



newsletter

*p. 2 write up for Forum
p. 7 deadlines
11/19/97 make it a committee
membership go
please read*

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PRESIDENT'S COLUMN

I hope everyone attending the 1996 annual conference in Denver got as much information, inspiration, and enjoyment from the events as I did! It was very rewarding to realize the results of a year's worth of effort and to meet people who have been so active in making things happen. It made me appreciate once again how much the Geoscience Information Society contributes to our members and the people we serve, as well as to the annual Geological Society of America meeting, where our public programs are well-attended by non-GIS members. In this and forthcoming newsletters, I hope that those of us who attended can share the events, ideas and discussions from the conference with all the membership.

One of the enjoyable events at the annual meeting is the awards luncheon, at which we take time to thank those involved in running the society and organizing the annual meeting, and also to present formal awards that recognize contributions to geoscience information. Special thanks went to: Barbara Haner as outgoing Past President, Nancy Blair as outgoing President, and Connie Manson as outgoing Newsletter Editor for all their work in those roles. Thanks for their work on the annual conference went to the Conference Planning Committee: Charlotte Derksen, Barbara Haner, Steve Hiller, Suzanne Larson, Joni Lerud, Connie Manson, Vivienne Roumani-Denn and Connie Wick, Linda Musser for facilitating the Professional Issues Forum, and the committee chairs. Recognized this year in the Awards ceremony with the GIS-Mary B. Ansari Best

Reference Work Award was Thomas Ahrens for "A Handbook of Physical Constants". The Best Paper Award was given to Richard Walker and Myeonghee Lee for their paper "The Literature Cited by Water Resources Researchers", and the Best Guidebook Award was given to Harold Lloyd James for Geologic and historic guide to the Beartooth Highway, Montana and Wyoming.

Highlights of the meeting included the reception and library tour at the Arthur Lakes Library hosted by Joni Lerud and her staff, and a Field Trip, organized by the Local Arrangements Committee of Joni Lerud, Glenn Cook, Lisa Dunn and Suzanne Larson. One of the NSF Digital Library Projects, the Alexandria project, was featured both at the Symposium and at the Exhibit Booth, with the assistance of Suzanne Larson. Vivienne Roumani-Denn organized an excellent, standing-room-only Digital Database Forum that focused on Geographic Information Systems for the non-expert, and on using web-based data in these systems. April Love and the many people who helped her put together and staff the Exhibit Booth found themselves rewarded with a prime location on the exhibit hall, and therefore lots of activity at the booth.

At the Annual Business meeting, the "gavel" is passed, the new officers start their terms, and major concerns for the coming year are identified. One of these is declining membership, and I am very pleased that Jim O'Donnell has agreed to Chair this committee and oversee the development of a new Membership Brochure as part of that work. Another is the changing world of government information, and the need for our Society to respond to proposals and actions that will not benefit our users. Look over the minutes of the business meeting that are in this newsletter for a summary of the issues discussed.

There was a lot of energy, ideas and enthusiasm generated at the meeting, which will carry on through the work of committees and individuals throughout the year. I'm very interested in hearing from anyone who wants to take an active part in work of GIS by serving on a committee. Committee service does not require attendance at the conference, and can provide a way to stay up-to-date on issues like preservation. Those of you who have let me know about your interest in a committee will be hearing from me soon; if you have not yet expressed interest in a committee but would like to, please let me know soon.

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December, 1996 OFFICERS

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

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

Material for the February, 1997 issue of the GIS Newsletter should be received no later than January 20, 1997. If possible please send materials by e-mail or on IBM-compatible disk (Wordstar 3.3, Wordperfect 5.1, or ASCII format).

TREASURER'S REPORT

GEOSCIENCE INFORMATION SOCIETY - 3rd Quarter Financial Report - 1996

Checking accounts:

| | |
|--------------------------------|--------------------|
| Balance from 1996 2nd quarter: | |
| Bank of America | \$20,804.48 |
| First National Bank (WY) | <u>\$15,151.20</u> |
| | \$35,955.68 |

Income:

| | First National Bank | Bank of America |
|----------------------------------|---------------------|---------------------------|
| Dues - Personal | \$240.00 | |
| Publication sales | 150.00 | |
| Newsletter subscriptions | 40.00 | |
| Vender donations for '95 meeting | | \$800.00 |
| Transfer from Ansari savings | | 500.00 |
| Interest | <u>85.87</u> | <u>136.50</u> |
| Total income | \$515.87 | + \$1,436.50 = \$1,952.37 |

Expenses:

| | | |
|------------------------------------|-------------------|-------------------------|
| AGI member dues | 88.00 | |
| Secretary | 92.22 | |
| "GSA Today" ('96 meeting) | 244.95 | |
| Conference calls | 263.92 | |
| Publication Manager | 158.24 | |
| Vice President | 42.42 | |
| CUAC | 215.75 | |
| Newsletter (printing & postage) | 861.18 | |
| Membership directory (printing) | 980.00 | |
| 1996 Annual meeting Exhibits Comm. | 750.00 | |
| 1995 Best Reference Award | | <u>500.00</u> |
| | <u>\$3,696.68</u> | + \$500.00 = \$4,196.68 |

3rd Quarter 1996 checking balance = \$11,970.39 (WY) + \$21,740.98 (BofA) = \$33,711.88

Savings Accounts =

| | Ansari Funds | Bristol Fund |
|------------------------------------|-------------------|------------------|
| 2nd Quarter 1996 closing balance | \$4,828.46 | \$ 765.16 |
| 2nd Quarter 1996 interest | 9.31 | 3.86 |
| Transfer to BofA checking | -500.00 | |
| 3rd Quarter closing balance | \$4,337.77 | \$ 769.02 |

Total in savings = \$5,106.79

Grand total, checking and savings = \$38,818.67

| | Income | Expenses |
|--------------------|-------------|-------------|
| 1996 budget | \$15,205.00 | \$19,090.00 |
| Through Sept. 1996 | \$12,962.07 | \$ 9,729.87 |

Submitted by Sally Scott, GIS Treasurer

VICE PRESIDENT'S COLUMN

The 1996 meeting is barely over, and yet we're already planning for the 1997 meeting in Salt Lake City. GSA's theme is "Global Connections."

The symposium is shaping up. The topic will be "The Costs and Values of Geoscience Information," as shown by looking at the various segments in the life cycle of the geoscience report. I hope to have presentations from a wide range of viewpoints: the editors' preparation of reports, librarians' access to them, the geologists' use of materials and more. A few speakers are lined up now and more are in sight.

As usual, the Technical and Poster Sessions will be what the GIS members make them. Do you have an idea you'd like to research? A success you'd like to show off? Or, do you just need to get published? In glancing at Lois Heiser's index to the GIS Proceedings (on the GIS homepage) there are lots of topics that need to be updated, especially in light of all the changes these electronic times have caused. Just some ideas:

- the impacts of new technologies (the internet; color illustrations; electronic journals; 3-D illustrations)
- space issues (planning and moving; the "death" of the book: the myth of the all-electronic library)
- user studies (who's using what, and why?; are we meeting our clients' needs?; are we communicating our value to the folks who fund us?)
- preservation (are there new solutions for the old problems?)
- gray literature (has the electronic revolution eased access problems to guidebooks, documents, or proprietary reports?)
- cooperative collection development in the electronic age
 - locally-produced databases
 - non-English materials (updates on use and access in light of journal cancellations?)
 - geoscience librarianship as a profession (publication opportunities and career options)
 - citation analysis in the electronic age
 - bibliographic citation of electronic materials

Contact me if you have any questions or just need to bounce ideas. GSA will be accepting the abstracts electronically, and I'll have the paper abstract forms, too. The abstract deadline is July 8.

