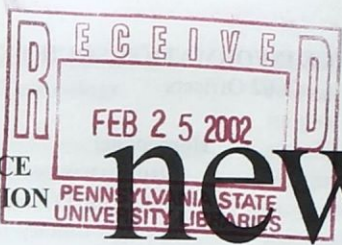




GEOSCIENCE
INFORMATION
SOCIETY



newsletter

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PRESIDENT'S COLUMN

It may have been a quiet week in Lake Wobegon, but that's not the case here at MIT. It's one of those rare periods where you get enough extra serial money to finally satisfy most of your user requests and significantly strengthen your collection; but you have to make your decisions quickly. About half of our science print journals are available electronically to MIT users. I have looked at Web sites for the rest to see if full-text electronic access is available and what are the terms. Remember how you once looked up the price of a journal in a publications list or in a serials guide. Now it seems as if the publisher wants you to subscribe or sign up for electronic access without even knowing the cost. You would think that the price of print, print+online, and online would be prominently displayed. Instead I often find myself going from one page to another to find out what is available for institutional subscribers and at what cost. Then there's the common "contact the publisher for subscription price" notices. You end up going back and forth with the publisher on the price. Some publishers base the price of electronic resources on the number of students, some on the number of students plus FTE, and some on the number of people in a prospective user group. Perhaps some standard way of pricing will emerge, or maybe electronic resources subscriptions will follow airline ticket pricing. I can see it now. One vendor sends you an email message on Wednesday that you can buy electronic journals for \$250 provided you pay by Saturday. Another vendor allows you to bid on three journals for a limited period. However, it won't tell you the title until

you commit the funds. And what about frequent subscriber discounts?

Let's move on to geoscience journals. We all know by now the issues involved with AGU electronic journals. Other models of electronic journal access exist or are being developed. The AAPG, SEG, and GSA are exploring an aggregate model where their publications would be available electronically, and the literature would be linked. The idea is that a geoscientist needs more than just the literature of a given society. Other geoscience societies are interested in this venture, and perhaps the aggregate would be linked with the large journal packages of other physical science societies. I hope to hear more on this development at the GSA Associated Societies Meeting at the end of February.

It's time for a few words about Society business. In January, I worked on committee assignments. You will see a preliminary list in this issue of the Newsletter. I have tried to achieve a balance of experience levels for each committee. If you have not been appointed to a committee and want an assignment, please contact me soon.

During the next three months, I will be working on the Proceedings. I have already received some of the papers. I hope to include some of the presentations at the forums in Boston. I might even put in a description of the field trip.

Finally, I thank Shaun Hardy for his excellent work as Acting Treasurer in 2001 and welcome Patricia Yocum to the Executive Board as our new Treasurer.

VICE PRESIDENT'S COLUMN

The theme for the GSA Annual Meeting in Denver, Oct. 27-30, 2002 is "Science at the Highest Level." There are 117 Topical Session proposals (still being reviewed at the GIS newsletter submission deadline). The following is my Topical Session proposal:

(continued, p. 3)

The GIS Newsletter is now available to GIS members as a PDF file. To sign up, e-mail the editor at connie.manson@wadnr.gov (Subscribers will continue to receive the print edition only.)

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GIS members are encouraged to contribute materials for publication. Material for the April, 2002 issue should be received no later than March 23, 2002. If possible, please send materials by e-mail.

Topical Session: New Heights in Geoscience Information: Access and Technology

Short description:

New technologies and changes in information-seeking behavior have a powerful influence over how we manage geoscience information. This session focuses on innovations in accessibility, creative applications of technology, and information's impact on the geoscience community.

Rationale:

Geoscience information is at a "new height:" accessible as never before with the developments of technology and use of the World Wide Web. Publishers and authors are exploring new distribution methods for their products and new formats to communicate ideas. At the same time, we face an information overload that makes it increasingly difficult to find the peaks of relevant data within all the noise of the entire body of geoscience literature. We stand in danger of losing access to our cumulative heritage of geoscience information as print collections decay or lie hidden from technology's view and electronic resources disappear without archiving. In response to this changing environment the geoscience community is creating, using, and managing

information in new ways. Libraries are shifting resources, evaluating preservation methods, and addressing the need for new forms of access and metadata. Assistance and instruction in using information is evolving as well. This session provides an opportunity for speakers to discuss their projects in these areas to maintain the heights of geoscience information access.

(My thanks to those tired and perhaps inebriated colleagues in the lobby of the Boston Sheraton who contributed ideas to the above.)

The two key words, "accessibility" and "technology," are far-reaching in librarianship and information science--there's a lot of scope to describe your ideas, experiences, and research. I encourage you to submit an abstract to be presented in this Topical Session. *GSA Today's* April issue will include a formal call for papers and the electronic abstract submission form will be available shortly. The deadline for **abstract submission** is **July 16**.

Please contact me if you have any questions, if you would like to bounce ideas off me, or if you have comments or ideas for other GIS events. I'd be happy to hear from you. Planning for the Denver meeting is on its way.

Minutes: Geoscience Information Society Annual Business Meeting Tuesday, November 6, 2001

Sharon Tahirkheli, President, opened the meeting at 2:00. The minutes of the 2000 annual business meeting were approved. Officers were introduced. New officers: Lisa Dunn, Colorado School of Mines, Vice President/President Elect: Announced that the theme for next year's GSA meeting in Denver will be "Science at its Highest". Patricia Yocum, University of Michigan, Treasurer. New members were introduced: Angela Gooden, University of Cincinnati; Jean Ingles, Stanford University; Andrea Jackson, UCLA. All members introduced themselves.

