Earth Science Week, October 8-14, the popular saying "think globally; act locally" aptly describes the scope of this popular public outreach program. In 1999, geoscientists in all 50 states, Australia, Canada, and at least 20 other countries organized Earth Science Week activities in their communities including field trips, demonstrations, lecture series, film series, exhibits, school visits and open houses. The American Geological Institute (AGI) initiated Earth Science Week on behalf of the geoscience community to provide an annual focal point for public education about Earth and earth processes. Objectives for Earth Science Week 2000 include increasing public access to information about local geology and fostering public awareness of the important contributions the earth sciences and geoscientists make to their communities.

Since the launch in October 1998, an estimated one million students have participated, and Earth Science Week materials have been used in over 25,000 classrooms. In the United States, the President and members of Congress have issued statements supporting Earth Science Week, and last year 39 state governors, the Fort Peck American Indian tribes in Poplar, Mont., and mayors of major cities including Houston and Washington, D.C., signed Earth Science Week proclamations. Many state geological surveys, regional societies, and academic geoscience departments organized activities in their communities. The U.S. Geological Survey, a major supporter of Earth Science Week, sponsored events and activities in 43 states. More than 150 museums, science centers, libraries, and bookstores participated in Earth Science Week '99. Nearly 20 percent of the Borders Books and Music stores nationwide featured the week at their fall teacher appreciation nights and in their stores.



The AGI Member Societies' role in the success of Earth Science Week is significant, and its long-term growth and cumulative impact are largely dependent on the levels of their participation and support. This year's co-chairs, M. Ray Thomasson, president of the American Association of Petroleum Geologists (AAPG) in 1999, and David Stern, founder and chief executive officer of Research Systems Inc., are encouraging professional societies and their members to increase their participation. Last year, 18 of the 35 AGI Member Societies and at least 100 other geoscience organizations participated in the second annual celebration. Activities sponsored by the Paleontological Research Institution in New York, for example, included exhibits on biodiversity, a radio show on global change, technical talks and a Family Exploration Day. Other Member Societies promoted the participation of their members and teachers by distributing the Earth Science Week poster, bookmark, and related materials. In addition to encouraging its members to participate, the Geological Society of America (GSA) has developed a member-recommended earth-science reading list, which is posted on its web site, <http://www.geosociety.org/educate/earthweek.htm>. The Society of Exploration Geophysicists (SEG) also maintains an Earth Science Week web site, <http://students.seg.org/EarthScienceWeek/>, and they also make a slide set and a CD available to members in search of presentation and outreach materials.

"Although the recognition of Earth Science Week is growing worldwide," Thomasson notes, "local celebrations and the efforts of geoscientists in their communities are at the heart of its success." Grass roots activities are the essence of Earth Science Week, and geoscientists in a growing number of states are building networks of volunteers who participate in continuing public education programs. Geoscientists in Arizona and Texas have been especially effective in expanding and extending Earth Science Week's influence. Building on the success of its 1998 celebrations in Tucson and Phoenix, the Arizona chapter of the American Institute of Professional Geologists developed a statewide network of committees that organized tours, field trips, demonstrations, and activities throughout the state during Earth Science Week '99. In Texas, geoscientists in Austin, Dallas, Houston, and Midland are planning for Earth Science Week 2000. During Earth Science Week '99, one TV weatherman in Austin included earth-science questions and answers in every broadcast. The Dallas Geological Society "adopted" 18 schools, launching a program during Earth Science Week for members of the society to mentor teachers and students. The program has continued through the school year.

Many Earth Science Week efforts focus on students or teachers. Last year, all 330 students in an elementary school in Baldwin County, Ala., spent the week studying their

state's land regions and waterways and doing hands-on experiments about groundwater, erosion, rocks and minerals. This year the teachers hope to share their activities with other schools in the county. More than 800 Earth Science Week kits were used in teacher-training workshops in Arizona. Based on a conservative estimate that each teacher reaches 25 students, potentially 20,000 students in Arizona classrooms alone were exposed to Earth Science Week.

Shopping malls, community festivals, fairs and, parks have become increasingly popular venues for reaching people during Earth Science Week. In Lexington, the Kentucky Geological Survey used exhibits in a shopping mall to promote public awareness of geology in everyday life. Public interest was high, and the geoscientists staffing the exhibit were kept busy answering questions and providing information about geologic hazards, water quality and supply, waste disposal, and energy and mineral resources.

Many parks, national monuments, and mineral clubs hosted special activities. The Florida Geological Survey officially designated two state parks as geological sites: the Caverns State Geological Site near Marianna, and the Devil's Mill Hopper State Geological Site near Gainesville. The Smoky Mountain Mineral Society provided a display for the Stokely Memorial Library in Newport, Tenn.

Requests for materials and questions about starting Earth Science Week programs flow into the Earth Science Week web site from all over the world. U.S. organizations with international affiliations, such as the AAPG, have also promoted international interest. This trend has continued and in 1999, geoscientists and geoscience organizations in Argentina, Australia, Canada, Colombia, Croatia, Germany, Hong Kong, India, Japan, Liberia, Malaysia, Mexico, New Zealand, Norway, Poland, Puerto Rico, Saudi Arabia, Scotland, South Africa, Spain, Switzerland, Taiwan and Trinidad began developing Earth Science Week activities. As the North American and Australian initiatives expand, geoscientists from Europe to Asia to South America are also working to establish annual programs.

AGI's continuing role in Earth Science Week is to facilitate participation. The Earth Science Week web site, <http://www.earthsciweek.org>, provides a wealth of ideas, activities, and materials. Earth Science Week information kits containing posters, bookmarks, and a variety of other useful "user-friendly" outreach materials are available from AGI. Single copies of the kit are free. To request a kit or learn more about Earth Science Week, please visit the web site or contact Julie Jackson at AGI headquarters, 4220 King St., Alexandria, VA 22302. E-mail, [jjackson@agiweb.org](mailto:jjackson@agiweb.org); voice mail, (703) 379-2480.



