



GEOSCIENCE  
INFORMATION  
SOCIETY

# newsletter

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## PRESIDENT'S COLUMN

A spanking fresh new year to continue our commitments to the geoscience communities we serve. One of the ways we do this is to reach around the globe to share our knowledge and expertise, to work within the society's committees to further the understanding of our work. Like most librarians, we enjoy this, and so I have tried to add new members to our on-going committees. They will work side-by-side (mostly in electronic mode) with those who have led both the organization and the committee.

While it is time for the GIS committees to be announced I am as usual behind the eight ball, and thus some are not yet set. Those which are filled will be found listed elsewhere in this issue. I am very pleased that Connie Manson, concluding her executive duties of Past-President, has agreed to serve once more as Newsletter Editor. But we will miss Miriam Sheaves' Reviews Column. Carol Larussa is going to fill these shoes and I look forward to her comments. Connie Manson will be glad to receive your contributions of articles, observations from attendance at other conferences, and anything else you think would be of interest to the society members. [Don't forget, of course, to send speedy messages to GEONET-L. Carolyn Laffoon has been doing a great job moderating our list.]

The Ad-Hoc Committee on Career Information, under the direction of Barbara Haner, has completed its assign-

ment. A new brochure has been designed and it should be available to you soon. It is truly amazing how the delivery of geoscience information and the employment opportunities have changed over the past ten years. Who would have thought that things called Web Design and HTML would become a part of our vocabulary. There is also a new Membership brochure which we ask you to send on to anyone you think should be a part of the Geoscience Information Society.

During the past year we have been reminded of the fragility of the library world and our obligations to preserve the written record. The USGS library appreciated our very vocal support, and we must continue to keep everyone aware of the importance of the people and holdings of that collection. During our meeting in Denver, we were reminded of the need to preserve archival materials as well. We must not lose the papers, photographs and field notes of working geologists and researchers.

One of the important roles of the society is maintaining the Union List of Field Trip Guidebooks, and we should get back on track with that project. Now that it is an on-line resource, it should be as current as last weeks' trips. But it is our responsibility to see that copies of these guides are added to libraries, and information submitted to the Union List Committee. Let's make a concerted effort to have this happen. In conjunction with the Guidebooks Standards committee, I think we are improving the "species" and though I have no evidence, I hope that it was the society's influence which led GSA to issue their new Guidebook Series.

For 2000, we are establishing an Ad Hoc Committee on Instruction/ Information Literacy in Geoscience Information. Following a paper presented at the GIS Symposium, it became clear that this is a role we need to give more attention. As students and researchers begin to rely more on "internet resources" there is a clear need for instruction and guidance.

It is the members of the society who make all of the above possible, and I shall be calling on most of you to ensure that the important issues get attention. I am looking forward to this year and the mountains of work we will all get done.



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GIS members are encouraged to contribute materials for publication. Material for the April 2000 issue should be received no later than March 25, 2000. If possible, please send materials by e-mail or on DOS-compatible disc.



## VICE PRESIDENT'S COLUMN

Snowstorms have plagued the East Coast all week and, as I write this, it seems incongruous to contemplate a meeting in early November. Nonetheless, GSA's deadline for Topical Sessions was January 10 and our Symposium entitled 'Electronic Information Summit: New developments and their impacts' is among the more than 170 session proposals that GSA has received. One member of the Program Committee commented that we needed to start additional construction on the Reno Convention Center right away.

The description of our session reads: The Internet now plays a central role in the information flow between geoscientists. The rapid changes in our traditional approaches to obtaining and disseminating information have created a need to examine the Internet's current and future impact on our traditional information sources and activities. Topics include: evolution of information acquisition behavior; economics of the new media; current and future impacts of digital library initiatives; changes in intellectual property law; future role of brick-and-mortar versus virtual libraries; integration of new technologies in university libraries; alteration of publishing patterns and effects on acquisition of publications; long-term preservation of print and electronic data; and integration of information-gathering into Web-based education/training.