Officer's Annual Reports:

Secretary--Suzanne Larsen: At this date, GIS has a total of 197 active members. Of those, 6 are student members. Over the past year we added 13 new members for a total membership of almost exactly the same as last year.

Treasurer Report--Shaun Hardy: The financial records for the Society have been closed for 2000 and sent to our auditor, Margy Walsh. A full budget report will be in the December newsletter. We will end this fiscal year with a spending deficit of \$1900. This has become a trend and we will need to look at a way to alleviate it in the future.

Vice President/President Elect--Michael Noga: Noga gave a fieldtrip update, a Professional Issues "fieldtrip" update, and said he will be providing directions to MIT for those who will make their own way for the reception.

A list of Committee assignments was passed out.

Committee Reports:

Most were published in the October newsletter, updates were given as well as reports for those not published.

Archives: Putting GeonetL archives as a searchable file on the Web is being investigated. The AGI server is a possibility but there will be no tech support.

Best Paper: The Committee is looking into awarding honorable mention for those papers not awarded Best Paper.

Collection Development: Requested ideas for next year's meeting.

Membership: The Committee met on Sunday and is revising brochure again.

Preservation: In the coming year the Preservation committee will update their web page. The Committee has several openings.

Union List of Guidebooks: A group of interested people met on Sunday. Information on the changes in the process of creating the Union List has been distributed.

Guidebook Standards: The Committee needs new members.

International Initiatives: The Committee needs someone who will take on the task of raising funds to support sponsored international members.

Website advisory: The proposed guidelines for best web site have been discussed but are not ready to report

Appointed Officers and Representatives Reports:

Newsletter--Connie Manson: Reviews are welcome and

appreciated. Postage is an increasing financial problem. We are not eligible to send bulk rate because of low numbers.

Listserves--Carolyn Laffoon: In April 2000, the list was moved from Indiana to Purdue. If you are not receiving messages, email Carolyn@Purdue

Member Society Council--Charlotte Derksen: The group met yesterday morning. Two new member societies have been added: American Rock Mechanics Association and the Society of Mineral Museum Professionals. We might want to tie in with the latter at some point. The Council is concerned about earth science education in the K-12 environment. GSA is a partner in an initiative exploring an aggregate site for e-journals with SEG and AAPG. So far there is no further information on the availability of a site license for GSA e-journals.

GeoRef Advisory Committee--Suzanne Larsen: The committee met at AGI headquarters in Alexandria, VA in the Spring and will meet on Thursday afternoon here in Boston. Charlotte Derksen is the chair of the committee.

CUAC--Clara McLeod: A new representative needs to be assigned to replace Rich Spohn. The annual report was in the newsletter.

GSA Publications--Connie Manson: The group meets twice a year. Issues: GSA is going through major change. They are aware of e-publishing but have some problems with it. They are concerned about the impact it might have on revenue stream if personal subscriptions decline. They do understand our need for campus-wide access. But some progress has been made. The Guidebook problem was also addressed. It had been designated as a formal series, and that actually worked for a couple of meetings. But for the Boston meeting, guidebooks will be produced and distributed by someone else. Guidebooks will not be distributed through GSA. There will be no formal GSA guidebook series for this meeting. They will be published through the New England Geological Society. If you are interested in obtaining them, contact Louise Zipp at Middlebury. Short course notes are also a problem. They are not usually produced in large quantities and sometimes not available beyond those signed up for the classes. GSA is interested in feedback.

NSF DLESE--Barbara DeFelice: Update will be in the next newsletter. DLESE stands for Digital Library for Earth Science Education. UCAR and Cornell won grant for a core integration system. DLESE is now alpha testing the search system.

WAML--Nancy Blair: Rich Spohn will be president but need new GIS representative. Portland meeting, O'Donnell reported that at the Portland meeting there was a wetlands fieldtrip as well as historical and environmental fieldtrips.

AGI Environment Advisory Committee--Chip Green: Asked if anyone interested in helping committee with content for their web page (links). They are also interested in newsletters that list hazards.

Old Business

Sponsored memberships--Barbara DeFelice: Sponsored memberships were begun as an initiative of the GIS International Initiatives group. Last year it was enlarged to include library school students but there was no supporting documentation. We are accumulating funds for this but not using them. One can fund a membership for a specific individual or contribute to a pooled fund. A person can be nominated to receive the pool fund support. We need to be able to measure the success of the program as well as set up better procedures and documentation. It was suggested that the pool fund be directed toward the non-international applicant who is not already a member of GIS and is a student with an interest in pursuing a career in the field of geoscience information. The applicant would be required to write a statement of interest. It was suggested that there be a limit on multi year membership support and that the program will be evaluated after 3 years. Some way to publicize the program should be investigated.

Bristol Fund--Sharon Tahirkheli: How to spend it within the stated wishes of the donor, which was to foster education in the earth sciences? There is about \$600 left in the fund. Sharon's proposal: A company in the DC area called the Rock Detective (a non profit) develops programs and provides materials for earth sciences at K-12 level. Ruth Deike is the owner. She offers a workshop where she provides a bucket of rocks and "mysteries". Our money would be able to fund teacher workshop. The program draws participants from all over the country. Motion at business meeting will be made to send entire fund to this program, and ask for summary from the recipient. We would like to have GIS and Ruth Bristol credited for the donation.

O'Donnell moved that the fund be donated to Rock Detective with condition that it is acknowledged as a gift of the Ruth Bristol fund from GIS. The motion was seconded by Charlotte Derksen and approved unanimously.