MEMBER NEWS

LINDA MUSSER's newest son, Zachary Samuel Musser, was born on November 12th (6 lbs, 15 oz, 20 inches). Linda will be back at Penn State part-time after the first of the year, but for now signs herself "Sleepless in Central PA."

Geoscience Information Society Executive Board Meeting October 27, 1996 Denver, CO

DRAFT MINUTES

The meeting was called to order by President Nancy Blair at 9:00 am.

REPORTS

Treasurer Sally Scott reported on the Society's finances. Income is down a little over projections because GIS now has fewer members and because of the delay in the publication of the Directory of Geoscience Libraries.

Vice-President Barbara De Felice reported on final arrangements for the annual meeting activities. J. Larud has arranged for a bus to transport members to the reception at the Colorado School of Mines. Announcements for the Digital Database Forum were placed at the handout table at the GSA registration area. She announced two last minute changes: Julia Triplehorn had to pull out from the poster session due to illness, Barbara Buttonfield will give a paper instead of Suzanne Larsen, and Daniel Karnes will give a paper instead of Robert Brackenridge.

April Love reported on the Exhibits Committee. She stated that GIS will need to purchase new crates to transport the GIS exhibit. A discussion followed concerning problems involved in shipping the exhibit and possible future logistical complications in shipping the exhibit to Toronto in 1998.

Connie Manson reported for the Ad Hoc Committee on the Directory of Geoscience Libraries: 5th Edition. She stated that Ian Gordon is doing some final editing for Canadian Libraries. It has been suggested that the Directory be placed on the GIS website, but she expressed concerns that this would deprive GIS of a money-maker. A discussion followed concerning what should be on our website. The issue was tabled for later discussion.

L. Blair initiated a discussion concerning the Ad Hoc Committee on the Union List of Geologic Field Trip Guidebooks and its product, the Union List. She asked if GIS wants to continue the List and does it need to be a union list with individual library holdings. In the discussion that followed the following issues were raised: non-necessity of a union list with the availability of Cataloging Utilities like OCLC; lack of in depth cataloging for individual volumes which may contain multiple guides; the utility of the project for ensuring that guidebooks get added to GEOREF; the possibility of placing the project (without the union list) on the Web since it is not a money-maker for either AGI or GIS and where it would be possible to update it; and the possibility of a CD-ROM to be revised annually (AGI seems to be moving in this direction). It was agreed that the issue of the need for a union list should be brought to the membership and that a new Ad Hoc committee, with AGI representation, should

explore ways for producing the List cheaper, faster, and more efficiently.

Barbara Haner, representative to the AGI Member Council, announced that the agenda for the October 28 Member Council Meeting includes education and the AGI web server. It was suggested that at the meeting B. Haner express concerns about proposed USGS plans to stop printing and storing topographic maps.

Reggie Brown and Mary Scott reported on the Educational Initiatives Committee. They need committee members to work on a project that will compile a list of earth science books for public libraries. They also reported that the Eisenhower Clearinghouse for Mathematics and Science wants to create a list of earth sciences websites suitable for the lower grade levels.

L. Blair reported for Claren Kidd on the activities of the International Issues Committee. She stated that Claren wants money to ship books overseas. The members present expressed concerns about the very high costs of shipping books overseas. The board agreed that GIS should investigate the possibility that other organizations, such as the USIA, might be willing to pay shipping costs. It was also suggested that GIS donate subscriptions of the GIS Newsletter to needy libraries.

B. Haner reported on GEOINFO VI. Scandinavian librarians are no longer interested in sponsoring it. Fred Spilhaus has invited GIS to hold GEOINFO VI in conjunction with the international meeting planned by the Society of Earth Science Editors, the International Association of Earth Science Editors, and the Society of Biology Editors. It will be held September 12 to 14, 1998 at the Marriott Hotel in Washington, DC. Another possibility that has been discussed is the Australian offer to hold the conference in the year 2000 just before the Olympics. It was agreed that the 1998 Washington meeting seemed like the best possibility for the next GEO-INFO, especially if it is considered desirable to retain the every four year schedule. It was decided to ask the membership for a vote of preference (Washington 1998 vs. Australia 2000) from those who might go.

Carol La Russa reported on recruiting new GIS members. Ideas discussed included: more follow-up with the institutions of former members; more phone calls; contacting GEONET-L subscribers; annual revision of brochures; and contacting library schools.

Connie Manson, Newsletter Editor, announced that Mary Frances Lembo as volunteered to take over the editorship of the GIS Newsletter. The December issue will be Connie's last. N. Blair said we still need a Newsletter Reviews Editor.

Linda Musser reported on the activities of the Preservation Committee. She presented the action plan the committee has completed. It was decided to pass out the plan at the business meeting for approval by the membership.

Vivienne Roumani-Denn, chair of the Ad Hoc Committee on the GIS Website, stated that she hopes to

expand the website to make it more of a reference tool with more links to publishers, selected library catalogs, and government agencies with data publications. It was suggested that the Preservation Action Plan Report, serials pricing information, field trip guidebook guidelines; more GIS award information (including a picture of the first Mary Ansari Best Reference Book Award presentation), a summary of this year's Society activities, and extracts from Newsletter be placed on the website.

NEW BUSINESS

L. Blair led a discussion on proposed changes to the form and content of USGS 7.5-minute topographic maps. A summary of the changes prepared by Don Haney, Chairman of the Association of American State Geologists, Committee on Topographic Mapping was handed out. Proposed changes include: 1) Topo contours will no longer be revised, except in cases where specifically requested and funded by individual states. The possibility of completely omitting contours from the printed maps has also been discussed. 2) Woodland areas shown by green overprint, will not be revised. 3) Buildings will no longer be classified as to type: no distinction will be made between houses, barns, schools, etc. 4) Urban areas will be indicated by a gray tint, and most individual buildings and landmarks will not be identified. 5) The level of content, particularly for features requiring field verification will be reduced. 6) The quality of print produced from digital maps is generally poor, and the maps are difficult to read. Also the USGS is proposing that digital data for hydrography (streams and lakes), transportation (roads), boundaries (state and county lines), public land survey, elevation (digital elevation models, not contours) be revised and maintained in electronic format. The remaining map information (contours, vegetation, man-made features) would not be maintained. Members present expressed concerns regarding lack of widespread availability of high-level equipment needed to access digital mapping information, the water-soluble inks used for on-demand printing of maps, archival problems, and degradation of content. It was agreed the Society should take action on this situation and that several members would draft a resolution for the approval of the membership at the business meeting. It was also agreed that GIS and individual members should send letters to members of Congress who serve on relevant committees. C. Manson reported that the USGS intends to get rid of its stockpile of maps warehoused in Denver. It might turn them over to state surveys who probably don't have room to store them.

A discussion on proposed GPO changes followed the USGS discussion. GPO proposes cut backs in its depository program. Many items would only be available in electronic format and would require expensive equipment and expertise to display. Attendees were concerned many users, such as the mining industry, are not ready for such a massive change. It was agreed that GIS should prepare

a similar response to the USGS one, but that it should not be too negative about electronic formats because some users, such as many university-based ones, want and need information in electronic formats.