## LITERATURE REVIEWS

by  
Carol J. La Russa

*New York Times'* Doreen Carvajal describes a new publishing practice in which the bibliography section of an academic monograph is published separately on the Internet and never appears in paper form. Several experts decry the practice noting the archival and maintenance issues it raises. ("The Book's in Print, But Its Bibliography Lives in Cyberspace," *New York Times*, Mon., May 29, 2000, 1(L), col 6, <http://www.nytimes.com/library/books/052900web-bibliographies.html>).

Carol Tenopir and Eleanor Read describe their study in which they showed that there are patterns in database usage in academic libraries and that at any given time relatively few users are logged on to the same databases. Peaks in use occur early in the week, at noon, and at busy times of the academic calendar. Other factors such as availability of remote log-in did not seem to be statistically significant. (*College & Research Libraries*, "Patterns in Database Use in Academic Libraries," vol. 61, no. 3, May 2000, p. 234-246).

Mark Stoves discusses the results of the questionnaire he developed to discover information professionals' opinions on using the web. He gives a variety of opinions and states that information professionals are generally suspicious of the quality of information found on the web and doubt that most library end users are able to judge the quality for themselves. ("Reference Librarians the Internet: A Qualitative Study," *RSR: Reference Services Review*, v. 28, no.1, p. 39-46).

In "Getting Out of the HTML Business: the Database Driver Web Site Solution" Kristen Antelman tells why your library might want to change to CGI (Common Gateway Interface) scripting to manage your web site. Traditional web sites using HTML are difficult to manage because each access point to the same resource must be maintained individually. CGI scripting makes it possible to deliver customized displays using the results from a search of a more easily maintainable database. New software tools make it simpler to use CGI scripting to do this. (*Information Technology and Libraries*, v. 18, no. 4, Dec. 1999, p. 176-181).

*Library Trends* published a special issue titled "Development and Fund-Raising Initiatives" with articles on donor relations, results of a survey of successful academic library development results, annual fund programs, friends of the library groups, and cyber donations using web sites and e-mail. (*Library Trends*, v. 48, no. 3, Winter 2000).

Roy Tennant describes techniques libraries use for acquiring digital content in his article "Beg, Buy, Borrow, License, and Steal." (*Library Journal*, v. 125, no. 11, June 15, 2000, p. 30).

In "To Keep Up, Go Beyond" Steven J. Bell shows how you can create a professional development plan using resources beyond the usual library literature. He suggests e-mail newsletters, web sites, and strategies to use to avoid being overwhelmed. (*College & Research Libraries News*, v. 61, no. 7, July/August 2000, p. 581-584).

Wendy Bucci and Timothy E. McMahon describe efforts to create stable URLs for Internet content in their Cutting Edge column published in *Information Outlook*. They discuss Publisher's Item Identifier (PII), Serial Item and Contribution Identifier (SICI), and Digital Object Identifiers. They end by explaining the CrossRef initiative for publishers of scientific and technical information which uses a limited set of metadata to create a unique citation with a stable URL that is usable for article-to-article linking. ("Toward a Stable Web: Current Initiatives Add Stability to a Dynamic Environment," *Information Outlook*, v. 4, no. 6, June 2000, p. 59-60).

In "Streamlining the Hiring Process," Mary M. Nofsinger and Betty J. Galbraith offer advice on how to act quickly to get the best candidates for your open position. (*College & Research Libraries News*, v. 61, no.6, June 2000, 499-501).

Joe Matthews provides ideas on how information professionals can compute the economic value cataloging records and systems add to the base cost of a collection. ("The Value of Information in Library Catalogs," *Information Outlook*, v.4, no. 7, July 2000, p. 18-24). Note: The bibliography for this article was published only on the Web. On July 25 it was available through the Special Libraries Association member-only web site but there was no response at the web address given at the end of the article.

Stephen J. Bensman has written an article detailing the history and problems of using various probability distributions in library and information science applications. ("Probability Distributions in Library and Information Science: A Historical and Practitioner Viewpoint," *Journal of the American Society for Information Science*, v. 51, no. 9, 2000, p. 816-833).



## JOB ANNOUNCEMENTS

### **Manager, Cartographic Laboratory, Syracuse University Library, Syracuse, NY**

Applicants should have a degree in geography or cartography (master's preferred) and expert knowledge of cartographic method and theory, as well as experience with graphics software, GIS, web design, and computer systems. Responsibilities include producing maps and graphics for department faculty, the university, and outside, not-for-profit agencies. Salary: \$29,000 to \$45,000 commensurate with experience. Applicants should send curriculum vitae, examples of work, and three letters of recommendation. Review of applications will begin September 15, 2000 and continue until the position is filled. Apply: Mark Monmonier, Chair, Cartographic Lab Search Committee, Department of Geography, Syracuse University, Syracuse, NY 13244-1020. Email: mon2ier@syr.edu.

(*Editor's note:* Elizabeth Wallace adds, "There is an article in the Summer 2000 issue of the SU Magazine about the cartographer who is retiring from this position that will be of interest to applicants: <http://www.sumag.syr.edu/summer00/staff/staff.html>")

### **GIS/Data Librarian, Rice University, Houston, TX**

Rice University, a private university located in Houston, Texas, is seeking a highly motivated librarian to provide GIS and data services to the community. Candidates with a strong combination of interpersonal and technical skills are encouraged to apply. The position reports to the Head of Government Publications and Microforms.

**Responsibilities:** The GIS/Data Librarian oversees the functions of the GIS/Data Center (GDC); assists and educates users (primarily Rice faculty, staff, and students) on GIS and data needs, resources, and projects; selects, installs, and tests GIS and data equipment, software, and resources; maintains the GDC web site; provides reference service at Government Publications and Microforms reference desk; serves on library, university, and professional committees and organizations; performs collection development for GIS and data resources and for maps in electronic, digital, and print formats; teaches classes and workshops on using GIS and data resources; and supervises one paraprofessional staff member and 1-3 student workers.