As I contemplated some of the potential topics to be covered in our session, I was struck by the diversity in the changes that have taken place during the last few years. The impact of the Internet has only begun to be felt on a global scale and the trickle-down effect of cutting edge

technologies will be an ongoing process. Some of my colleagues see brick-and-mortar libraries as a symbol of the past and library catalogs and bibliographies as anachronisms. With sophisticated search engines and information just a click away, what will be the future role of the library and the information professional? Will Internet or intranet be the preferred means of information delivery over the next five years? Who will control the content and access to information on the intranets? What happens to the collective body of knowledge represented in print? I'm hoping to hear some interesting answers to these questions and others in our Symposium.

While I have contacted some speakers for the Symposium, it is hoped that the majority of the presentations will be volunteered. GSA will be advertising the list of sessions in the June issue of *GSA Today* and electronic abstract submission forms will be up on their Web site on May 1. Copies for paper submissions will be available March 1 and can be obtained directly from GSA. I will, also, have a batch of paper forms.

By the time you read this, the preliminary schedule of events for the annual meeting will have already been submitted to GSA. Please contact me with any changes or additions as soon as possible. GSA deadlines come up quickly and they request final schedules by mid-March. Any events that we want to highlight in the June *GSA Today* would need to be given to me by mid-March as well. Suggestions for ways to make the meetings more effective and valuable can be sent to me anytime.



## COMMITTEES

### Archives

Mary Krick, Chair	2000 - 2002
Diane Baclawski	1998 - 2001
Nancy Duran	2000 - 2002
Lois Pausch	2000 - 2002

### Best Paper Award

Janice Sorensen, Chair	1997 - 2000
Renee Davis	1998 - 2001
Nancy Duran	2000 - 2002
Elizabeth Fish	2000 - 2002
Chip (Julian) Green	1998 - 2001
Lura Joseph	2000 - 2002
Kathleen Spencer	1998 - 2001
Patricia Zeidler	1998 - 2001

### Collection Development Issues

Steve Hiller, Chair	1997 - 2000
Barbara DeFelice	2000 - 2002
Li-Mei Chen	1998 - 2001
John Hunter	1997 - 2000
Timothy Keel	2000 - 2002
Carol Larussa	1998 - 2001
Michael Noga	2000 - 2002
Pat Yocum	2000 - 2002

### Digital Data

Adonna Fleming, Chair	1997 - 2000
Agnes Adams	1998 - 2001
Chris Badurek	1998 - 2001
Roberta Brody	1998 - 2001
Patricia Cotosman	1998 - 2001
Lisa Dunn	1998 - 2001
Katie Frohberg	2000 - 2002
Ian Gordon	1997 - 2000
Lorraine Knox	1998 - 2001
Phil Stoffer	1998 - 2001

### Exhibits

Sally Scott, Chair	1997 - 2000
Karen Bolm	1998 - 2001
Kay Johnson	2000 - 2002
Ed Lener	2000 - 2002

### GeoRef Users' Group

Nancy Blair, Chair	1997 - 2000
Annick Anceau	1998 - 2001
Shaun Hardy	1997 - 2000
Carolyn Laffoon	1998 - 2001
Ann Priestman	1998 - 2001
Jane Stephens	2000 - 2002
Andrea Twiss-Brooks	2000 - 2002

### Guidebook Standards

Claren Kidd, Chair	1998 - 2000
Jan Ferrari-Hunt	1998 - 2001
Janice Jaguszewski	2000 - 2002
Mary Krick	2000 - 2002
Carol Messick	1998 - 2001
Karen G. Piquene	2000 - 2002

### International Initiatives

Claren Kidd, Chair	1997 - 2000
Zelda Colodner	1998 - 2001
Julie Hallmark	1998 - 2001
Barbara Haner	1996 - 2000
Dena Hanson	1998 - 2001
Independencia Iselidh	1998 - 2001
Dorothy McGarry	1998 - 2001
Nora Tamberg	2000 - 2002
Julie Triplehorn	2000 - 2002