The meeting was adjourned at 11:55.

Members present: Nancy Blair, Reggie Brown, Glenn Cook, Barbara De Felice, Marie Dvorzak, Barbara Haner, Steve Hiller, Mary Krick, Carol La Russa, April Love, Dorothy McGarry, Connie Manson, Linda Musser, Vivienne Roumani-Denn, Mary Scott, Sally Scott.

Respectfully Submitted

Carol La Russa, Secretary

**Geoscience Information Society
Annual Business Meeting
October 28, 1996
Denver, CO**

DRAFT MINUTES

President Nancy Blair began the meeting by introducing the current GIS officers. The minutes from the 1995 business meeting were approved as published in the Newsletter.

OFFICERS REPORTS

Secretary Carol La Russa reported that GIS membership is down from 239 to 217.

Treasurer Sally Scott announced that she can reimburse members for GIS expenses at the meeting. She needs budget requests from officers and committee chairs. It was pointed out that in the financial report expenditures for the GEOINFO V proceedings were mistakenly entered under the GIS Proceedings heading.

Publications Manager Lois Heiser apologized for the late arrival of the membership directory. It was delayed because she had hoped to mail it with the 1995 proceedings which were completed later than expected. Fifty copies both volumes of the GEOINFO V proceedings will be available. GIS members will have first priority to purchase them. Members who spoke at the meeting should already have received the volumes.

Incoming GIS officers Connie Manson (Vice-President) and Lisa Dunn (Secretary) were introduced followed by introduction of members and visitors.

ANNOUNCEMENTS

Joanne Lerud made announcements concerning arrangements for the reception at the Colorado School of Mines Arthur Lakes Library and for Thursdays field trip.

Barbara De Felice announced that the GIS reception would be held tonight at the Hyatt and that the GIS Luncheon was sold out. She asked to be informed about any meeting room problems. She announced two last minute program changes: Julia Triplehorn had to pull out from the poster session due to illness, Barbara Buttonfield

will give a paper instead of Suzanne Larsen, and Daniel Karnes will give a paper instead of Robert Brackenridge. GIS papers were included in the GSA Highlights. She asked GIS members to complete the GSA meeting survey as some questions apply to GIS activities.

Nancy Blair announced for Exhibits Chair April Love that volunteers are needed for the GIS booth. She also stated that GIS will need a place in Canada to store the exhibit for the 1998 Toronto meeting.

Announcements for meetings were made for the following groups: Pacific Section, CIC, Calgeo, and International Issues Committee.

REPORTS

Connie Manson reported for the Ad Hoc Committee on the Directory of Geoscience Libraries. The directory is making solid progress and is undergoing last minute editing of the Canadian section. She thanked the Committee for their hard work.

Vivienne Roumani-Denn reported for the Ad Hoc Committee on the GIS Website. She lead a discussion concerning expansion of the Website. She would like to see it become more of a reference site rather than just a source of information about the Society. Ideas for the site included: links to catalogs of libraries with strong geoscience collections, such as the UC MELVYL catalog; links to earth sciences guides; links to appropriate government agency and society sites; and more information about GIS awards. It was suggested that issues or selected articles from the newsletter be placed on the site. Concerns were expressed about the possible difficulty in maintaining the links in an expanded site. It was proposed that the Membership Directory be placed on the site. The consensus was that the Membership Directory should only be place on a closed site for members only. The group also discussed placing the Directory of Geoscience Libraries on the website. Concerns were raised about possible loss of sales; the previous edition made a \$5000 profit for the Society. A counter-argument was that the Directory could be updated regularly. No decision was reached on this issue.

Barbara Haner reported on the AGI Member Council meeting she attended that morning. She announced that AGI now has twenty-nine member societies and that AGI's finances are in good shape. Also the fourth edition of the Glossary of Geology will be out in December. Geotimes will have fewer special subject-oriented issues. B. Haner passed on to the Council the information GIS received about possible changes in GPO depository practices and format of USGS topographic maps. The Council discussed the possible desirability of a master list of all members of AGI member societies. Another possibility is a catalog of all AGI member society publications. AGI is considering producing customized subsets of GEOREF for individuals.

Marie Dvorzak reported that the AGI Government

Affairs Program Committee would not meet until tomorrow and to contact her if anyone has any issues she should bring up at the meeting.

Claren Kidd reported on the activities of the International Issues Committee. She has been trying to facilitate the matching of donors of library materials with potential recipients in third world countries. She will discuss the issue at the GSA International Committee meeting.

Connie Manson, chair of the Annual Program Committee for 1997, reported plans for next year's symposium. Two possible themes are: cost and value of geoscience information and the cycle of geoscience information.

Connie Manson, as editor of the Newsletter, announced that Mary Frances Lembo will be taking over the editorship with the February, 1997 issue.

R. Spohn reported that the next meeting of the Western Association of Map Libraries will be April 16 to 19, 1997, in Tempe, Arizona. Jim O'Donnell announced that the September 1997 meeting will be in Pasadena.

Reggie Brown and Mary Scott reported on the activities of the Educational Initiatives Committee. The Eisenhower Clearinghouse for Mathematics and Science at Ohio State University is looking for the addresses of earth sciences websites that would be of interest to K-12 students and teachers. They want the URL and an evaluation for each site. Mary Scott asked if GIS would be interested in participating in this project. The Committee is involved in preparing a list of earth sciences publications that would be useful for public libraries.

NEW BUSINESS

Carol La Russa reported on ideas to increase GIS membership. Ideas discussed included: more follow-up with the institutions of former members; more phone calls; contacting GEONET-L subscribers; annual revision of brochures; and contacting library schools. Other ideas suggested by the membership included contacting geology clubs at colleges and universities and using the Directory of Geoscience Departments to locate possible members. The need for personal contact with potential members was emphasized. Also a new membership brochure is needed. The ideas were referred to the Membership Committee.

The next topic for discussion was GEOINFO VI. Barbara Haner gave a history of the event that has taken place every four years since 1978. The organization for the event is very loose and there has been some difficulty finding a sponsor for the next one scheduled for 1998. French and Scandinavian expressions of possible interest fell through. B. Haner brought two proposals for the membership. The first proposal is to meet in 1998 in conjunction with the already planned meeting of the Association of Earth Science Editors, the International Association of Earth Science Editors and the Council of Biology Editors. The meeting is to be held September 12-14, 1998, in Washington, DC at the Marriott Hotel. Double rooms will cost \$135. GEOINFO attendees would

be able to attend the editor's sessions or hold separate meetings. GEOINFO has previously held meetings with the Association of Earth Science Editors. The second proposal has come from the Australians who propose to hold the meeting in 2000 in Canberra, just prior to the Olympics. Thirty members were interested in the first proposition; thirteen in the second. In the discussion that followed it stated that the British would support meeting with the editors. Also the Australians would probably consider holding the meeting in 2002. Several members who have had contact with the editors said that they share many concerns with librarians and that it would be useful for both groups to have contact with each other. It was decided by voice vote to support the 1998 Washington, DC option.