**Environment:** The GIS/Data Center (<http://www.rice.edu/Fondren/GDC/index.shtml>) provides a central location on campus for faculty, staff and students to work on projects involving GIS (geographic information systems) and data. Fondren Library is an exciting place to work with opportunities to participate in the development of leading edge library technologies. The range of library collections is widening to reflect the frequent addition of new university initiatives. An active program of digital resource development is grounded in successful collaboration with

University information technology staff and a broadening range of well-supported interdepartmental projects. Fondren Library (<http://riceinfo.rice.edu/Fondren/>) is currently preparing for a major building renovation and expansion.

Houston is a vibrant, multicultural city, with world-class visual and performing arts ranging from the traditional to the avant-garde. The fourth largest city in the country, Houston enjoys a low cost of living and easy proximity to the Gulf Coast. For more information, see: <http://www.rice.edu/houston/index.html>.

**Required Qualifications:** ALA accredited MLS; academic or work experience with spatial and numeric data resources; experience with and strong working knowledge of computer systems, including DOS, Unix, Macintosh, and Windows NT; ability to work with minimal supervision and to identify and meet user needs; ability to set priorities and manage time; excellent interpersonal skills; excellent oral and written communication skills.

**Preferred Qualifications:** Experience with GIS software and data, including one or more of the following: ArcView, ERMapper, MapInfo, ArcInfo, and Landview; social sciences or natural sciences background with experience in government publications and/or cartography; public service experience.

**Salary & Benefits:** Minimum salary \$37,000 with hiring salary commensurate with experience and qualifications; no state or local income tax; career advancement program; 21 benefit days; 8 study days; TIAA/CREF; health and life insurance; and tuition waiver. Applications received by September 15, 2000 will receive first consideration. To apply, send letter of application, resume, and the names, titles, addresses, e-mail addresses, and telephone numbers of three references to:

Melinda Reagor Flannery  
Assistant University Librarian/Search Coordinator  
Fondren Library MS-44  
Rice University  
P.O. Box 1892  
Houston, TX 77251-1892

Rice University is an affirmative action, equal opportunity employer.

### **Documents & Maps Reference Librarian and Bibliographer, University of Northern Iowa**

**General Description:** The Documents & Maps Reference Librarian and Bibliographer holds a joint appointment in the Reference and Instructional Services Department and the Collection Management & Special Services Department. Provides documents and maps and general reference, instructional, and collection management services to university students, faculty, staff, and the general public. Promotes use of and access to documents and maps collections, trains reference faculty and staff and educates



library users to find information in both governmental and commercial sources in all formats efficiently and effectively and serves as the principal authority on documents and maps questions. Helps subject bibliographers increase awareness and use of GPO-issued materials and serves as principal contact for the U.S. and Iowa document depository programs. Serves as liaison with the Acquisitions and Cataloging departments for handling of technical processing of documents and maps. Other duties include participation in the development and delivery of library instruction and active liaison work with selected academic departments. As bibliographer and liaison, is responsible for collection management, promotion of library services, and specialized instruction related to programs in those academic departments. Serves at the reference desk one evening a week and on weekends in rotation with other faculty. Participates in library and university committees and professional associations. Conducts a substantive program of research, scholarship, and/or creative work.

Specific Duties:

1. Staffs the reference desk, which provides both general reference and documents and maps reference, approximately 10-12 hours a week, including one evening a week and on weekends in rotation.
2. Promotes use of documents and maps to internal and external constituencies.
3. Coordinates electronic access to the federal and state documents collections.
4. Trains reference faculty and staff and library users to find government information in print and electronic form.
5. Has principal responsibility for educating librarians, staff, and patrons in use of government documents and maps and for assuring integration of government documents and maps into Rod Library's collection management, reference, and library instruction programs.
6. Serves as principal contact for U.S. & Iowa document depository programs.
7. Serves as liaison to Acquisitions and Cataloging departments for services related to documents and maps.
8. Provides library instruction to students and faculty through group instruction and via electronic and printed media.
9. Serves as bibliographer and liaison to selected academic social sciences departments; promotes the use of library services and resources among the students and faculty in selected academic disciplines; develops and maintains materials in selected classifications within the Reference collection.
10. Participates in departmental and library management through service on various task-focused committees.
11. Performs other duties as assigned.

Reports To: Head, Reference and Instructional Services Department; Head, Collection Management and Special Services Department.

**Qualifications:**

Required: ALA-accredited MLS or international equivalent; minimum of two years of professional library public services experience; demonstrated broad knowledge of and experience with U.S. documents, including demonstrated experience with electronic documents resources; demonstrated commitment to public services; demonstrated strong written, oral communications, and teaching skills.

Preferred: Public services experience in an academic library; work in a depository library; demonstrated interest and experience with maps collections; academic degree in the social sciences; second graduate degree (required for tenure).

Salary: \$ 36,344 with comprehensive benefits including TIAA/CREF. Rank commensurate with credentials and experience. Full-time, tenure-track position.

**Rod Library:**

Rod Library has a collection of 850,000 bound volumes, 721,500 microforms, 558,000 documents, 41,000 maps, 14,000 sound and video recordings, and more than 3,000 active periodical subscriptions. Faculty and staff of 58 [FTE] assisted by 30 students [FTE]. Rod Library has employed an Innovative Interfaces integrated system since 1989, and is committed to use of the Internet and WWW in serving the interests of its public. Member of the Cedar Valley Library Consortium. For further information, see Rod Library's web site at: <http://www.library.uni.edu/>

University/Community: The University of Northern Iowa, with an enrollment of 13,000 students, is a comprehensive university and one of Iowa's three state universities. UNI is located in a metropolitan area of 125,000. The Cedar Falls/Waterloo communities are the commercial, cultural, and political hub of northeastern Iowa, and offer a very affordable cost of living.

Application: Applications must be received by August 30, 2000 to be given full consideration. The Library encourages applications from minority persons, women, disabled persons, and Vietnam era veterans. Send a letter of application, resume, and the names, addresses, and telephone numbers of three professional references to: Professors Barbara Allen, Chair, Documents & Maps Reference Librarian and Bibliographer Screening Committee, Rod Library, University of Northern Iowa, Cedar Falls, IA 50613-3675.