### Membership

Barbara DeFelice, Chair	1998 - 2001
Karen Bolm	1998 - 2001
Beverly Chen	1998 - 2001
Li-Mei Chen	1998 - 2000
Mary Krick	1998 - 2001
Clara McLeod	1998 - 2001
Richard Soares	1998 - 2001
Elizabeth Wallace	1998 - 2001

### Nominating

Lois Pausch, Chair	1998 - 2001
Martha Andrews	2000 - 2002
David Lapse	2000 - 2002
Janice Sorensen	1998 - 2001

### Union List of Field Trip Guidebooks

John Mulvihill, Chair	1998 - 2001
Dena Hanson	1998 - 2001
Lura Joseph	1998 - 2001
Carol Larussa	1998 - 2001
Carol Messick	1998 - 2000
Jim O'Donnell	1998 - 2001
Carol Shields	2000 - 2002
Phil Stoffer	1998 - 2000
Louise Zipp	2000 - 2002

### Website Advisory Committee

Jim O'Donnell, Chair	1998 - 2001
Dennis Trombatore	1998 - 2001
Elizabeth Wallace	1998 - 2001
Lisa Wishard	1997 - 2000
Peggie Wormington	1998 - 2001



## AGI's Earth Science Educational Curriculum:

### What GIS Members Should Know

by

Phil Stoffer

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The American Geological Institute (AGI) is seeking support for its Earth Science education curriculum projects: EarthComm (EC) for high school, and Investigating Earth Systems (IES) for middle school. An overview of the EC and IES projects was the focus of the AGI Member Society Forum on Earth Science (held on Sunday 12/12/99 at UC Berkeley). My initial skepticism inferred that the project might be "reinventing the wheel" of Earth Science education curricula. However, my attitude changed to one of guarded optimism as each of the presenters laid out aspects of his (and her) experiences and goals for these ambitious programs. Key to the success of these programs will be the willingness of each of AGI's member societies to spread awareness of the endeavors, as well as participate in development.

A website <<<http://www.its-about-time.com/>> describes both EarthComm and Investigating Earth Systems. Both EC and IES are being developed to cover the scope of the national Earth Science education standards while, in addition, promoting a three-part agenda: 1) community-based science, 2) a "systems" view of the world, and 3) methods of inquiry in scientific investigation. Curriculum development has focused on "modules" - a series of topic-related sessions that, when completed, will encompass all the content included in the national Earth Science curriculum standards. Field testing of all modules is occurring this school year, with the commercial release of both programs set for fall 2000, with revisions forthcoming indefinitely. (See the Module List below.)

Interestingly, what AGI doesn't need from its member societies is endorsement. It is already beyond that stage in its commitment to these products. The success of EC and IES will be in AGI's investment in field testing the different modules and using the feedback from teachers to revise later editions. It is difficult to imagine the hurdles encountered in developing a national scale curriculum! The new curriculum must encompass both national and specific state Earth Science education standards. The curriculum writers supported by AGI have had to handle such problems as to how to address the hot political issues (like evolution) and to reconcile disputes concerning pedagogy. AGI has been fortunate to find a publisher both willing and capable of supporting the changing long term needs of the program. Because such projects take so long to accomplish, AGI has had turnover in the management and implementation of the program. And, these are perhaps the easy problems!

Once the product preparation approaches completion comes the task of selling it to a nation. The concept of

"community based science" may be the strength of AGI's curriculum, particularly in areas where local geologic concerns weigh heavily on the minds of a community. Inquiry-based education will also be somewhat difficult to sell, particularly to teachers, parents, and administrators not familiar with the methods. It has been proven that inquiry-based educational methods are an effective means of moving students to higher levels of understanding while building greater enthusiasm for science. However, certain problems remain. Because standards differ from state to state, the program must go beyond inquiry - it must be content rich and comprehensive. Perhaps my initial skepticism comes from having been a teacher. The burden on teachers to be prepared to teach a full Earth Science curriculum based on standards is difficult enough. (Fortunately, ETS has not yet developed an Advanced Placement Exam for Earth Sciences.) The "inquiry" teaching method will work only in school settings where adequate supervision and supplemental learning materials are provided. As I see it, AGI's curriculum will work best in well-funded schools, but like any other curriculum methods, success will be marginal in crowded, poorly-funded schools. Michael J. Smith, Education Director at AGI, counters this argument by stating: "We have designed both programs with costs in mind. Activities are simple and use locally available resources and simple materials. In fact, we are developing the materials kits for both programs in conjunction with the publishers because large kit companies tend to blow the costs sky high. Our field test is designed to see if there is any correlation between school and class size and performance."