Linda Musser reported on the Preservation Committee's recently completed Preservation Action Plan. Its purpose is to kick start some actual preservation action by GIS. She asked for comments from the membership regarding the plan. She suggested that subcommittees with doable goals be created to break the project into manageable bits. The overall goal is to heighten awareness of the magnitude of the problems involved in preserving geoscience materials. There will be a trial preservation project for geoscience materials at Pennsylvania State University to get a preliminary idea of costs. Discussion followed concerning how large the subcommittees should be (would vary with the difficulty of the task). There was question whether a subject-based approach to preservation was the best considering this is a problem for all paper-based collections. L. Musser replied that historically preservation has happened on a subject basis. Also the special problems of geosciences materials (format, color illustrations) lead to their elimination from many preservation projects. It was pointed out that there is a need for all possible approaches and funding sources. John Mulvihill indicated that AGI through its foundation may be willing to cooperate with member societies for projects such as this. An application should come from GIS as group and should be sent as soon as possible. L. Musser asked for and received a vote of approval for the action plan.

Beverly Chen announced the merger of the Canadian Geoscience Information Centre and the Geomatics Information Centre to form the Earth Sciences Information Centre (ESIC). It has a home page (http://www.nrcan.gc.ca/ess/esic/esic_e.html) and provides a variety of services including reference and document delivery.

Linda Blair stated that a sub-group of members who attended the October 27 Executive Board Meeting had met to put together a resolution regarding the proposed changes to USGS and GPO publications to electronic formats but decided they did not have enough time to do so. They put together a general framework which said that GIS is concerned about the move of the federal government to electronic formats before the technological means to access the data are available to all users. Nancy Blair

asked if the membership supported this position. It was approved by voice vote. GIS should write letters and publicize its concerns.

The next issue Nancy Blair brought to the members was the Union List of Field Trip Guidebooks. She asked if the library holdings are worth keeping. Discussion followed concerning use or non-use for interlibrary loan and the need to market the work better so more geologists would learn of it. Also it was stated that when the committee asks individual libraries for holdings data they often also respond with titles of guidebooks that the committee previously did not know about. This might not happen if the locations were not included. It was decided that it would probably be acceptable to drop the union list (locations) aspect of the list and consider other options besides print to publish it. Lois Heiser felt the issue should go out on GEONET-L before a final decision is made.

Nancy Blair paid tribute to retiring Newsletter Editor Connie Manson for her many years of work on the publication.

Connie Manson reported that the USGS intends to get rid of its stockpile of maps warehoused in Denver. It has approached the American Association of State Geologists with an offer to turn them over to state surveys free if they would distribute them. AASG has requested an inventory from the USGS.

The meeting was adjourned at 5:00.

Respectfully submitted,
Carol La Russa, Secretary

**Geoscience Information Society
Final Executive Board Meeting
October 30, 1996**

DRAFT

Meeting attendees:

Barbara DeFelice, President
Nancy Blair, Past President
Connie Manson, Vice President/President Elect
Carol La Russa, Secretary (outgoing)
Lisa Dunn, Secretary (incoming)
Sally Scott, Treasurer

1. Report from the President on the 1996 conference:

DeFelice reported that on the whole the conference was a success. Manson mentioned that the only major complaints she received were about meeting room size. There was some discussion about the Database Forum: donations appear to be cover the costs at this time. For next year the organizers should consider having refreshments brought in at the break instead of at the start of the Forum to discourage people from leaving early. Catering costs were high in Denver, estimated at \$80-90/person. Donations from vendors didn't cover this cost and GIS

should more aggressively seek vendor donations in the future.

2. Report from the President on committees:

a) International Issues Committee, Subcommittee on International Geoscience Information Meetings-- DeFelice said that the International Issues Committee would accept the formation of this subcommittee. This group has agreed to plan a GeoInfo VI meeting in Washington DC, September 1998, with other interested organizations: Association of Earth Science Editors (AESE), the International Earth Science Editors (IESE), and the Council of Biology Editors (CBE), and others. Blair volunteered her name as a liaison to the USGS for field trips, etc. DeFelice said that a formal write-up will go out to the membership. We will also be looking for support from international mining companies to fund attendance from overseas. Another possibility is a librarian international exchange program. Manson suggested that a mining company could fund a librarian to do an internship. DeFelice stated that \$2,000 in GIS funds are committed to GeoInfo VI.

b) Membership Committee-- Jim ODonnell has agreed to chair this committee and will submit a budget. He liked many of the ideas that came up in the members Business Meeting. It was agreed that a new membership brochure is a high priority.

c) Preservation Committee-- The members at the business meeting agreed to accept the Preservation Proposal. Linda Musser will be forming her own subcommittees to implement it, rather than going through the formal GIS committee structure.

d) Ad Hoc Committee on the Future of the Union List of Field Trip Guidebooks-- The committee is looking into electronic publishing alternatives. DeFelice would like to be informed if anyone expresses interest in this project.

In related discussion: Scott brought up the possibility of appointing a publicity officer. Blair said that she had Dena Hansons files on publicity and that they were useful. La Russa volunteered to send out publicity releases if she is given the appropriate addresses.

Scott suggested that the position of auditor should alternate (every two years) with that of the treasurer, and wanted to know if we could get the current auditor to complete three years to set up the cycle. DeFelice agreed with this, commenting that there was a huge learning curve and that this would give those involved more time.

3. Report from the Vice President on the 1997 conference plans:

Manson provided a hand out, The Costs and Values of Geoscience Information [attached] to direct discussion on the conference theme. The idea was to present a balance of points of view revolving around this theme. It was agreed that this could result in a good symposium proceedings, and would also provide a setting for the technical session and for poster sessions. There was general discussion on paper topics, and names of possible invited presenters were brought up. Manson mentioned specifi-

cally the importance of involving industry end users in the information cycle presentation, but that publishers, consultants and information brokers also needed to be included. This theme would serve the purpose of educating members and of promoting geoscience information and those who create and manage it.

Scott commented that GIS has had more poster sessions in the past. There was agreement on this, but that some topics don't necessarily suit poster sessions. DeFelice pointed out that sometimes the theme has to be loosely defined enough to accommodate members ongoing projects and interests.

4. Report on the newsletter:

Manson reported that she has a candidate for the next newsletter editor: Mary Francis Lembo of University of New Orleans. She has the equipment and the resources to address the job. Manson agreed to do the December issue of the newsletter, working closely with Lembo to familiarize her with the process. DeFelice expressed some concerns over the possibility of significant changes in the newsletter format. Manson responded that there was some editorial license involved in the process, and that she would send Lembo representative back issues of the newsletter to give her a history of its evolution. DeFelice said that any major changes in the newsletter should be discussed with the Board. It was generally agreed that the newsletter editor serves at the will of the Board.

Manson will discuss with Lembo some of the logistics of submissions, and proposed that the Board move up the submission deadlines for this year. Deadlines for Newsletter Submission--

| Issue | Deadline |
|--------|-----------------|
| Dec 96 | Nov 20 |
| Feb 97 | Jan 15 |
| April | Mar 14 |
| June | May 15 |
| Aug | to be announced |
| Oct | Sept 17 |

5. GIS Website:

Recommendations for this year:

- * Mount nothing on the web that currently gives us income.
- * We can open a secure site just for members, but that information has to be thoroughly disseminated amongst the membership.
- * Do put links to non-profit publishers websites (government, society, etc.).
- * Commercial publishers should become institutional members of GIS if they want links to their websites, as per Dunns suggestion. Dont link commercial publishers websites to ours without their having a GIS institutional membership.
- * The Careers in Geosciences publication needs to be updated, and can be put on the web if someone will take that responsibility.
- * GIS committee reports can be posted on the web, but

they are already in the electronic newsletter. The Board wouldn't bother.