The University of Northern Iowa is an Equal Opportunity Employer with a comprehensive plan for affirmative action.

**GIS Data Librarian**, Nature Conservancy Mid-Atlantic Division, Durham, NC  
**Title:** The Nature Conservancy's Mid-Atlantic Division GIS Data Librarian

**Supervisors:** GIS Manager, The Nature Conservancy, North Carolina Chapter/Assistant Professor of the Practice of Landscape Ecology, Duke University



**Location:** Landscape Ecology Lab, Duke University, Durham, Nc

**Prepared By:** Margaret Fields, GIS Manager, NC Chapter; Pat Halpin, Nicholas School of the Environment, Duke University

**Date Prepared:** July 10, 2000

**Application Deadline:** September 1, 2000

**Summary of Position:** The Nature Conservancy in collaboration with The Nicholas School of the Environment, Duke University is seeking a Geographic Data Manager / Librarian to construct and maintain an Internet based GIS data library for the Mid-Atlantic Division. The goal of this position is to better facilitate collaboration between academic researchers and conservation practitioners in the division and at the TNC Southern Resource Office. The GIS Data Librarian will be responsible for database maintenance and metadata development. As data development and training goals are achieved, development of innovative projects will be incorporated into the data librarian's role. This will be a Duke University research position working on a Nature Conservancy collaborative program located at the Nicholas School of the Environment, Duke University.

**Duties**

1. Develop an Internet data server to provide GIS data transfer capabilities between the university based data library and field and regional offices;
2. Assist in the delivery of technical support and the development of on-line help pages, scripts and software extensions to assist users in common GIS operations and custom conservation applications;
3. Assist in the development of user training workshops to promote access and usage of the database;
4. Respond to specific requests of GIS users in various offices within the four state division providing data and technical support as needed;
5. Process data from a variety of sources for use on the divisional data server;
6. Participate in research projects at Nicholas School of the

Environment as they pertain to TNC studies across the division.

**Requirements** The successful applicant will have:

1. Demonstrated skills in GIS (ArcInfo, ArcView, Arc-IMS, AML) image analysis (ERDAS Imagine), and GIS database design (INFO, MS-Access);
2. Demonstrated skills in web site development (HTML, Perl-CGI, JavaScript);
3. Familiarity operating GIS systems using both Windows-NT and UNIX environments;
4. A bachelors degree (master's preferred) and at least two years experience in GIS data development and analysis;
5. Ability to coordinate and prioritize a wide range of projects from many offices;
6. Excellent communication skills.

**Contact** (All forms of inquiry are welcome, but final applications are not accepted by fax, telephone, or e-mail.)

Please send a resume and cover letter to both addresses listed:

Margaret Fields, GIS Manager  
The Nature Conservancy, North Carolina Chapter  
One University Place, Suite 290  
4705 University Drive  
Durham, NC 27707  
919-403-8558; 919-403-0379 (fax); mfields@tnc.org

Pat Halpin  
Assistant Professor of the Practice of Landscape Ecology  
Duke University  
Nicholas School of the Environment  
P.O. Box 90328  
Durham, NC 27708-0328  
919-613-8062; 919-684-8741 (fax); phalpin@duke.edu

The Nature Conservancy and Duke University Are Equal Opportunity Employers.



## ANNOUNCEMENTS

### AMERICAN GEOLOGICAL INSTITUTE AWARDS GEOSCIENCE SCHOLARSHIPS

The American Geological Institute has awarded academic scholarships to five petroleum geoscientists from Azerbaijan through its International Petroleum Geoscience Scholarship Program. The scholarships, made possible through the financial support of ExxonMobil, Chevron, and Frontera Resources, helps outstanding young geoscience professionals gain advanced training in petroleum exploration and production technologies, economics, environmental protection, and legal aspects of mineral resource development.

The scholarship awardees--Octay Rahmanov, Emin Sadikhov, Nigyar Samedova, Mekhti Yusifov, and Javid Zeynalov-- received their diplomas in the geosciences from the Azerbaijan State Oil Academy and have career interests in the petroleum industry. The AGI scholarship will provide full support for study in the geological sciences at Texas A&M University in College Station, Texas for the 2000-2001 collegiate year. The students will then have an opportunity for an additional six-week internship appointment at a company sponsor office in the United States before returning to Azerbaijan.

AGI has awarded scholarships to twelve Azeri petroleum geoscientists since the International Petroleum Geoscience Scholarship Program in Azerbaijan began in 1997. AGI works closely with Azerbaijan academic institutions and the State Oil Company of Azerbaijan Republic (SOCAR) to identify the most qualified geoscience students to be considered for the program.

For more information on the program, contact Dr. Marcus Milling at AGI <agi@agiweb.org> or David Puls at ExxonMobil offices in Baku, Azerbaijan at +011-994-12-98-24-60.

### AMERICAN GEOLOGICAL INSTITUTE RECEIVES AWARD TO CONTINUE COLD REGIONS DATABASE

The National Science Foundation (NSF) has awarded the Cold Regions Bibliography Project to the American Geological Institute. The 5-year award supports the continuance of the *Antarctic Bibliography* and the *Bibliography on Cold Regions Science and Technology* and will be administered by the Foundation with funds from its Antarctic and Arctic research programs and from the U.S. Army Cold Regions Research and Engineering Laboratory. Guy G. Guthridge, Office of Polar Programs at the National Science Foundation said of the award, "The high cost of research in remote and cold regions makes every scientific publication from the Antarctic and the Arctic an especially valuable contribution to world science. The Foundation and the Army are pleased that the American Geological

Institute, with its bibliographic experience and its international reach to scientific institutions and individuals, is continuing the Antarctic and cold-regions bibliographies."