The "community based science" approach will help, especially in communities where the local geology is interesting, and especially where geoscientists take an active role in teacher training and assisting in classroom or field trip activities. We all know this: the geoscience community must become much more involved in the education of our nation's children! Supporting AGI's EC and IES is a way for that to happen.

Involving geoscientists in educational outreach is a crucial issue, and perhaps the greatest strength of the AGI curriculum agenda. AGI needs the assistance of members within its allied societies to promote EC and IES to schools by talking with teachers, parents, and school administrators. AGI also needs to recruit teacher trainers to both prepare and motivate teachers to adopt its curriculum. However, with nearly 65,000 school districts in the United States, AGI will need more help than it alone can provide. For instance,



in the San Francisco Bay Area there are many ways this is already happening through "grass roots" initiatives sponsored by individuals, businesses, societies, college programs, etc.; many are well funded. It will be easy for most of these organizations to adopt or modify ongoing programs to the EC and IES curricula (some won't have to change a thing except their awareness!) However, the Bay Area, with its strong geoscience community, is perhaps an exception. Places where a "vacuum" in the geoscience community currently exists will be the hardest places to reach. Central to the problem is that schools will be unlikely to change until their state adopts AGI's curricula. Otherwise, teachers and administrators will remain committed to what their state mandates.

As dismal as this might sound, it can also be looked at as an opportunity. We can't anticipate that the nation will suddenly adopt AGI's initiative, but we might expect some states and key districts will come on board quickly, with others to follow. It should be an interesting story to watch as it unfolds! Federal agencies, including the USGS, NASA, and NOAA, have much to offer and gain by actively participating, particularly by providing companion information and teaching materials via the Internet. Community-based education is going to create an even greater demand for community-oriented websites with geologic focus that cover all aspects of the curriculum. Whereas many excellent websites already exist, there is ample room for more. Employers (including universities, industry, and government) need to consider expanding educational outreach to communities, and aligning with AGI's Education Program is a perfect focal point.

And this is perhaps the source of my optimism. Needs create opportunities. The geoscience community has already endorsed AGI as our flagship organization to unite us in all aspects of geoscience leadership and communication. Our collective support for AGI's EC and IES projects is a logical step, even if we can't all agree on the details. To quote one of AGI's EarthComm field tester/trainers, Ellen Metzger (San Jose State Univ., Geology Dept.), "Nothing is perfect, but it is a great start." We might consider the 2nd AGI curriculum agenda (a "systems" view of the world): Our input will change the system; output will be a matter of the scale of our investment in time and resources

## Topical List of EarthComm and Investigating Earth Systems Modules

### EarthComm modules:

#### Earth's Dynamic Geosphere

1. Volcanoes and Your Community
2. Earthquakes and Your Community
3. Plate Tectonics and Your Community

#### Understanding Your Environment

1. Landscape Evolution and Your Community
2. River Systems and Your Community
3. Land Use Planning and Your Community

#### Earth's Fluid Spheres

1. Oceans and Your Community
2. Severe Weather and Your Community
3. The Cryosphere and Your Community

#### Earth's Natural Resources

1. Energy Resources and Your Community
2. Mineral Resources and Your Community
3. Water Resources and Your Community

#### Earth Systems Evolution

1. The Solar System and Your Community
2. Climate Change and Your Community
3. Changing Life and Your Community

### Investigating Earth Systems modules:

#### Grades 5-6

- Investigating Soil
- Investigating Oceans
- Investigating Materials and Minerals