New Business:

GeoInfo VII--Sharon Tahirkheli: The Australians could not sponsor GeoInfo VII for a number of reasons. No one else could step in quickly. The British Geological Survey (Ken Jackson) may be interested in hosting it in London in 2003. Jackson wants to spend time conversing with other groups in Europe first. Jim O'Donnell pointed out that the International Geologic Congress is scheduled in Italy in 2004 and it would be good if the two were close together so that one could attend both. Connie Manson said that she had been contacted to see if GIS would host a session at IGC. Connie Manson appointed ad hoc liaison to IGC 2004.

Guidebook Database--John Mulvihill: Three years ago GIS decided to update the Union List of Guidebooks as an online file using remote data entry. This didn't work very well. Sharon Tahirkheli offered the GeoRef staff to do the

indexing and entry of material. Appropriate entries will be added to both GeoRef and the Union List. GeoRef does not have direct access to a guidebook collection, so they will rely on GIS members to identify and submit guidebooks to them. How will this be done? New guidebooks (2000-) in the database will be listed on a web page. If you are aware of a new guidebook not on the list then it should be submitted to GeoRef. John asked for a commitment from GIS to help AGI move forward with this. The product would not really be a union list since it would not list all holdings only the submitting library. In order to get the best bibliographic information on the guidebooks, it will be necessary to send the volume to AGI.

Other Discussion:

E-mail newsletter? Sending the newsletter in electronic format was discussed. There it could be sent as a PDF file or be restructured into a simpler format. The size of the file would be the issue. The Executive Board will investigate this.

Announcements:

USGS publication issues--Nancy Blair: A full report will be in the next newsletter (*Editor's note: that report is in*

this issue, p. 14). Publications are in flux with lots of changes especially with electronic publication issues. Roles have been changing as well. There is now a publications committee and a chief information officer with publications as part of the charge to the position. A Thesaurus Committee is at work for web pages. The Survey is really trying to get publication issues under control. There is work being done on metadata for old publications, including things that were never published. Lots of linking and methods of access will be provided. Security is an issue after 9/11. Some security requests are coming from other agencies. Depository libraries have been requested to destroy an open file CD-ROM on U.S. water supply. A list will be reviewed periodically for the need for suppression or not.

Award Labels--GIS could promote its awards if we had a supply of sheets with stickered labels. The publishers of our award-winning books could put them on their display copies. GIS members could put them on their library copies. Maybe the Secretary could maintain a supply. We could use generic labels without a date. Lisa Dunn will investigate.

The Pacific Section meeting was announced by the chair-for-life, Connie Manson

COMMITTEE REPORT

GeoRef Advisory Committee (GRAC), November 8, 2001, Boston, MA, Meeting Summary

Attending: Charlotte Derksen, Stanford University (Chair); John Steinmetz, Indiana State Geologist; Harvey Cohen, Papadapolous and Associates; Dennis Trombatore, University of Texas, Austin; Suzanne Larsen, University of Colorado; Afifa Kechrid, AGI; Sharon Tahirkheli, AGI.

The potential for participation in a Latin American consortial agreement to provide access to GeoRef was discussed. The funding, some of which would come from the OAS, has yet to be finalized. Currently the database is being used for training and demonstrations. AGI will know more about this in the coming year and if it will proceed.

The print subscription issue is an ongoing discussion. The *Bibliography and Index of Geology* (BIG) is nearing the point where subscription charges will no longer cover the costs of printing. However the cancellations have leveled off. Many who still subscribe also have electronic access as well. There is some concern for those who still subscribe and do not have electronic access. If it should become necessary to discontinue the print BIG, a plan

would be developed to contact those who receive only print to see if their needs can be accommodated.

GeoRef is on firm ground financially, especially with grants for work on the Cold Regions database and DLESE. The Cold Regions work will result in new records added to GeoRef as well.

The Groundwater and Soil Contamination Database, which is a sub set of GeoRef, has few subscribers. It is aimed at environmental consulting firms and agencies. Marketing and format issues were discussed. The GRAC still sees a niche for this product.

Foreign material in GeoRef is continuing to increase with agreements and indexes in Russia, China, Eastern Europe and New Zealand. South America is an area that has been problematic to add to the database but is an area of great interest that will be pursued.

The environmental parameters of GeoRef were discussed, given the increasing changes in the geosciences.

Strategic planning for GeoRef continues, as part of the overall AGI strategic planning process.

The Committee will meet again in Spring 2002.

MEMBER NEWS

Linda Zellmer has been appointed Head of the Geology Library at Indiana University. She will also be working with GIS (geographic information systems) in conjunction with other units in the IU Libraries. She can be reached at Geology Building, Room 601, 1001 E. 10th Street, Bloomington, Indiana 47405-1405; Phone: (812) 855-7170 Fax: (812) 855-6614; e-mail lzellmer@indiana.edu

ANNUAL REPORTS: Treasurer

GEOSCIENCE INFORMATION SOCIETY - Final Budget Report for 2000				
	Income Budgeted	Income Actual	Expense Budgeted	Expense Actual
EXECUTIVE BOARD				
President			150.00	
Vice-President			100.00	
Past-President			25.00	
Secretary			425.00	303.10
Treasurer			100.00	103.13
Teleconferences			200.00	
Subtotal			1,000.00	406.23
MEETINGS				
2000 Meeting			750.00	171.57
2000 Meeting: exhibits			1,000.00	746.43
2000 Meeting: fieldtrip	800.00		800.00	
1999 Meeting			3,000.00	4,134.13
1999 Meeting: exhibits			100.00	
Subtotal	800.00	0.00	5,650.00	5,052.13
DUES				
Institutional	1,900.00	1,950.00		
Personal	6,000.00	6,080.00		
Sustaining	400.00	700.00		
Retired	200.00	165.00		
Student	60.00	60.00		
Named Sponsorship	80.00	0.00		
Pooled Sponsorship	300.00	350.00		
Subtotal	8,940.00	9,305.00		
PUBLICATIONS				
Publications Manager			800.00	797.39
Directory of Geoscience Libraries		145.00		
Mailing labels	400.00			
Membership directory			1,400.00	1,130.00
Newsletter: printing			2,800.00	2,228.48
Newsletter: mailing			1,400.00	771.58
Newsletter: subscriptions	600.00	625.00		
Newsletter: back issues				
Proceedings, v.30 (1999)	1,500.00		2,500.00	2,030.00
Proceedings, v.29 (1998)	900.00	1,395.00		
Proceedings, v.28 (1997)	40.00	185.00		
Proceedings, v.27 (1996)	20.00	90.00		
Proceedings, prior volumes	80.00	135.00		
Index	15.00			
GEOINFO V Proceedings		95.00		
GEOINFO VI Proceedings	1,000.00	385.00		
Reprints				