Scientific investigations being conducted in cold regions, especially during the last two decades, are providing new information about the Earth's systems, evolution, and origin. These significant discoveries are helping researchers unravel the complexities associated with topics ranging from global climate change and ozone holes to life in extreme environments and weather prediction. The NSF and the U.S. Army have taken a leadership role in supporting this research and making the findings available to the public. In 1994, the director of the Scott Polar Research Institute (SPRI) stated in a letter to the NSF that the "SPRI places the highest importance upon this collaboration . . . The *Antarctic Bibliography* provides the essential foundation upon which all Antarctic science must build." This was reiterated to the NSF in 1996 when the director of the British Antarctic Survey and the acting director of the SPRI wrote "the United States has insured that the Antarctic science community has one of the most complete regional bibliographies available for anywhere in the world" and that "a substantial proportion of publications listed in the *Antarctic Bibliography* cannot be found in any other bibliography or database."

The current bibliographic databases contain nearly 250,000 citations of literature published throughout the world over the last 50 years in more than 65 languages, including reports, patents, maps, and other documents. The *Antarctic Bibliography* covers all disciplines pertaining to the region including biological and geological sciences, medical sciences, meteorology, oceanography, atmospheric and terrestrial physics, expeditions, logistics equipment and supplies, and tourism. The subject matter of the *Bibliography on Cold Regions Science and Technology* includes scientific and engineering research related to materiel and operations in a winter battlefield, the nature and impact of cold on facilities and activities, cold-related environmental problems, and the impact of human activity on cold environments.

The major goal of the Project is to maintain comprehensive coverage of the published literature on cold regions. AGI will add at least 2000 references annually to the *Antarctic Bibliography* and a minimum of 5000 references to the *Bibliography on Cold Regions Science and Technology*. Users of the databases include scientific researchers, government officials, industry, educators, and students. Both bibliographies will be made available to users via web-based products and CD-ROM.



**MEMBER NEWS**  
compiled by Shaun Hardy  
hardy@dtm.ciw.edu

By now all members should have received the registration booklet for November's annual meeting, "Summit 2000" in Reno. (It's the June issue of GSA Today.) If you have not please notify me and I will get one out to you. Watch for your copy of the 2000 Membership Directory in August's mail -- a "double header" with the Proceedings of the 1999 Denver meeting. Please be sure to check your entry and notify me of any changes.

**New Members**

David Bigwood  
Librarian  
Lunar and Planetary Institute  
3600 Bay Area Blvd.  
Houston TX 77058-9311  
phone: 281-486-2134; fax: 281-486-2186; e-mail:  
morgan@tenet.edu

Janet B. Dixon,  
GeoSciences, Anthropology and Maps Reference Librarian  
Reference Dept.  
University of Arkansas Libraries  
Fayetteville AR 72701  
phone: 501-575-2192; fax: 501-575-4592  
e-mail: jbdixon@comp.uark.edu

Suzanne N. Taylor  
Reference Librarian  
The Libraries  
Colorado State University  
Fort Collins CO 80523  
phone: 970-491-1880; fax: 970-491-5817  
e-mail: staylor@manta.colostate.edu

**Returning Member**

Lee Regan  
Reference Librarian  
U.S. Geological Survey Library  
12201 Sunrise Valley Dr.  
Reston VA 20192  
phone: 703-648-4475  
e-mail: clregan@usgs.gov

**Directory Changes**

David P. Salt  
Serials Librarian  
Cataloguing Dept.  
University of Saskatchewan Libraries  
Room 24 Main Library/Murray Building  
3 Campus Drive  
Saskatoon Saskatchewan S7N 5A4  
CANADA  
phone: 306-966-5954; fax: 306-966-5919  
e-mail: david.salt@usask.ca

Lisa Wishard  
phone: 505-844-7486



## 1998-1999 Guidebooks Considered by the GIS Guidebooks Standards Committee

### AAPG Pacific Section.

Guidebook #75 Geology of the Midway-Sunset Oil Field and adjacent Temblor Range San Joaquin Basin California. 3d printing (with slight revisions) in 1999 of the 1996 publication;

1999 Late Cenozoic Fluid Seeps and Tectonics along the San Gregorio Fault Zone in the Monterey Bay Region, California.

### Alabama Geological Society,

Annual field trip no. 35, "Sequence stratigraphy and biostratigraphy of upper Cretaceous strata of the Alabama coastal plain, Oct. 16-17, 1998

### Annual Field Conference of Pennsylvania Geologists,

63rd, "Geotectonic environment of the Lake Erie crustal block," Oct. 1-3, 1998.

64th, "Economic & environmental geology and topography in the Allentown-Bethlehem area," Sept. 30, Oct. 1-2, 1999.

### Assateague Shelf and Shore Workshop

24th 1998, "From Piedmont upland to tidal estuary-the path of a sedimentary particle," field trip held April 4, 1998 by Cyril Galvin and others

### Austin Geological Society,

Guidebook 18, 1998. "The Hill Country Appellation: A Geologic Tour of Selected Vineyards and Wineries of Central Texas,"

Guidebook 19, 1999. "Rocks, Resources, and Recollections: A Geologic Tour of the "Forty Acres"--The University of Texas at Austin Campus,"

### Canadian Society of Petroleum Geologists:

CON-1 A Traveller's Guide to Geological Wonders in Alberta Produced by the Provincial Museum of Alberta, with the support of the CSPG and the Federation of Alberta Naturalists. 254 page. Available through the CSPG office. List Price - \$24.95, CSPG Member Price - \$18.71 Shipping in Canada - \$5.00. Shipping to the U.S. - \$7.00

G21 - Field Guide - Devonian (Frasian) Cyclostratigraphy at Grassi Lakes Trail: Implications for Subsurface Reservoir Prediction List Price - \$30.00, CSPG Member Price - \$22.50 Shipping in Canada - \$6.00. to the U.S. - \$9.00

Geo-Triad '98: Pre-2: Belly River (Judith River) Group sequences and sedimentology in Southern Alberta and Saskatchewan Plain / David A. Eberth. Drumheller: Alberta: Royal Tyrell Museum, 1998.

Geo-Triad '98, Pre-3 CSPG Field Trip Guidebook; 1998, The Moose Mountain detachment fold, an example of a third generation exploration target in Alberta Foothills: a field trip for CSPG, CSEG & CWLSS Geo-Triad '98, Field Trip Pre-3, Saturday June 13th, 1998 / Andrew C. Newson and Deborah Sanderson. Calgary: , CSPG. 1998.