* A Word from the President message can be placed on the home page. This can be pulled off the membership brochure or done in tandem with a new membership brochure. The Board had some question on whether this meant excerpts from the newsletters Presidents column, and needs some clarification from Vivienne Roumani-Denn.

* Our site should include more information on the GIS awards and their guidelines. DeFelice will send this information to the Website Committee.

6. Government Issues:

The wording of a response to some proposed federal government policies [USGS and GPO] on information handling was referred back to the Board by the membership at the Business meeting. DeFelice said that she would prefer to comment on the specific issues rather than make broad statements about electronic information. Blair said that institutions could pass comments along to her but that because of her position in the USGS she would rather abstain from formal participation. Manson will draft a couple of response letters and get them to DeFelice for review.

In related discussion: Blair was approached by SEPM with a request to exchange society mailing lists, with SPEs intent of distributing publication announcements. La Russa suggested that SPE purchase the mailing list as others do. DeFelice will respond to SPE with that suggestion. Dunn will be sent contact information from the exhibit booth for those who expressed interest in joining GIS.

7. Name change for GIS:

[This topic was discussed briefly prior to the start of the Board meeting. There was general consensus that there was not enough interest within the Board to pursue a name change through a lengthy membership approval process. Problems that arise due to acronym confusion in the GSA program can be dealt with on a case-by-case basis. Example: Use an abbreviation instead of the acronym in the GSA program for the GIS awards luncheon to clarify things to those interested in geographic information systems.]

8. Special awards.

[Editor's note: We don't want to ruin the surprises. Stay tuned.]

9. AGI proposals for GIS input:

GeoList Directory
Member societies combined publications catalog
Customized databases

The Board felt that it did not have enough information about these proposals to act. DeFelice will get more information and distribute it to Board members for later action.

10. Conference call:

DeFelice said that conference call dates will be announced later. Blair offered to arrange the next conference call and get the relevant information to DeFelice. There will be a conference call in January to address

budget proposals. Scott would prefer that it be later in January. There is also usually a conference call in August, addressing the upcoming annual meeting. DeFelice would like to do some of that decision making by e-mail. There was discussion on who else to include in conference calls, for example, the new newsletter editor. Scott reminded the Board that costs will be different for people at different geographic locations. DeFelice said that if Claren Kidd has a lot of issues for the International Committee, she will need to participate as well.

11. Other agenda items:

Gaps in committee appointments? DeFelice said that assignments are being made and people have expressed strong interest in committees with gaps. Blair said that Barbara Haner appointed the nominating committee last year. Blair would like to do the same, and she has some candidates in mind already. DeFelice should have a list of committee members in the February newsletter if possible. Program Committee? Manson has some names already, including a local [Salt Lake City] person. She may be looking for volunteers to review abstracts, etc. GeoRef Advisory Council? It appears that GIS will be nominating some people to this committee, but this issue is still undecided. Publications Committee? DeFelice said that Lois Heiser will again be doing Publications.

The meeting was adjourned.

Respectfully submitted,

Lisa G. Dunn, Secretary

ANNOUNCEMENTS and PUBLICATIONS

The GeoInfo V (Prague 1994) Proceedings, in 2 volumes are now available. The Society has a limited number of copies of these proceedings and are thus first being offered to GIS members at \$45.00. Make the check to Geoscience Information Society and mail it to:

Lois Heiser, GIS Publications Manager
Geology Library, Indiana University
Bloomington, Indiana 47405

LISA DUNN and Deborah Grealy published an article in *Special Libraries* (v. 87(3):169-180) titled "The Industry Information Center Within an Academic Library: A Case Study".

A paleoclimatology slideset is available from:
ATTN: Mildred K. England, Paleoclimatology Program
NOAA / National Geophysical Data Center
Paleoclimatology Division
Dept. 974, E/GC
325 Broadway
Boulder, CO 80303 USA

Susan Klimley recommends the article, "Bibliometrics of the world wide web: An exploratory analysis of the intellectual structure of cyberspace, by Ray. R. Larson, published in the Proceedings of the 59th Annual meeting of the American Society for Information Science, Oct. 21-24, 1996, v. 33, p. 71-78. Klimley noted that the author used bibliometric techniques (like those used in Science Citation Index studies) to look at the web, with examples from earth science web sites.

INTERNET RESOURCES

with contributions from:

Mike Ramsey <ramsey@elwood.la.asu.edu>

There's an excellent article in the September issue (v. 7, no. 9) of *Internet World* magazine on how to cite internet citations. It shows examples of how to cite web pages, newsgroups, email, etc. The article is called "Ciber Citations" by Michael A. Arnzen and appears on page 72 of the magazine and is online at:

<http://www.iw.com/1996/09/cybercitations.html>

It appears that Mr. Arnzen took a lot of his examples from

the Beyond the MLA Handbook site at:

<http://falcon.eku.edu/honors/beyond-mla/>

Others sources for citing electronic materials are given at:

<http://library.lib.binghamton.edu/webdocs/citing.html>

and at:

<http://www.usc.edu/Library/QF/citing.html>

JOB ANNOUNCEMENTS

DIRECTOR OF LIBRARY, Oregon Institute of Technology (Search Reopened), Klamath Falls, OR

Oregon Institute of Technology (OIT) invites applications for the position of Director of the Library.

OIT, located in Klamath Falls, Oregon, is the only accredited four-year public institute of technology in the Pacific Northwest. OIT has over 2,000 students and about 150 faculty offering bachelor degree programs in engineering, health, and management technologies. Recently, a master of science in engineering technology with emphasis in computer engineering technology was added.

The OIT Library features over 100,000 volumes and more than 2,000 periodical subscriptions including a network of 11 CD-ROM databases. The OIT Library has an integrated catalog (Innovative Interfaces) and participates in ORBIS, a union catalog of academic libraries. Staff numbers 13 FTE including five faculty members.

RESPONSIBILITIES: The Director of the Library is the chief administrator of the Library, Learning Resources Center (Academic Support and Media), and the historical archives of the campus. The Director sits on the Provost's staff, the Inter-Institutional Library Council, and other committees. The Director is responsible for leadership and overall management of library planning and development; library financial planning; library services for campus, extension, and community; collection development, acquisitions, and organization; library automation and facilities planning; and library personnel management. The Director represents the college on library and related matters at local, regional, state, and national meetings and to government and corporate agencies.

QUALIFICATIONS: ALA-accredited MLS and four years' progressively responsible administrative and supervisory experience in a four-year academic library required. A clear understanding of the application of information technologies in higher education including distance learning and academic support services, library automation, and budget management are required. The successful candidate will have demonstrated competence in personnel relations, an inclusive leadership style, and excellent interpersonal communication skills. A second masters in a related field is preferred. Additionally, the candidate should be familiar with the current literature in librarianship, engineering, computer sciences, health, business, and technical education.

Salary and rank are competitive and commensurate with qualifications. Applications must be received by November 30, 1996. To apply submit a cover letter, resume, and names, addresses, and phone numbers of three professional references to: Personnel Office, 5F43 Oregon Institute of Technology, 3201 Campus Drive, Klamath Falls, OR 97601

OIT is an Affirmative Action/Equal Opportunity/ADA employer.