Royalties		4.10		
Subtotal	4,555.00	3,059.10	8,900.00	6,957.45
REPRESENTATIVES/APPOINTEES				
AGI Member Council rep			25.00	
AGI Gov't Affairs Program rep				
CUAC (2 reps @ \$200 each)			400.00	
Publicity Officer			50.00	
Auditor			25.00	
Subtotal			500.00	0.00
COMMITTEES				
Archives			50.00	
Best Paper			50.00	17.98
Best Reference Work			50.00	17.98
Best Guidebook			50.00	17.98
Collection Development				
Digital Data				13.88
Educational Initiatives			25.00	
GeoRef Users Group			25.00	
Guidebook Standards				51.50
International Initiatives			100.00	
Membership			200.00	
Membership brochure			200.00	
Nominating			200.00	152.82
Preservation			250.00	
Public Affairs				
Union List of Field Trip Guidebooks				
Website Advisory			25.00	35.00
Subtotal			1,225.00	307.14
MISCELLANEOUS				
AGI member society dues			300.00	426.00
GAP contribution			225.00	400.00
GIS International Fellow				5,131.68
Ansari Award			500.00	
EBSCO sample issue program			200.00	
Gifts (unrestricted)	350.00	245.00		
Bank charges			25.00	172.20
Interest	1,000.00	591.05		
Souvenirs	50.00			
Refunds				
Subtotal	1,400.00	836.05	1,250.00	6,129.88
TOTAL	15,695.00	13,200.15	18,525.00	18,852.83

Opening checking balance (1/1/00)
 First Union Bank 25,942.44

Closing checking balance (12/31/00)
 Union Bank of California 2,756.27

Opening savings balances (1/1/00)
 Bank of America: Ansari CD 2,741.93
 Bank of America: Ansari Savings 165.37
 Bank of America: Bristol Fund 813.16

Closing savings balances (12/31/00)
 Union Bank of California 17,376.38
 Bank of America: Ansari CD 2,889.22
 Bank of America: Ansari Savings 167.04
 Bank of America: Bristol Fund 821.31

Total balance (1/1/00) \$29,662.90

Total balance (12/31/00) \$24,010.22

GEOSCIENCE INFORMATION SOCIETY - Operating Budget 2002

The following operating budget for 2002 was approved by the Executive Board in December:

	<u>Income Budgeted</u>	<u>Expense Budgeted</u>
EXECUTIVE BOARD		1,025.00
MEETINGS	800.00	5,900.00
DUES	9,240.00	
PUBLICATIONS	2,915.00	6,900.00
REPRESENTATIVES/APPOINTEES		525.00
COMMITTEES		850.00
MISCELLANEOUS		
AGI member society dues		425.00
GAP contribution		400.00
GIS International Fellow	6,000.00	6,000.00
Ansari Award		500.00
Gifts (unrestricted)	250.00	
Bank charges		150.00
Interest	200.00	
TOTAL	<u><u>\$19,405.00</u></u>	<u><u>\$22,675.00</u></u>

GIS COMMITTEES: PRELIMINARY LISTS

Archives

Mary Krick, Chair (2000-2002)
Lura Joseph (2002-2004)
Lois Pausch (2000-2002)

Best Paper Award

Thelma Thompson, Chair (2001-2003)
Renee Davis (2002-2004)
Chip Green (2002-2004)
John Hunter (2001-2003)
John Kawula (2002-2004)

Best Reference Work (Mary B. Ansari Award)

Janet Norris, Chair (1998-2004)
Lisa Fish (2002-2004)
Linda Musser (2000-2002)
Linda Newman (2001-2003)
Jim O'Donnell (2002-2004)
Sally Scott (1998-2002)
Charles Weston (2000-2002)

Collection Development Issues

Charlotte Derksen, Chair (2001-2003)
James Anderson (2002-2004)
Barbara DeFelice (2000-2002)
Steve Hiller (2001-2003)
Janice Jaguszewski (2002-2004)

Digital Data

Adonna Fleming, Chair (2001-2003)
Katie Frohberg (2000-2002)
Suzanne Taylor (2002-2004)
Dorothy Tao (2002-2004)

Exhibits

April Love, Chair (2001-2002)
Dona Dirlam (2002-2004)
Barbara Haner (2002-2004)
Mary Krick (2002-2004)
Sally Scott (2001-2003)

GeoRef User's Group Steering Committee

Nancy Blair, Chair (1997-2004)
John Hunter (2002-2004)
Jane Ingalls (2001-2003)
Andrea Twiss-Brooks (2002-2004)
Penny Whitten (2002-2004)