Geo-Triad '98: Pre-4: Fractured Cretaceous and Triassic strata of the Central Alberta Foothills / field trip leaders Roland G. Dechsn, Byron Veilleux. Calgary: , CSPG.1998.

Geo-Triad '98: Pre-5: Holes in the Rockies / field trip leader S. W. Burnie et al.. Calgary: CSPG, 1998.

Geo-Triad '98: Post-3: Leduc Reef to basin relationships, Burnt Timber Embayment, Alberta Front Ranges / field .

Geo-Triad '98: Post-5: Fault-related folding and seismic modelling of structures in the Foothills and Front Ranges of Southern Alberta / field trip leader Deborah A. Spratt & Graziella Kirtland Grech.

Geo-Triad '98: Post-6: Sequences, stratigraphy, and depositional environments of the Horseshoe Canyon Formation in the Drumheller Region / David A. Eberth, William Straight. Calgary: CSPG, 1998.

### CSPG Field Trip Guidebook; 1998, Post-6.

Pre-1: Triassic depositional framework and sequence biostratigraphy, Northeastern British Columbia: field trip guidebook, June 2-5, 1999 / John-Paul Zonneveld & Charles M. Henderson. Calgary: CSPG, 1999. 1999 CSPG and Petroleum Society Joint Convention, Calgary, Alberta,

### June 14-18, 1999. CSPG Field Trip Guidebook;

Pre-2: Marine/nonmarine transitions of the Judith River Group (Belly River Group) and the Basal Horseshoe Canyon Formation, Southern Alberta Plains: June 11-13, 1999 / David A. Eberth.

Pre-4: Exploration targets in the Canadian Rocky Mountain Foothills / Andrew C. Newson and Deborah Sanderson. Calgary: CSPG, 1999.

Pre-5: Depositional facies and stratigraphic framework of the Jurassic-Lower Cretaceous clastic wedge (Fernie/Kootenay/Nikanassin/Blairmore/Mannville Groups), West Central Alberta: CSPG field trip / core workshop / Lorne Rosenthal. Calgary: CSPG, 1999.

Post-2: geology and paleontology of the Mt. Stephen trilobite beds and the Burgess shale, Yoho National Park, British Columbia / by Desmond Collins. Calgary: CSPG, 1999. June 14-18, 1999.

Post-3: Fairholme (Upper Devonian) carbonate platform-to-basin transition, Kananaskis-Banff Area, S.W. Alberta / Mark P. Mallamo. Calgary: CSPG, 1999.

Post-6: a field trip to historic Turner Valley / Leaders: Aubrey Kerr, Clark Siferd and Clint Tippett. Calgary: CSPG, 1999.

### El Paso Geological Society:

1998 Permian stratigraphy and paleontology of the Robledo Mountains, New Mexico. co-published with the New Mexico Museum of Natural History and Science.

1998 Geological excursions of the El Paso Area. Vol. II: Kilbourne-Hunts Holes and Vicinity, New Mexico

1999 Geological Excursion of the El Paso Area Vol. III: Geology along the Border, Santa Teresa to Columbus, New Mexico

### Friends of the Pleistocene, Northeast [cell],

62nd Annual Reunion, May 22-23, 1999, "Paleoperiglacial landscapes of central Pennsylvania." Hosted by Bucknell University.

### Friends of the Pleistocene. South-Central Section.

1999 Aspects of soil geomorphology in eastern Oklahoma: a Pleistocene Medley.

### Joint GAC/MAC/APGGQ Meeting, Quebec, Quebec, Canada 1998:

A1: Le complexe de Sept-Iles: magmatisme, differentiation et considerations economiques / Jules Cimon. Quebec: [GAC Comite Quebec 1998], 1998. Guide d'excursion A3, 15-17 mai, 1998.

A2: developpements d'un arc volcanique, la region de Val d'Or, ceinture de l'Abitibi - Volcanologie physique et evolution metallogenique / P. Pilote, J. Moorhead et W. Mueller. Quebec: [GAC Comite Quebec 1998], 1998. Guide d'excursion A2, ? mai, 1998.

A3: Decouverte des richesses minierees des Appalaches du sud-est du Quebec: la ou le passes et le present se cotoient / L.-P. Perras et R. Marquis. Quebec: [GAC Comite Quebec 1998], 1998. Guide d'excursion A1, 16-17 mai, 1998.

A4: Architecture and petrogenesis of arc ophiolites: example from the ophiolitic complexes of southern Quebec / Rejean Hebert and J. H. Bedard. Quebec: [GAC Comite Quebec 1998], 1998. Guide d'excursion A4 13-15 May, 1998.

A5: Nappes at melanges in the Quebec/Bellechasse area: their regional tectonic and stratigraphic significance in the Humber Zone / Daniel Lebel and Donna Kirkwood. Quebec: [GAC Comite Quebec 1998], 1998. Guide d'excursion A5, 15-17 mai, 1998.

A6: Histoire tectono-magmatique de la region du Saguenay (Province de Grenville) / Tectono-magmatic history of the Saguenay region (Grenville Province) / Claude Hebert and Edward H. Chown. Quebec: [GAC Comite Quebec 1998], 15-17 mai, 1998.

A7: Les pierres de construction et d'ornementation du Vieux-Quebec / Henri-Louis Jacob et Robert Ledoux. Quebec: [GAC Comite Quebec 1998], 1998. Guide d'excursion A7, 17 mai, 1998.

A8: The Black-River-Trenton Transition near Quebec City: a case for an Ordovician global change? / Denis Lavoie, Omer Sabary Ndzangou and Pierre-Andre Bourque. Quebec: [GAC Comite Quebec 1998], 1998. Guide



d'excursion A8, 17 mai, 1998.

B1: Relative sea-level variations during the Holocene, middle St. Lawrence estuary / Jean-Claude Dionne and Michelle Garneau. Quebec: [GAC Comite Quebec 1998] Guide d'excursion B1, 21 mai, 1998.