ASSISTANT PROFESSOR, SCIENCE & ENGINEERING REFERENCE DIVISION, Tenure Track (three positions available).

Oklahoma State University is a land grant university with an enrollment of 26,000 students on four campuses offering 44 doctoral degree programs. The Library, which contains more than 2.6 million volumes and documents, is a member of the Association of Research Libraries and the AMIGOS Bibliographic Council. It is highly automated with an online catalog (NOTIS) that includes Periodical Abstracts, Newspaper Abstracts, ABI/INFORM and ISI's Current Contents. Searched with NOTIS commands these databases have linked holdings to the Library's collections. Periodical Abstracts and ABI/INFORM are also linked to UMI's Power Pages providing full image articles for 800+ titles. The online catalog provides Z39.50 links to several FirstSearch databases and to other library catalogs. A CD-ROM network provides access to twenty full-text and bibliographic databases. Public Internet workstations are available. The Science & Engineering Reference Division includes the Architecture and Vet Med Libraries and the Map Collection.

RESPONSIBILITIES ALL POSITIONS: Assists in providing reference service including evening and weekend rotations; participates in user education programs; and performs collection management and faculty liaison activities in either biological sciences disciplines (first position), physics, mathematics and chemistry (second position), or in areas related to maps, aerial photography, and GIS (third position). The third position will also supervise the Map Collection staff (1.0 FTE staff and 2.5 FTE student assistants) and will coordinate the Library's GIS efforts in cooperation with other campus groups.

QUALIFICATIONS: Required: ALA-MLS. Excellent communication skills. Ability to work effectively with individuals with diverse backgrounds; demonstrated familiarity with print and electronic government information resources; ability to work well under pressure and to meet deadlines; and a record of providing excellent service. Desired: Three-years post-MLS experience providing STM reference services in an academic or large public library; experience using the Internet in providing reference service; library instruction experience; active participation in state or national professional organizations; related STM degree. Course work or experience with GIS (third position).

SALARY: \$25,000 to \$30,000 for 11 months. Salary and academic rank dependent upon qualifications and prior experience.

BENEFITS: Social security; free health, accident and life insurance; Oklahoma Teacher's Retirement and TIAA/CREF; 11 holidays. Opportunity to work towards advanced degree.

DEADLINE: Review of applications begins October 25, 1996, and continues until the position is filled. For full consideration send letter of application, resume, and the names, addresses, telephone numbers, and e-Mail addresses (if available) of three references to: Mrs. Jackie German, Senior Administrative Associate, Edmon Low Library, Oklahoma State University, Stillwater, OK 74078-1071 or E-mail to: jlg4962@okway.okstate.edu Telephone: (405) 744-6324.

EQUAL OPPORTUNITY/AFFIRMATIVE ACTION EMPLOYER; MINORITIES AND WOMEN ARE ENCOURAGED TO APPLY. SUCCESSFUL APPLICANT MUST COMPLY WITH IRCA.

GOVERNMENT DOCUMENTS/DATA SERVICES LIBRARIAN, University of Tennessee, Knoxville

Appointment rank: Assistant or Associate Professor

Salary: \$27,000 minimum

Available: January 1, 1997

RESPONSIBILITIES: This newly created position offers an exciting opportunity to combine new technologies with traditional documents and reference work. Assesses and plans the delivery of all formats of electronic government documents and the application of digital technology; designs and provides training in the use of electronic government documents to library staff and users; provides government documents reference assistance; maintains government documents home page; works closely with the Social Science Reference Coordinator on the identification, acquisition, and management of data from the Inter-University Consortium for Political and Social Research (ICPSR) and other sources; serves as the official representative to ICPSR; collaborates with library acquisitions and cataloging teams in ordering and processing electronic data files; develops and promotes the use of electronic data files; develops electronic services in collaboration with the Agriculture/Veterinary Medicine Library and the Cartographic Information Center, including the use of Geographic Information Systems (GIS) and software. Reports to the Coordinator, Documents and Microforms. The Documents and Microforms unit is a part of Reference Services in the Hodges Library. The unit is an 82% selective federal depository and one of six Tennessee state depository libraries. Ongoing monthly GPO tape records are included in the OPAC beginning in 1992 and a GPO Access gateway on the Web was established in 1995. Depository map collections are housed in the Cartographic Information Center which also serves as the Earth Sciences Information Center for the state and was a participant in the ARL-GIS project. Department of Agriculture publications are sent to the Agriculture/Veterinary Medicine Library. Library holdings include over 1 million government documents and maps in print, microform, and electronic formats.

QUALIFICATIONS: ALA-accredited MLS; experience or training in government documents; substantial

experience in microcomputer applications in libraries including technical skills related to hardware and software; experience or training in the use of numeric data in electronic format, and the use and application of basic statistics; ability to plan and implement innovative user services; excellent oral and written communication skills. Preferred: Knowledge of UNIX, Windows, LAN, the Internet, GIS, and machine-readable datafiles.

BENEFITS: Librarians at The University of Tennessee, Knoxville have faculty rank and status and are appointed for twelve months. This is a tenure track appointment. Library faculty must meet University requirements for promotion and tenure. Annual leave is accrued at the rate of two days per month and sick leave at the rate of one day per month. Faculty have their choice of a state retirement plan or TIAA/CREF. Non-refundable contributions to either retirement plan are paid for the employee by the University. Group health and life insurance plans are available. Tuition remission is available for all university employees; partial undergraduate tuition remission is available to dependent children and spouses of UT employees.

ENVIRONMENT: The University of Tennessee, Knoxville, a Carnegie Research Level One institution, enrolls approximately 26,000 students from every state in the United States and approximately 100 other countries. As Tennessee's comprehensive campus, UTK offers more doctoral programs than any other institution in the state, and its faculty attract nearly \$80 million annually for sponsored research programs. UTK is one of 27 higher education institutions holding the distinction of being both a land grant institution and state university. The UTK Libraries, with an annual budget of almost \$10 million, holds 2 million volumes and receives approximately 14,000 current serials. The Libraries system includes the John C. Hodges Library and four branches on the Knoxville campus: Agriculture Veterinary Medicine Library, Archives and Special Collections, Cartographic Information Center, and Music. A fifth branch, the Social Work Library, is located in Nashville. Over three hundred and fifty persons are employed, including 50 librarians, 5 exempt, 131 nonexempt, and 169 students. UTK Libraries is a member of SOLINET, the Association of Research Libraries, the Center for Research Libraries, and the Research Libraries Group. The UTK Libraries will install a client server integrated system in 1996. The Libraries also offers a Web based information system and access to a variety of electronic information sources. Additional information about this position and the UTK community can be found on the World Wide Web, URL address: <http://toltec.lib.utk.edu/~lss/search/govdoc.html>

APPLICATION PROCEDURE: Send letter of application, a current resume, and the names, addresses, telephone numbers, and e-mail addresses of three recent references to: Jill Keally, Library Support Services, 1015 Volunteer Blvd., Knoxville, TN 37996-1000, fax 423/974-4696.

Review of applications will begin November 15, 1996, and will continue until the position is filled.