Guidebook Standards

Carol LaRussa, Chair (2002-2004)
Patricia Gaspari-Bridges (2002-2004)
James P. Mehl, Jr. (2001-2003)
Lorraine Pellack (2002-2004)
Karen Piquene (2000-2002)

International Initiatives

Claren Kidd, Chair (2001-2003)
Chip (Julian) Green (2002-2004)
Dena Hanson (2002-2004)
Shaun Hardy (2001-2003)
Dorothy McGarry (2002-2004)
Nora Tamberg (2000-2002)

Membership

Connie Manson, Chair (2002-2004)
Miriam Kennard (2002-2004)
Sally Scott (2002-2004)
Elizabeth Wallace (2002-2004)

Nominating

Sharon Tahirkheli, Chair (2002)
Martha Andrews (2000-2002)
David Lepse (2000-2002)
Clara McLeod (2002-2004)

Union List of Field Trip Guidebooks

Lura Joseph, Chair (2002-2004)
Charlotte Derksen (2002-2004)
Angela Gooden (2002-2004)
Carol Messick (2002-2004)
John Mulvihill (2002-2004)
Jim O'Donnell (2002-2004)
Caryl Shields (2000-2002)
Louise Zipp (2000-2002)

Reviewers:

Regina Frackowiak (2000-2002)
Dorothy McGarry (2002-2004)

Website Advisory Committee

Edward Lener, Chair (2001-2003)
Shaun Hardy (2002-2004)
Joanne Lerud (2001-2003)
Jim O'Donnell, Webmaster (1998-2004)

NEWS AND ANNOUNCEMENTS

Free Site-License Access to the Canadian Mineralogist

Institutional subscribers to *The Canadian Mineralogist* can now receive site-license access to the electronic version at no additional cost. The institutional subscription rate is \$390/year for 2002. If you subscribe for the first time in 2002, you will have access to the 2001 electronic files as well. All 2000 issues are available as sample copies. Subscribers can contact them at mac.amc1@sympatico.ca to set up access through IP address recognition.

Their website, at www.mineralogicalassociation.ca has additional information.

GEOSCIENCE JOURNAL PRICES

compiled by Michael M. Noga

This list of journal prices is a revision of the list that was distributed at the Boston meeting. Prices come from invoices, serial vendor databases, publisher's web sites, and journal issues. Prices vary, depending on the subscription source and payment date, especially for journals not priced in US dollars. Each journal price history comes from a consistent source as much as possible.

Journals were included on the list if they fit two criteria: 1) the subject fits broadly into the geosciences; and 2) sufficient price data were available. The latest title of each journal is used.

Title	1997	1998	1999	2000	2001	2002	% chg 99/00	% chg 00/01	% chg 01/02
AAPG Bulletin	140	140	280	280	280	280	0	0.0	0.0
AAPG Explorer	50	50	50	55	55	63	10	0.0	14.5
American Mineralogist	320	320	430	430	480	530	0	11.6	10.4
Annales de Paleontologie	372	408	407	427	455	485	4.9	6.6	6.6
Annales Geophysicae	1124	1124	1317	1380	1477	990	4.8	7.0	-33.0
Antarctic Science	236	322	330	340	340	364	3	0.0	7.1
Applied Geochemistry	430	499	584	657	823	877	12.5	25.3	6.6
Arctic and Antarctic Alpine Res	90	90	95	100	100	125	5.2	0.0	25.0
Atlantic Geology	48	60	60	60	60	60	0	0	0.0
Australian Journal of Earth Sci	513	560	590	640	685	690	8.5	7.0	-57.2
Basin Research	340	540	592	585	585	575	-1.2	0.0	-1.7
Biogeochemistry	874	874	990	1046	1309	1427	5.7	25.1	9.0
Boreas	179	189	199	210	215	226	5.5	2.4	5.1
Bulletin of the Seismol Soc of Am	260	270	280	300	320	350	7.1	6.7	9.4
Bulletin of Volcanology	596	596	643	675	722	786	5	7.0	8.9
Canadian Mineralogist	310	310	340	340	340	340	0	0.0	0.0
Carbonates and Evaporites	57	61	61	61	65	68	0	6.6	4.6
CATENA	787	810	784	917	979	1043	17	6.8	6.5
Chemical Geology	2444	2457	2379	2558	2973	3168	7.5	16.2	6.6
Clay Minerals	160	175	191	208	208	223	8.9	0.0	7.2
Clays and Clay Minerals	185	190	195	200	205	220	2.5	2.5	7.3
Comptes Rendus de Ac Sci: E P Sci	589	614	598	636	662	676	6.4	4.1	2.1
Computers & Geosciences	1355	1443	1454	1563	1668	1777	7.5	6.7	6.5
Continental Shelf Research	1162	1312	1370	1473	1644	1751	7.5	11.6	6.5
Contrib of Mineral & Petrology	2707	2707	2698	2829	2971	3017	4.9	5.0	1.5
Cretaceous Research	555	579	675	714	722	774	5.8	1.1	7.2
Deep Sea Research Pts. I & II	2431	2775	2796	3142	3629	4068	12.4	15.5	12.1
Doklady Earth Science Sections	2287	2515	2691	2905	3170	3455	8	9.1	9.0
Earth & Planetary Science Letters	2333	2471	2490	2677	2857	3043	7.5	6.7	6.5
Earth-Science Reviews	648	819	825	887	947	1009	7.5	6.8	6.5
Earth Sciences History	50	50	50	50	50	70	0	0.0	40.0
Ecologiae Geologicae Helvetiae	505	706	534	573	612	635	7.3	6.8	3.8
Economy Geology	135	145	145	145	160	175	0	10.3	9.4
Engineering Geology	704	1000	1063	1143	1219	1298	7.5	6.6	6.5
Environmental & Eng Geoscience	125	125	125	125	125	135	0	0.0	8.0
Environmental Geology	597	615	771	969	1037	1297	25.7	7.0	25.1
Eos	315	340	357	369	402	440	3.4	8.9	9.5
Estuarine Coastal and Shelf Science	1072	1279	1397	1539	1541	1650	10.2	0.1	7.1
Evolution	160	170	170	170	190	250	0	11.8	31.6
First Break	505	526	584	607	637	643	3.9	4.9	0.9
Gems and Gemology	65	65	70	70	72	80	0	2.9	11.1