#### Grades 6-7

- Investigating Water as a Resource
- Investigating Climate and Weather
- Investigating Rocks and Landforms

#### Grade 7-8

- Investigating Dynamic Earth
- Investigating Energy Resources
- Investigating Life Through Time



## MEMBER NEWS

compiled by Shaun Hardy  
hardy@dtm.ciw.edu

We start the new millennium with four new members and a flurry of career moves, retirements, and directory changes. Please update your copy of the Membership Directory accordingly or refer to the online version on the GIS web site. Membership dues for 2000 are due February 15! Please be sure to send in your renewal form to the Secretary along with your payment, noting any corrections in your contact information.

### New Members

Exploration & Producing Information Center (EPIC)  
Kathleen Haughney, Librarian  
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Renee Davis is now Science & Technology Reference Librarian at:  
Perry Library  
Old Dominion University  
Norfolk VA 23259  
phone: 757-683-4484; fax: 757-382-5130  
e-mail: rdavis@odu.edu

Susan Goodman has retired from the Library of Science and Medicine at Rutgers. E-mail may still be sent to her university e-mail address, however: sgoodman@rci.rutgers.edu

Miriam Kerndt has retired from the University of Wisconsin-Madison Geography Library. new e-mail: mekerndt@facstaff.wisc.edu

Lois Pausch will retire at the end of February from the Geology Library at the University of Illinois at Urbana-Champaign.

Terry Pinkston is now Information Systems Consultant at:  
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### In Memoriam

Gloria Greene, Librarian-in-charge of the Science Library at the University of the West Indies, passed away on November 25 after a short illness. She had been a member of GIS since November, 1998. According to her colleague, Beverley Lashley, Mrs. Greene joined the staff of the UWI Library in 1972 as assumed her position in the Science Library in 1989. She was also one of the pioneers in the development of the Caribbean Disaster Information Network (CARDIN).

William T. Holser, Professor Emeritus in the Dept. of Geological Sciences, University of Oregon, passed away on December 25. (A memorial to Dr. Holser follows.)

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*Metal Mining and the Environment*, by Travis L. Hudson, Frederick D. Fox, and Geoffrey S. Plumlee, is now available from the American Geological Institute. This colorful 64-page booklet discusses both the environmental aspects of mining metals and the scientific and technological advances that modern miners use to prevent or reduce potential environmental impacts. The volume was produced in cooperation with the Society of Economic Geologists, the Society for Mining, Metallurgy, and Exploration, Inc., and the U.S. Geological Survey. The list price is \$15.95; the price for members of AGI member societies is \$9.95 plus shipping and handling. AGI publications may be ordered from the online Book Center, <http://www.agiweb.org>, or from AGI headquarters by e-mail, [ds@agiweb.org](mailto:ds@agiweb.org), or by phone, (703) 379-2480, ext. 214. For information on bulk-order discounts, contact Scott Rall at AGI headquarters by e-mail, [sgr@inet2.agiweb.org](mailto:sgr@inet2.agiweb.org), or by phone, (703) 379-2480, ext. 216.



## In Memorium: William T. Holser

*Editor's note: We were saddened to hear that Bill Holser, professor emeritus, University of Oregon, died December 25, 1999 after a long battle with Parkinson's disease. Because we'd worked with Bill, we were asked to prepare this statement, which was read at his memorial.*

### One of Bill Holser's Last Battles: The Fight to Save the USGS Libraries

Bill Holser was a highly accomplished scientist and teacher, but he was also someone who fought fiercely for causes he believed in. In 1997 and 1998, Bill worked fervently and tenaciously for the U.S. Geological Survey libraries as they faced their biggest modern challenge. The Libraries ultimately won and Bill's passion for that cause was a significant factor in that victory.

As all serious researchers know, a robust and deep current journal collection is the heart of any great research library. That is especially true in the geosciences, which are unusually dependent on previous and current research. In the United States, we have been most fortunate to have had the rich, in-depth collections at the U.S. Geological Survey libraries (in Reston, VA, Denver, CO, and Menlo Park, CA). Those libraries are a treasure, both to the USGS researchers they serve directly and to all the other geoscientists--nationally and internationally--who rely upon them.