The University of Tennessee, Knoxville, does not discriminate on the basis of race, sex, color, religion, national origin, age, disability or veteran status in provision of educational programs and services or employment opportunities and benefits. This policy extends to both employment by and admission to the University. The University does not discriminate on the basis of race, sex or disability in the education programs and activities pursuant to the requirements of Title VI of the Civil Rights Act of 1964, Title IX of the Education Amendments of 1972, Section 504 of the Rehabilitation Act of 1973, and the Americans with Disabilities Act (ADA) of 1990.

Inquiries and charges of violation concerning Title VI, Title IX, Section 504, ADA or the Age Discrimination in Employment Act (ADEA) or any of the other above referenced policies should be directed to the Office of Diversity Resources & Educational Services (DRES), 1818 Lake Avenue, Knoxville, TN 37996-3560, telephone (423) 974-2498 (TTY available). Requests for accommodation of a disability should be directed to the ADA Coordinator at the Office of Human Resources Management, 600 Henley Street, Knoxville, TN 37996-4125.

INFORMATION RETRIEVAL CONSULTANT, Lehigh University, Bethlehem, PA

INFORMATION RETRIEVAL CONSULTANT, Lehigh University Information Resources. Newly restructured organization seeks Senior Information Retrieval Consultant for the sciences to serve on innovative cross-functional client services team for College of Arts and Sciences. The Science Information Retrieval Consultant selects library and other information resources for the curriculum; performs information retrieval as required by faculty, students and staff; teaches information literacy and research skills; performs searches in science databases; and acts as a liaison to the science faculty of the College. The consultant works in a team environment with computing, communications, instructional technology and other information retrieval professionals under the direction of a team leader. For additional information on environment consult <http://www.lehigh.edu> (Lehigh University home page) and <http://www.lehigh/~inluir/irmain.html> (Information Resources).

QUALIFICATIONS: Require ALA accredited MLS or equivalent. Strongly prefer bachelor's or advanced degree in relevant field (chemistry, physics, biology, earth science). Require excellent oral and written communication skills; ability to work in team environment; understanding of scholarly research and the application of technology to scholarly research; experience with science database searching; proven presentation skills; experience in reference, bibliographic instruction and collection development; ability to deal effectively with organizational

change; commitment to continuous professional development and contribution.

Salary range: \$27,800 - \$37,800. Excellent benefits and vacation. AA/EEO employer, minorities encouraged to apply. Send letter of application, resume, and names, addresses and phone number of three references to: Pam Steigerwalt, Employment Coordinator, Information Resources, 8A East Packer Avenue, Lehigh University, Bethlehem, PA 18015. Deadline for applications: December 15, 1996.

FORTHCOMING MEETINGS

NASA and FEMA are sponsoring the Conference on GIS and Applications of Remote Sensing to Disaster Management, Greenbelt Marriott, 6400 Ivy Lane, Greenbelt, Maryland, USA.

The focus will be on current accomplishments and future potential for the use of satellite remote sensing for natural disaster management at global, national, and local levels. Objectives are to define current and future information requirements which can be satisfied through GIS and models by observations from space and methods for effective information dissemination to the disaster management practitioner. Invited and contributed presentations, panel discussions and commercial displays.

For more information, contact Sandie Jones, (301) 220-1701, fax: (301) 220-1704, email: sjones@pop200.gsfc.nasa.gov, World Wide Web: http://ftpwww.gsfc.nasa.gov/ndrd/GIS_conference.html

GEOSCIENCE SERIAL PRICES
 compiled by
 Michael M. Noga
 Collection Development Issues Committee

This list is a sample from my serials database. The prices come from invoices, publishers' price lists, serial vendor catalogs, and journal issues. Prices vary depending on the subscription source and the time that subscription is paid. Prices for other titles will be published in the next GIS Newsletter.

Serials are included in this list if they fit two criteria: 1) The subject fits broadly in the geosciences; and 2) there is sufficient price information.

The latest title of each journal or serial is used.

PRICES IN US DOLLARS

| | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 |
|---|-------|------|------|------|------|------|
| AAPG Bulletin..... | 135 | 135 | 135 | 135 | 140 | 140 |
| AAPG Explorer..... | 30 | 30 | 45 | 50 | 50 | 50 |
| American Journal of Science..... | 90 | 90 | 115 | 125 | 135 | 148 |
| American Mineralogist..... | 200 | 225 | 250 | 270 | 295 | 320 |
| Annales Geophysicae..... | 531 | 721 | 597 | 675 | 943 | 1124 |
| Antarctic Science..... | 151 | 156 | 164 | 178 | 236 | 264 |
| Applied Geochemistry..... | 232 | 300 | 300 | 329 | 385 | 430 |
| Arctic and Alpine Research..... | 70 | 70 | 75 | 75 | 80 | 90 |
| Australian Journal of Earth Sciences..... | 225 | 290 | 325 | 349 | 385 | 513 |
| Basin Research..... | 168 | 209 | 190 | 208 | 269 | 340 |
| Biogeochemistry..... | 444 | 598 | 542 | 628 | 830 | 874 |
| Bulletin of Volcanology..... | 306 | 470 | 477 | 508 | 558 | 596 |
| Canadian Journal of Earth Sciences..... | 326 | 335 | 365 | 398 | 455 | 510 |
| Canadian Mineralogist..... | 150 | 195 | 250 | 280 | 295 | 310 |
| Catena..... | 299 | 332 | 363 | 551 | 704 | 787 |
| Chemical Geology..... | 1164 | 1447 | 1626 | 1814 | 2261 | 2444 |
| Chemie der Erde..... | 122 | 138 | 163 | 166 | 208 | 314 |
| CIM Bulletin..... | 125 | 125 | 135 | 150 | 150 | 150 |
| Clay Minerals..... | 150 | 150 | 150 | 155 | 155 | 155 |
| Clays and Clay Minerals..... | 125 | 135 | 140 | 145 | 165 | 185 |
| Climate Dynamics..... | 239 | 374 | 922 | 572 | 1053 | 1124 |
| Computers & Geosciences..... | 933 | 938 | 930 | 1006 | 1177 | 1355 |
| Continental Shelf Research..... | 535 | 713 | 760 | 842 | 1010 | 1162 |
| Contributions to Mineralogy and Petrology | 1647 | 2043 | 2174 | 2236 | 2796 | 2707 |
| Cretaceous Research..... | 235 | 330 | 383 | 465 | 449 | 540 |
| Deep Sea Research pt. I & II..... | 1301* | 1644 | 1565 | 1759 | 2099 | 2431 |
| Earth and Planetary Science Letters | 984 | 1352 | 1456 | 1743 | 2168 | 2333 |
| Earth Moon and Planets..... | 682 | 925 | 880 | 984 | 1166 | 1228 |
| Earth Science Reviews..... | 350 | 430 | 439 | 454 | 579 | 648 |
| Earth Sciences History..... | 30 | 50 | 55 | 50 | 50 | 50 |
| Earth Surface Processes & Landforms. | 425 | 565 | 635 | 725 | 950 | 1175 |
| Eclogae Geologicae Helvetiae..... | 321 | 379 | 374 | 373 | 467 | 505 |
| Economic Geology..... | 105 | 115 | 132 | 132 | 132 | 132 |
| Engineering Geology..... | 506 | 608 | 650 | 696 | 592 | 704 |
| Environmental Geology..... | 219 | 337 | 344 | 359 | 404 | 597 |
| Eos..... | 190 | 205 | 225 | 230 | 295 | 315 |
| Episodes..... | 24 | 24 | 24 | 24 | 24 | 24 |
| Evolution..... | 150 | 160 | 160 | 160 | 160 | 160 |
| First Break..... | 374 | 410 | 399 | 442 | 505 | 505 |