Geochemistry International	1800	1980	2138	2890	2940	2940	35.2	1.7	0.0
Geochimica et Cosmochim Acta	1295	1410	1530	1644	1755	1869	7.5	6.8	6.5
Geobios	180	180	180	180	180	145	0	0.0	-19.4
Geoderma	1667	1707	1654	1778	1897	2020	7.5	6.7	6.5
Geodinamica Acta	250	245	296	310	335	305	4.7	8.1	-9.0
Geofisica Internacional	70	70	70	70	70	80	0	0.0	14.3
Geoforum	575	630	668	718	766	816	7.5	6.7	6.5
Geografiska Annaler A: Phys Geog	128	148	160	171	181	189	6.9	5.8	4.4
Geolog	15	15	15	15	25	25	0	66.7	0.0
Geological Magazine	312	324	338	354	354	412	4.7	0.0	16.4
Geology	350	350	355	355	387	450	0	9.0	16.3
Geology Today	234	271	296	326	344	348	10.1	5.5	1.2
Geo-Marine Letters	350	368	447	469	502	539	4.9	7.0	7.4
Geomicrobiology Journal	199	199	295	330	368	602	11.9	11.5	63.6
Geomorphology	1185	1195	1264	1359	1451	1666	7.5	6.8	14.8
Geophysical Journal International	1043	1229	1355	1485	1545	1545	9.6	4.0	0.0
Geophysical Prospecting	501	501	563	607	653	711	7.8	7.6	8.9
Geophysical Research Letters	826	879	985	1180	1285	1405	19.7	8.9	9.3
Geophysics	250	280	280	280	280	350	0	0.0	25.0
Geoscientist	82	95	100	107	114	122	7	6.5	7.0
Geotectonics	435	487	528	580	650	710	9.8	12.1	9.2
Geothermics	628	734	803	863	921	981	7.5	6.7	6.5
Global and Planetary Change	917	922	893	960	1024	1280	7.5	6.7	25.0
Global Biogeochemical Cycles	275	295	318	440	484	528	3.8	10.0	9.1
Global Environmental Change	368	408	452	583	622	663	29	6.7	6.6
Grana	285	295	305	320	324	249	4.9	1.3	-23.1
GSA Abstracts with Programs	113	129	129	129	140	120	0	8.5	-14.3
GSA Bulletin	350	350	350	355	387	450	1.4	9.0	16.3
Holocene	384	537	569	632	689	723	11.1	9.0	4.9
Icarus	1572	1830	2070	2777	2500	2663	34.2	-10.0	6.5
International Journ of Earth Sci	441	460	552	587	628	709	6.3	7.0	12.9
International Journ of Coal Geology	802	1138	1348	1449	1547	1648	7.5	6.8	6.5
International J of Rock Mech/Min Sci	1419	1616	1767	1894	2021	2153	7.2	6.7	6.5
Island Arc	369	460	485	526	560	600	8.4	6.5	7.1
Israel Journal of Earth Sciences	200	210	210	210	210	260	0	0.0	23.8
Izvestiya Physics of Solid Earth	638	714	775	850	952	1040	9.7	12.0	9.2
Journal of African Earth Sciences	984	1172	1576	1694	1808	1926	7.5	6.7	6.5
Journal of Applied Geophysics	704	690	668	834	891	949	24.9	6.8	6.5
Journal of Asian Earth Sciences	663	721	783	842	898	957	7.5	6.7	6.6
Journal of Atmos & Sol-Terr Phy	2014	2190	2270	2440	2598	2767	7.5	6.5	6.5
Journal of Coastal Research	135	145	145	145	145	155	0	0.0	6.9
Journal of Foraminiferal Research	80	80	80	80	80	85	0	0.0	6.3
Journal of Geochemical Exploration	1139	968	896	1049	1119	1192	17.1	6.7	6.5
Journal of Geodesy	540	571	675	678	725	823	0.4	6.9	13.5
Journal of Geodynamics	741	914	1086	1166	1245	1326	7.4	6.8	6.5
Journal of Geology	86	86	96	109	113	124	13.5	3.7	9.7
Journal of Geophysical Research	4310	4598	4965	5290	5800	6400	6.6	9.6	10.3
Journal of Geosci Education	33	33	55	55	55	75	0	0.0	36.4
Journal of Hydrology	3475	3621	3508	3772	4025	4287	7.5	6.7	6.5
Journal of Metamorphic Geology	530	560	610	695	765	970	13.9	10.1	26.8
Journal of Micropalaeontology	117	123	129	135	145	155	4.7	7.4	6.9
Journal of Molluscan Studies	205	220	250	325	340	366	30	4.6	7.6
Journal of Paleontology	99	99	110	113	116	128	2.7	2.7	10.3