B2: Morphodynamics and internal architecture of coastal facies during a regressive regime: Holocene analogs / Phillip R. Hill and Bernard Long. Quebec: [GAC Comite Quebec 1998], 1998. Guide d'excursion B2, 21-24 mai, 1998.

B3: Metallogeny of the Chibougamau district: geological evolution and development of distinct mineralized systems through time / Pierre Pilote, Claude Dion and Remy Morin. Quebec: [GAC Comite Quebec 1998], 1998. Guide d'excursion B3, 20-24 mai, 1998.

B4: Geology and metallogeny of the Cu-Porphry-related mines Gaspé, Murdochville, Gaspésie / Geologie et metallogenie du gite de cuivre d'affinite porphyrique des mines Gaspé, Murdochville, Gaspésie / Robert Wares and Daniel Brisebois. Quebec: [GAC Comite Quebec 1998], 1998. Guide d'excursion B4, 21-22 mai, 1998.

B5: The Belts Cove ophiolite and its cover rocks / J. H. Bedard and K. Lauziere. Quebec: [GAC Comite Quebec 1998], 1998. Guide d'excursion B5, 21-25 mai, 1998.

B6: Stratigraphic and structural transect across the southern Quebec Appalachians / A. Tremblay and S. Castonguay. Quebec: [GAC Comite Quebec 1998], 1998. Guide d'excursion B6, 21-24 mai, 1998.

B8: Sedimentology and paleontology of the early Ordovician through early Silurian shallow water carbonates of the Mingan Islands national Park and Anticosti Island; Quebec / Andre Desrochers, Paul Copper and Darrel G. F. Long. Quebec: [GAC Comite Quebec 1998], 1998. Guide d'excursion B8, 20-26 mai, 1998. Geological Association of Canada Annual Meeting, Sudbury, Ontario, 1999 Go to <http://geoinfo.gsc.nrcan.gc.ca/search/> and search for Title: Annual meeting ... guidebook / Geological Association of Canada]

Guidebook A1/B1: Sudbury Ni-Cu-PGE deposits - South Range (A1)

Guidebook A2: Transects near the Grenville Front near Sudbury, Ontario \*

Guidebook A3: World-class Archean vein gold deposits of the Porcupine \*

Guidebook A4: Tectonics of impact basin formation: the Sudbury example \*

Guidebook A5: Quaternary geology and geomorphology of the Sudbury regi \*

Guidebook A6: Environmental geology and land reclamation history of Su \*

Guidebook A8: Cobalt, a historic silver mining camp \*

Guidebook B2: Ordovician and Silurian fossils and strata of the Lake T \*

Guidebook B3: Late Archean rock types and controls on gold ...

Guidebook B5: Actualistic and nonactualistic Precambrian...

Guidebook B6: Overburden as a media for kimberlite, base...

Guidebook B7: Geology of the Sudbury Structure \*

Guidebook B8: Hydrothermal alteration mineral assemblages...

Guidebook B9: Solidification fronts of the Sudbury melt \*

Guidebook B10: Polystage convergence and extension in...

Geological Association of Canada:

Paleontology Division, Publication #7 Ordovician and Silurian Rocks and Fossils of the Southern Georgian Bay Area, Ontario By: D. Rudkin, C. Stott, D. Tetreault, and C. Rancourt, 1998

Paleontology Division Publication #5 Geology and Paleontology of the Port au Port Peninsula, Western Newfoundland (Field Trip Guidebook No. 5) By: H. Williams, E. Burden, L. Quinn, P. von Bitter and A. Bashforth, 74 pp., 1996

Paleontology Division Publication #2 Cambrian-Ordovician Geology of the Ottawa Region (Field Trip Guidebook No.2) By: D. A. Williams, P. G. Telford, A. D. McCracken and F. R. Brunton, 51 pp., 1992

Paleontology Conference Field Trip Guidebook #6, Upper Cretaceous and Tertiary Stratigraphy and Paleontology of Southern Saskatchewan. Edited by: L. McKenzie McAnally

Geological Association of New Jersey,

15th annual meeting held Oct. 16-17, 1998. "Economic geology of central New Jersey - field guide and proceedings,"

These guidebooks were all prepared for the GSA North-Central Section, 33rd Annual Meeting, April 1999: Illinois State Geological Survey ISGS Guidebook

26. "Glacial sediments, landforms, paleosols, and a 20,000-year-old forest bed in east-central Illinois," Geological field trip 1, April 21, 1999.

27. Geology, hydrology, and water quality of the karst regions in southwestern Illinois and southeastern Missouri: Geological field trip 2, April 24-25, 1999.

28. "Quaternary geology, geomorphology, and climatic history of Kane County, Illinois," Geological field trip 3, April 24, 1999.

29. "The classic Silurian reefs of the Chicago area," Geological field trip 4, April 24, 1999.

30. "Neotectonics of the northern Mississippi embayment" Geological field trip 5, April 24-25, 1999.

31. "Middle Mississippian carbonates and siliciclastics in western Illinois," Geological field trip 6, April 24-25, 1999.

Geological Society of America, Southeast Section,

Coal Division Field Trip, "Coal geology, paleobotany, and regional stratigraphy of the middle part of the Kanawha formation, southern West Virginia," March 28-29, 1998.

Geological Society of Nevada. Special Publication

27. "Sediment-hosted gold deposits of the Eureka (Ruby Hill mine) and Gold Bar Districts, east-central Nevada," 1998 Spring field trip guidebook, May 30-31, 1998.

28. "Shallow expressions of deep, high-grade gold deposits," 1998 Fall field trip guidebook, Sept. 25-27, 1998.

29. Low-sulfidation gold deposits in northern Nevada, Olinghouse deposit, Mule Canyon deposit, Midas deposit" 1999 Spring field trip guidebook, May 22-23, 1999.

30. "Geology and ore deposits at Bingham Canyon, Barney's Canyon, Mercur and adjacent districts in the Oquirrh Range," 1999 Spring field trip guidebook of the Elko Chapter, May 14-16, 1999.

31. "Geology and gold mineralization of the Buffalo Valley area, northwestern Battle Mountain trend..." 1999 Fall field trip guidebook, October 16-17, 1999.