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|---|------|------|------|------|------|------|
| Geobios..... | 170 | 170 | 170 | 170 | 170 | 170 |
| Geochimica et Cosmochim. Acta.... | 670 | 775 | 895 | 1000 | 1150 | 1295 |
| Geoderma..... | 575 | 783 | 1003 | 1172 | 1482 | 1667 |
| Geological Journal..... | 235 | 265 | 295 | 345 | 395 | 475 |
| Geological Magazine..... | 220 | 249 | 263 | 282 | 298 | 312 |
| Geological Society of London Journal..... | 487 | 441 | 524 | 524 | 571 | 617 |
| Geologische Rundschau..... | 189 | 337 | 317 | 331 | 398 | 441 |
| Geologists' Association Proceedings..... | 140 | 129 | 134 | 140 | 149 | 161 |
| Geology..... | 140 | 150 | 150 | 170 | 170 | 350 |
| Geology Today..... | 165 | 195 | 172 | 190 | 217 | 234 |
| Geo-Marine Letters..... | 157 | 202 | 202 | 235 | 318 | 350 |
| Geomorphology..... | 238 | 423 | 594 | 639 | 814 | 1185 |
| Geophysical Journal International..... | 845 | 970 | 872 | 972 | 1037 | 1043 |
| Geophysical Prospecting..... | 335 | 362 | 369 | 406 | 464 | 501 |
| Geophysical Research Letters..... | 480 | 498 | 590 | 590 | 780 | 826 |
| Geothermics..... | 356 | 409 | 425 | 500 | 573 | 628 |
| Geotimes..... | 25 | 35 | 35 | 35 | 37 | 37 |
| Global Biogeochemical Cycles..... | 135 | 148 | 185 | 185 | 270 | 275 |
| Global Environmental Change..... | n/a | 185 | 208 | 246 | 303 | 368 |
| GSA Bulletin..... | 170 | 185 | 185 | 205 | 205 | 350 |
| Int Journal of Rock Mechanics & Mining Sci. | 953 | 1197 | 845 | 976 | 1249 | 1419 |
| Israel Journal of Earth Sciences..... | 70 | 95 | 160 | 160 | 185 | 200 |
| Journal of African Earth Sciences..... | 607 | 595 | 676 | 723 | 875 | 984 |
| Journal of Applied Geophysics..... | 186 | 212 | 417 | 447 | 585 | 704 |
| Journal of Atmospheric & Solar-Terres Phys. | 1144 | 1279 | 1245 | 1319 | 1654 | 2014 |
| Journal of Foraminiferal Research..... | 80 | 80 | 80 | 80 | 80 | 80 |
| Journal of Geochemical Exploration..... | 718 | 701 | 633 | 742 | 988 | 1139 |
| Journal of Geodesy..... | 245 | 332 | 357 | 409 | 456 | 540 |
| Journal of Geodynamics..... | 408 | 447 | 455 | n/a | 629 | 741 |
| Journal of Geology..... | 63 | 78 | 78 | 78 | 86 | 86 |
| Journal of Geomagnetism & Geoelectricity... | 330 | 368 | 425 | 455 | 475 | 495 |
| Journal of Geophysical Research..... | 2555 | 2800 | 3065 | 3510 | 3970 | 3970 |
| Journal of Geoscience Education..... | 33 | 33 | 33 | 33 | 33 | 33 |
| Journal of Marine Research..... | 60 | 80 | 90 | 90 | 100 | 100 |
| Journal of Metamorphic Geology..... | 320 | 395 | 435 | 475 | 495 | 530 |
| Journal of Paleontology..... | 99 | 99 | 99 | 99 | 99 | 99 |
| Journal of Petrology..... | 292 | 273 | 295 | 350 | 380 | 525 |
| Journal of Quaternary Science..... | 235 | 255 | 295 | 345 | 495 | 575 |
| Journal of South American Earth Sciences... | 224 | 266 | 255 | 254 | 414 | 467 |
| Journal of Southeast Asian Earth Sciences.. | 392 | 513 | 490 | 485 | 859 | 663 |
| Journal of Structural Geology..... | 432 | 618 | 640 | 708 | 835 | 936 |
| Journal of Volcanology & Geothermal Researc | 636 | 965 | 1139 | 1178 | 1500 | 1635 |
| Lithos..... | 209 | 339 | 529 | 551 | 723 | 796 |
| Marine Chemistry..... | 657 | 855 | 867 | 919 | 1183 | 1348 |
| Marine Geology..... | 984 | 1352 | 1385 | 1481 | 2049 | 2316 |
| Marine Geophysical Researches..... | 226 | 308 | 385 | 461 | 585 | 637 |
| Marine Micropaleontology..... | 334 | 434 | 444 | 473 | 585 | 889 |
| Marine Pollution Bulletin..... | 326 | 447 | 430 | 462 | 589 | 656 |
| Mathematical Geology..... | 395 | 425 | 455 | 462 | 525 | 555 |
| Meteoritics & Planetary Science..... | 110 | 150 | 210 | 220 | 230 | 265 |
| Mineralium Deposita..... | 242 | 419 | 455 | 462 | 652 | 702 |
| Natural Hazards..... | 207 | 282 | 288 | 329 | 413 | 428 |
| Northeastern Geology & Environmental Sci. | 38 | 40 | 52 | 52 | 58 | 59 |
| Ore Geology Reviews..... | 236 | 310 | 306 | 342 | 445 | 519 |
| Organic Geochemistry..... | 1048 | 618 | 700 | 1185 | 1646 | 1807 |
| Palaeogeography, Palaeoclim, Palaeoecology. | 1251 | 1587 | 1539 | 1809 | 2470 | 2528 |

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|---|------|------|------|------|------|------|
| Palaios..... | 95 | 115 | 120 | 128 | 147 | 165 |
| Paleobiology..... | 65 | 65 | 65 | 65 | 65 | 65 |
| Paleoceanography..... | 180 | 195 | 215 | 270 | 275 | 280 |
| Physics and Chemistry of Minerals..... | 768 | 832 | 814 | 883 | 1127 | 1173 |
| Physics of the Earth & Planetary Interiors. | 1028 | 1274 | 1317 | 1370 | 1683 | 1826 |
| Planetary and Space Science..... | 859 | 1416 | 1355 | 1431 | 1718 | 1926 |
| Precambrian Research..... | 759 | 1038 | 1219 | 1244 | 1592 | 1741 |
| Quaternary International..... | 227 | 262 | 250 | 373 | 438 | 563 |
| Quaternary Science Reviews..... | 472 | 599 | 575 | 619 | 724 | 798 |
| Remote Sensing of Environment..... | 598 | 796 | 908 | 1159 | 1236 | 1398 |
| Scottish Journal of Geology..... | 138 | 102 | 114 | 119 | 126 | 136 |
| Sedimentary Geology..... | 819 | 1004 | 1187 | 1348 | 1686 | 1944 |
| Sedimentology..... | 385 | 474 | 434 | 479 | 546 | 588 |
| Seismological Research Letters..... | 20 | 20 | 20 | 85 | 85 | 85 |
| Seismological Society of America Bulletin.. | 125 | 125 | 135 | 135 | 260 | 260 |
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