Journal of Petroleum Technology	45	45	45	45	45	60	0	0.0	33.3
Journal of Petrology	525	595	700	760	800	875	8.6	5.3	9.4
Journal of Sedimentary Res	180	180	180	180	195	210	0	8.3	7.7
Journal of Seismology	253	247	265	279	298	325	5.3	6.8	9.1
Journal of South Amer Earth Sci	467	508	597	701	749	798	17.4	6.8	6.5
Journal of Structural Geology	936	1018	1036	1114	1189	1266	7.4	6.7	6.5
Journal of the Atmos Sciences	455	475	495	510	520	545	3	2.0	4.8
Journal of the Geol Soc of London	617	641	673	720	770	824	7	6.9	7.0
Journal of Vertebrate Paleontology	195	195	195	210	250	250	7.7	19.0	0.0
Journal of Volcanol & Geotherm Res	1635	1638	1698	1825	2086	2400	7	14.3	15.1
Limnology and Oceanography	175	175	175	350	350	350	100	0.0	0.0
Lithos	796	802	828	931	994	1146	12.4	6.8	15.3
Marine and Petroleum Geology	1032	1123	1260	1417	1513	1612	12.5	6.8	6.5
Marine Chemistry	1348	1368	1456	1565	1670	1779	7.5	6.7	6.5
Marine Geology	2316	2345	2412	2593	2768	2948	7.5	6.7	6.5
Marine Micropaleontology	889	879	851	915	977	1041	7.5	6.8	6.6
Marine Pollution Bulletin	656	783	821	882	942	1003	7.4	6.8	6.5
Mathematical Geology	555	595	645	720	780	780	11.7	8.3	0.0
Meteoritics and Planetary Science	265	330	360	550	690	830	52.8	25.5	20.3
Micropaleontology	240	240	280	310	310	310	10.7	0.0	0.0
Mineralium Deposita	733	742	922	911	975	1045	-1.2	7.0	7.2
Mineralogical Record	75	75	120	120	120	150	0	0.0	25.0
Mineralogy and Petrology	745	700	837	833	891	955	-0.5	7.0	7.2
Minerals Engineering	725	790	855	962	1027	1094	12.5	6.8	6.5
Mining Engineering	100	110	125	125	125	125	0	0	0.0
Mountain Geologist	34	34	40	40	40	60	0	0.0	50.0
Natural Hazards	428	431	512	495	523	784	-3.3	5.7	49.9
Natural Resources Forum	371	411	437	471	503	536	7.8	6.8	6.6
Nature	495	595	595	650	775	775	9.2	19.2	0.0
Nautilus	45	45	45	45	56	56	0	24.4	0.0
New Zealand J of Geol & Geoph	200	210	210	225	225	225	7.1	0.0	0.0
Oceanologica Acta	344	358	363	370	386	370	1.9	4.3	-4.1
Ore Geology Reviews	519	529	628	675	721	768	7.5	6.8	6.5
Organic Geochemistry	1807	1965	2056	2210	2359	2513	7.5	6.7	6.5
Origins of Life & Evol of Biosphere	350	354	414	400	424	462	-3.4	6.0	9.0
Palaeo, Palaeo, Palaeo	2528	2586	2553	2745	2929	3120	7.5	6.7	6.5
Palaios	165	165	165	165	165	175	0	0.0	6.1
Paleobiology	65	65	65	69	72	80	6.1	4.3	11.1
Paleoceanography	275	280	299	319	329	358	6.7	3.1	8.8
Paleontological Journal	1084	1192	1281	2075	2262	3315	62	9.2	46.6
Petroleum Geoscience	195	217	229	212	227	243	-7.4	7.1	7.0
Petrology	769	839	906	980	1069	1165	8.2	9.1	9.0
Physical Geography	279	289	289	294	309	339	1.7	5.1	9.7
Physics and Chem of the Earth	830	1077	1636	1760	1878	2000	7.6	6.7	6.5
Physics and Chemistry of Minerals	1173	1173	1320	1469	1571	1679	11.3	6.9	6.9
*Physics of the Earth & Planet Inter	1826	1845	1785	1919	2048	2181	7.5	6.7	6.5
Planetary and Space Science	1926	2096	2173	2336	2493	2655	7.5	6.7	6.5
Powder Diffraction	95	105	105	105	105	105	0	0.0	0.0
Precambrian Research	1741	1759	1703	1830	2032	2164	7.5	11.0	6.5
Proceedings of Geologists Assoc	161	169	184	197	217	230	7.1	10.2	6.0
Proceedings of Yorkshire Geo Soc	109	114	122	129	137	147	5.7	6.2	7.3
Progress in Oceanography	900	1094	1286	1608	1962	2090	25	22.0	6.5
Progress in Physical Geography	229	256	271	312	340	371	15.1	9.0	9.1

Pure and Applied Geophysics	1844	1738	1986	2092	2236	2295	5.3	6.9	2.6
Quarterly J of Eng Geo & Hydrogeo	304	307	322	345	369	413	7.1	7.0	11.9
Quaternary International	563	614	691	743	792	844	7.5	6.6	6.6
Quaternary Science Reviews	798	1014	1151	1324	1413	1505	15	6.7	6.5
Radiocarbon	115	118	125	120	120	160	-4	0.0	33.3
Remote Sensing of Environment	1398	1564	1660	1777	1896	2180	7	6.7	15.0
Review of Paleobotany & Palynol	1574	1552	1503	1616	1724	1836	7.5	6.7	6.5
Reviews of Geophysics	250	265	280	280	280	300	0	0.0	7.1
Rock Mech and Rock Eng	228	228	259	278	299	320	7.3	7.6	7.0
Rocks & Minerals	n/a	n/a	74	74	84	91	0	13.5	8.3
Science	260	295	325	340	370	390	4.4	8.8	5.4
Scottish Journal of Geology	136	142	150	159	170	182	6	6.9	7.1
Sedimentary Geology	1944	2115	2046	2199	2347	2500	7.5	6.7	6.5
Sedimentology	588	729	802	835	809	808	4.2	-3.1	-0.1
Seismological Research Letters	85	85	90	90	90	108	0	0.0	20.0
Shale Shaker	30	30	30	30	30	30	0	0.0	0.0
Soil Science	179	195	215	236	261	305	9.7	10.6	16.9
Soil Science Society of Amer J	137	195	215	215	215	247	0	0.0	14.9
Stratigraphy and Geological Correl.	769	839	908	980	1068	1165	7.9	9.0	9.1
Surveys in Geophysics	447	426	498	483	511	557	-3	5.8	9.0
Tectonics	392	409	429	444	483	528	3.5	8.8	9.3
Tectonophysics	3267	3362	3349	3600	3842	4092	7.5	6.7	6.5
Terra Nova	433	502	537	558	563	558	3.9	0.9	-0.9
Water Research	2516	2516	3243	3486	3721	3963	7.5	6.7	6.5
Water Resources Research	680	720	720	845	919	980	17	8.8	6.6