Consequently, the national and international geoscience community was stunned in Spring 1997 by the proposal from USGS administrators to slash the library journal budgets by half. That was a simple cost-saving measure by the administrators but it would have crippled the libraries.

Voices rang out to support the libraries and to oppose those cuts, from USGS scientists, from geoscience librarians, from professional societies-- and especially from Bill Holser.

Bill was a major force in support of the USGS libraries, especially at the 1997 GSA annual meeting. He circulated petitions to establish the USGS library as the National Library of the Geosciences. He presented a paper, "Toward a National Library of Geosciences" (later published in the Geoscience Information Society proceedings). He hosted the first-ever "Friends of the USGS Library" meeting, attended by concerned scientists and librarians and USGS representatives (including the Survey's chief geologist, P. Patrick Leahy who had first announced those cuts). Despite his illness, Bill was an unstoppable force.

By the 1998 GSA annual meeting it was plain that the USGS administrators had gotten the message loud and clear. Not only had the threatened reductions vanished but

the libraries had emerged stronger and more visible than ever. At that year's Friends of the USGS Libraries meeting-- again organized by Bill Holser--Linda Gundersen, USGS Associate Chief Geologist, voiced the Survey's strong support for the libraries, now and in the future. That support was even more clearly defined in the 1998 USGS Geologic Division's strategic plan (Bohlen and others, 1998, p. 50). The libraries had won.

Bill Holser was a tireless champion for the libraries when their need was greatest. While we only knew him briefly, we in the geoscience information community are deeply grateful to Bill for his leadership and fierce determination. We will remember him fondly.

Connie J. Manson, 1998 President,  
Geoscience Information Society

#### selected readings:

- Blair, Nancy, 1997, News of the USGS Libraries: Geoscience Information Society Newsletter, no. 166, p. 6.
- Bohlen, S. R.; Halley, R. B.; Hickman, S. H.; and others, 1998, Geology for a changing world--A science strategy for the Geologic Division of the U.S. Geological Survey, 2000-2010: U.S. Geological Survey Circular 1172, 59 p.
- Dunn, Lisa, 1998, Meeting for the "Friends of the USGS"-- Summary of minutes: Geoscience Information Society Newsletter, no. 170, p. 8-9.
- Dunn, Lisa, 1999, Friends of the USGS Libraries meeting, 10/25/98: Geoscience Information Society Newsletter, no. 176, p. 4-5.
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## AGI GOVERNMENT AFFAIRS PROGRAM ALERT

### Congressional Visits Day, April 4-5, 2000

prepared by Margaret Baker and David Applegate,  
AGI Government Affairs Program

President Clinton announced January 21 that he will request \$4.6 billion for the National Science Foundation, a 17 percent increase. Details of the President's budget will not come out until February 7th, but indications are that geoscience-related agencies could see record increases. The budget request, however, is just that, and it will take a concerted effort from the scientific community to convince Congress to turn the presidential request into bipartisan reality.

The 5th Annual Science-Engineering-Technology Congressional Visits Day (CVD), in Washington, D.C. April 4-5, 2000 is a perfect opportunity for those efforts. This annual event brings scientists and engineers to Capitol Hill to visit their members of Congress and congressional staff. AGI would like to see a strong contingent of geoscientists at this event, voicing their support for increased federal investment in science and technology. We need your help to identify geoscientists who would be interested in participating. We especially encourage the leadership of AGI's Member Societies to attend.

Last year, more than 200 scientists and engineers from academia and industry attended, including 20 geoscientists. This year's CVD will consist of an opening day of briefings by key administration and congressional leaders followed by a day of constituent meetings with senators, representatives, and their staff. AGI will join with AGU to hold a pre-briefing for geoscience participants on the 4th, and we can help arrange the constituent visits.