Geological Survey of Canada. Miscellaneous Report

64. Living with Frozen Ground: a field guide to permafrost in Yellowknife, Northwest Territories, edited by Stephen A. Wolfe. Ottawa: Geological Survey of Canada, 1998. Prepared for the 7th International Conference on Permafrost, Yellowknife, June 23-27, 1998. 71 p.

Georgia Geological Society Guidebooks

Volume 19, No. 1, 1999 "An Introduction to Sequence Stratigraphy: Illustrations from the Valley and Ridge Province in Georgia and Alabama."

Volume 18, No. 1, 1998 "Geology and Natural History of the Okefenokee Swamp and Trail Ridge, Southeastern Georgia-Northern Florida,"

Idaho Museum of Natural History, 1999.

Guidebook to the Geology of Eastern Idaho.

International Association for Engineering Geology and the

Environment, 8th Vancouver, British Columbia, Canada, 21-25 September, 1998, Compiled by J. J. Clague.

IAEG, 1998. Technical tour guide books:

Jackson, Marie "Stone Landmarks: Flagstaff's geology and historic building stones by Marie D. Jackson. 1999 published by Piedra Azul Press. Flagstaff AZ.

Kentucky Society of Professional Geologists.

1998 Geology of the Pound Gap Roadcut, Letcher County, Kentucky. 169p.

National Speleological Society convention guidebook.



1998 Journeys through TAD; 1998 Geary M. Schindel and John L. Hickman, eds.

1999 Annual convention guidebook, Morgantown, WV, 248 p.

Nevada Petroleum Society:

1998 Hydrocarbon Habitat and Special Geologic Problems of the Great Basin

1999 Cenozoic Geology of the Northern Colorado River....

New England Intercollegiate Geological Conference,

91st Annual Meeting, October 1-3, 1999. Guidebook to field trips in Vermont and adjacent regions of New Hampshire and New York, edited by Stephen F. Wright, hosted by University of Vermont.

New Mexico Geological Society:

1998 Las Cruces Country II

1999 Albuquerque Geology (1999)

New York State Geological Association Field Trip Guidebook,

71st Annual Meeting, Oct. 1-3, 1999, sponsored by SUNY College at Fredonia.

Ohio Division of Geological Survey, Guidebook

13 1998 Sampling the layer cake that isn't: the stratigraphy and paleontology of the type- Cincinnati. prepared (but revised) for the 1992 GSA Annual meeting

14 1998 Geology along the Towpath: stones of the Ohio & Erie and Miami and Erie Canals. prepared for the 1998 North Central GSA meeting

15 1998 Sedimentology and provenance of Carboniferous and Permian rocks of Athens County, southeastern Ohio. prepared for the 1998 North Central GSA meeting

16, 1998: "Quaternary geology along the eastern margin of the Scioto lobe in central Ohio." originally prepared for the 1998 North-Central Section meeting of the Geological Society of America.

Oklahoma Geological Survey. Guidebook

31 1998 Geology of the Hartshome Formation, Arkoma Basin,

Oklahoma.

Roadside Geology of Indiana. Mountain Press. 1998

Roadside Geology of Maine. Mountain Press. 1998

Society of Economic Geologists. Guidebook Series

30 1998 Gold deposits of northern Sonora Mexico.

SEPM - Great Lakes Section

1999 Sequence, Cycle and Event Stratigraphy of Upper Ordovician and Silurian Strata of the Cincinnati Arch Region. 144p. Also published by the Kentucky Society of Professional Geologists.

SEPM - Permian Basin Section:

1998 Big Bend Field Trip: Structural Types and Hydrocarbons, Folds, Faults, and Fractures

Texas Bureau of Economic Geology, Guidebook 27, 1998.

"Geology of Big Bend Ranch State Park, Texas,"

USGS Open-file Report.

98-577, "Alloctyclic controls on Paleozoic sedimentation in the central Appalachian Basin," by Cecil, C.B., Brezenski, D. K., and Dulong, F. T., prepared for GSA annual meeting, 1998, field trip no. 4, Oct. 23-25, 1998.

99-301, "Tertiary coals in south Texas: anomalous cannel-like coals of Webb County (Claiborne Group, Eocene) and lignites of Atascosa County (Jackson Group, Eocene) - geologic setting, character, source-rock and coal-bed methane potential," prepared for AAPG Annual Convention, 1999, Energy Minerals Division field trip no. 15, April 14-15, 1999.

West Texas Geological Society Annual Trip Guidebook

1998 (WTGS pub no. 98-104) Upper Pennsylvanian and Wolfcampian mixed carbonate-siliciclastic systems, Sacramento Mountains, New Mexico: outcrop models of subsurface plays and reservoir development.



## GIS PUBLICATIONS LIST

Proceedings of the Annual GIS Meetings (ISSN 0072- 1409) \$45.00 each; standing orders are \$45.00 per year.  
v. 29, 1999 *Accreting the Continent's Collections*, ed. by Charlotte R.M. Derksen and Connie J. Manson, (ISBN 0-934485-31-3)  
v. 28, 1998 *The Costs and Values of Geoscience Information*, ed. by Connie J. Manson. (ISBN 0-934485- 29-1)  
v. 27, 1997 *Expanding Boundaries: Geoscience Information for Earth System Science*, ed. by Barbara J. DeFelice. (ISBN0-934485-23-2)  
v. 26, 1996 *Crossing the Bridge to the Future: Managing Geoscience Information in the Next Decade*, ed. by Nancy L. Blair. (ISBN 0-934485-26-7)  
Proceedings volumes 1through 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

### 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  
Science & Technology Libraries  
Syracuse University Library  
Syracuse, New York 13244-2010  
phone: 315/443-2160; fax: 315/443-5549; e-mail: [eawallac@library.syr.edu](mailto:eawallac@library.syr.edu)

Payment must be made in U.S. dollars.



GEOSCIENCE  
INFORMATION  
SOCIETY

# newsletter

GIS Newsletter Editor  
Connie J. Manson  
2525 Sleater Kinney Road N.E.  
Olympia, WA 98506