It is vital for geoscientists to be represented in science-community efforts if our discipline is to be a recognizable (and valued) element in the congressional view of "science". For anyone interested in science policy, this event should be a good deal of fun and a great opportunity to have your voice heard in Washington. Please pass this message along to anyone you feel might be interested. If this event appeals to you or you know of someone who would be interested in coming to Washington, please contact Margaret Baker by e-mail at [mab@agiweb.org](mailto:mab@agiweb.org) or phone at (703) 379-2480 ext. 212.

More information is available on the CVD website at <http://www.agiweb.org/cvd/>, and a summary of the 1999 Congressional Visits Day is available in the July 1999 *Geotimes* at <http://www.geotimes.org/july99/newsnotes.html#ote3>. CVD is organized by the Science-Engineering-Technology Work Group (of which AGI is a member) and the Coalition for Technology Partnerships.

## Readings and Websites

with contributions from Janice M. Jaguszewski, Claren Kidd,  
Linda Musser, and Lee Walking

*Current Cites* (ISSN: 1060-2356), from the University of California, Berkeley Library, reviews recent articles about publishing, libraries, and the Internet. It's available at <http://sunsite.berkeley.edu/CurrentCites/1999/cc99.10.12.html> The December 1999 issue includes these items:

- Arms, William Y., 1999, Preservation of scientific serials--Three current examples: *Journal of Electronic Publishing*, v. 5, no. 2. (<http://www.press.umich.edu/jep/05-02/arms.html>).
- Breeding, Marshall, 1999, Does the web spell doom for CD and DVD?: *Computers in Libraries*, v. 19, no. 10. <http://www.infotoday.com/cilmag/nov99/breeding.htm>
- Carvajal, Doreen, 1999, Racing to convert books to bytes: *New York Times*, Dec. 9, 1999, p. C1, C27.
- Library of Congress, 1999, Conservation implications of digitization projects--National Digital Library Program and the Conservation Division: Library of Congress. (<http://memory.loc.gov/ammem/techdocs/conserv83199a.pdf>).
- Graham, Margaret E., 1999, The description and indexing of images--Report of a survey of ARLIS members, 1998/99: University of Northumbria at Newcastle Institute for Image Data Research. (<http://www.unn.ac.uk/iidr/ARLIS/>).
- Harnad, Stevan, 1999, Free at last--The future of peer-reviewed journals: *D-Lib Magazine*, v. 5, no. 12. (<http://www.dlib.org/dlib/december99/12harnad.html>).
- Heckart, Ronald J., 1999, Imagining the digital library in a commercialized internet: *Journal of Academic Librarianship*, v. 25, no. 4, p. 274-280.
- Kelly, Henry., 1999, Information technology and the environment--Choices and opportunities: *iMP* (*Information Impacts Magazine*), Oct. 1999. ([http://www.cisp.org/imp/october\\_99/10\\_99kelly.htm](http://www.cisp.org/imp/october_99/10_99kelly.htm))
- Lieb, Thom., 1999, Looking good: *Journal of Electronic Publishing*, v. 5, no. 2. (<http://www.press.umich.edu/jep/05-02/lieb0502.html>)

### Other interesting articles:

Quint, Barbara, 2000, Major scholarly publishers unite to integrate article delivery: *Information Today*, v. 17, no. 1, p. 12, 54-55.

Ryburn, R. J., 1999, The evolution of geoscientific metadata: *AGSO Research Newsletter*, no. 31 (Nov. 1999), p. 12 & 13; <http://www.agso.gov.au/information/publications/resnews/>

A new electronic journal, *GeoChemistry, GeoPhysics, GeoSystems* or G3 (cubed), will be published early next year by the AGU and the Geochemical Society. As stated on their website (<http://www.g-cubed.org/>), they intend to keep publication costs low and subscription rates at a minimum. It will initially be available at no charge.



## JOB ANNOUNCEMENT

### Physics/astronomy Librarian, Ohio State University, Columbus, oh

Available: Immediately.

**Responsibilities:** The Physics/Astronomy Librarian is one of five librarians in the Science and Engineering Library (SEL) at The Ohio State University. This library is the largest of ten department libraries and serves the research and teaching needs of the students, faculty and staff of the College of Mathematical and Physical Sciences and the College of Engineering. The Physics/Astronomy Librarian's primary responsibility is to support the teaching and research information needs of the students, faculty and staff of the Departments of Physics and Astronomy. This individual also actively participates in the management and daily operation of the Library and reports to the Head of SEL.

Activities that support these responsibilities include:

- \*Establish and maintain connections with Physics and Astronomy students, faculty and staff, both in person and electronically.
- \*Identify, evaluate and select information resources including print, electronic, and internet resources that support the teaching and research needs of the Physics and Astronomy Departments.
- \*Monitor appropriate library material budgets.
- \*Develop and provide a bibliographic instruction program for the Physics and Astronomy Departments including orientation sessions, classroom instruction, web based tutorials, internet workshops and the development of both traditional and web bibliographies.
- \*Participate with other SEL staff in the provision of general reference assistance (traditional and electronic) to library users both in person and remotely.
- \*Actively participate in the development of the Virtual Science and Engineering Library for The Ohio State University campus.
- \*Serve on appropriate library, university and professional committees.

**Qualifications:**

**Required:** Master's degree from an ALA-accredited program; relevant experience and a strong commitment to public service; familiarity with print and electronic reference resources; a demonstrated ability to use technology, including the World Wide Web; excellent oral and written communication skills; ability to work effectively with diverse groups.

**Desired:** Academic reference experience and educational background in the physical sciences.

**Salary and Rank:** \$30,000 minimum. Faculty rank and salary dependent upon experience and qualifications. This position has faculty status with accompanying University expectations and requirements for tenure and promotions which include research, publication, and service.

**Benefits:** 22 days vacation, 15 days sick leave, 10 holidays. Hospitalization, major medical, surgical-medical, dental, vision, and long-term disability insurance; life insurance at 2 1/2 times one's annual salary. State and alternative retirement system available.

**Environment:** Founded in 1870, The Ohio State University is a comprehensive, state-assisted university offering a complete environment for learning for its ca. 3,100 faculty and 48,000 students at the Columbus campus. The University Libraries system is composed of the Main Library, ten department libraries, the University Archives, five special collections, the Law Library and the Health Sciences Library on the Columbus campus; four regional campus libraries; and the libraries of the Agricultural Technical Institute and the Ohio Agricultural Research and Development Center in Wooster. The Libraries have a staff of 250 of which approximately 80 are Library Faculty. Its collection of over five million volumes makes it one of the nation's largest research libraries.

The Science and Engineering Library has a staff of 4.5 faculty, 1 A&P, and 10.5 staff. The collection of over 350,000 volumes includes over 3000 current serial subscriptions, both print and electronic.

The Ohio State University Libraries is a leader in library user education with a program that reaches all entering freshmen students and a developing program of course-related instruction for upper level undergraduate and graduate students, as well as a program of online, self-paced tutorials. It is also a leader in the development and use of library-related computer technology and is a charter member of OCLC, Inc. and OhioLINK, a shared central catalog and a statewide circulation and delivery network. Additional information is available at [www.lib.ohio-state.edu](http://www.lib.ohio-state.edu).

**Application:** Applications will be accepted until the position is filled. Preference will be given to applications received by January 10, 2000. Send letter of interest with a current resume and name, address, phone, and email address of three references to Linda S. Gonzalez, Manager, Library Human Resources (see address above), phone (614)292-5863, FAX (614)292-7859, e-mail [gonzalez.107@osu.edu](mailto:gonzalez.107@osu.edu).

An Affirmative Action/Equal Opportunity employer. Women, minorities, Vietnam-era veterans, disabled veterans and persons with disabilities are encouraged to apply.



## 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. (ISBN 0-934485-23-2)
- 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 1 through 25 are out of print and available from: Out-of-print Books on Demand, University Microfilms, Inc., 300 North Zeeb Road, Ann Arbor, Michigan 48106

### 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

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