n/a = not available or not applicable

Average Price Change = 7.37 6.64% 8.79%
%

LITERATURE REVIEWS

by

Carol J. La Russa

The *Journal of the American Society for Information Science and Technology* has published a special issue on web research which includes articles on web searching, web pages, and web agents. One article by Wallace Koehler describes a continuing study of web page longevity. He concludes that the half-life of a web page is about two years, that content changes less over time, and that pages with top-level domains like edu, org, and mil are more likely to last than those with com, gov, and other domains. ("Web Page Change and Persistence: A Four-Year Longitudinal Study," vol. 53, no. 2, p. 162-171, 2002).

That same issue includes article by C. Nadine Wathen and Jacquelyn Burkell titled "Believe It or Not: Factors Influencing Credibility on the Web." Their model proposes that users make quick judgments when first looking at a site by looking at the appearance of the site, its interface, and its organization. Then users try to determine the quality of the information by looking for evidence of expertise for the site creators. (p. 134-144).

Also on the subject of web sites, John Matylonek has

some advice on how to design Web sites for the complicated information needs of libraries. He suggests that each page have an objective or task that should be part of task flow that leads to successful outcomes. Designers should measure the success of design changes by establishing objectives, determining criteria for success, developing a baseline, selecting a benchmark, comparing the results to objectives, and acting on the results. Data can be obtained through surveys and by looking at which pages are used the most. ("Design of Complex Library Web Sites," *Transforming Traditional Libraries*, vol. 1, no. 2, 2001, www.lib.usf.edu/mdibble/ttl/).

Robert E. Apfel describes a new financial model for electronic journals in his article titled "ARLO: a Free, Peer-reviewed Electronic Journal That Is Not Free." Apfel edits *Acoustics Research Letters Online* (ARLO) which is published by the Acoustical Society of America. ARLO article authors must pay \$350 when their articles are accepted to cover peer review, editing, rapid publication, archiving, and Web dissemination without charge to readers. (*Serials*

Review, vol. 27, no.2, 2001, p. 1-7).

In an article in *Online Information Review* Linda Ashcroft and Stephanie McIvor discuss the challenges of both managing electronic journals and educating users in their use in academic environments. After describing some previous research they describe the issues which are leading to new research including: promotion and evaluation of electronic journals, uptake of electronic journals, the changing role of serials librarians, cost of electronic journals and consortia purchasing, and the relationship between libraries and library publishers. Ashcroft and McIvor conclude with a description of the different skill sets serials librarians need to deal with electronic journals. They need skills dealing with management of change, information technology, and marketing. ("Electronic Journals: Managing and Educating for a Changing Culture in Academic Libraries," vol. 25, no. 6, 2001, p. 378-387).

Ana Arias Terry writes about reference linking in her article in *Library Hi Tech*. Reference linking of online sources is important because it provides great benefits to users by making access easier and because it enriches the research experience by showing relationships between documents. Issues that need to be addressed include, deciding what should be linked to, which copy to link to, copyright and access issues, and persistence of object identification. Projects dealing with these issues include: the Dynamic Delegation Discovery System which creates a Uniform Retrieval Number that can be passed on to a resolver that will return an appropriate URL or other locator; the Digital Library Initiative of UICUs InterSpace Project that provides indexing of multimedia collections for possible use as a tool in reference-linking; the Jointly Administered Knowledge Environment (jake) which is an open system tool for locating, managing, and linking publications; CrossRef which is a product of the Publishers International Linking Association and is used by 62 publishers to provide reference-linking; SFX from Ex Libris which is like CrossRef but it enables libraries themselves to determine where to link; and the

Digital Identifier (DOI) which has been created by the DOI Foundation to provide a system for identification and is used by CrossRef and other systems. The article gives examples of commercial applications of reference-linking including Catchword, MCB University Press, and Cambridge Scientific Abstracts. Secondary publishers will need to start providing links to the primary literature referenced in their texts. ("Reference-Linking: Today's Realities, Tomorrow's Promises", vol. 9, no. 2, 2001, p. 125-132).

Bill Crowley argues in his article in *College & Research Libraries* that administrators and accreditors may soon perceive academic librarians as no longer necessary because librarians have been so successful at providing online information resources for students and faculty. Academic librarians could emulate the National Foundation for Infantile Paralysis that was created to eliminate polio. When it succeeded, rather than disbanding, it adopted a new, less-attainable goal of combating birth defects. One strategy for academic librarians might include moving them from reference desks to classrooms while also collaborating more closely with researchers. ("Tacit Knowledge, Tacit Ignorance, and the Future of Academic Librarianship," vol. 62, no. 6, 2001, p. 565-4).

Stacy Kimmel and Jenne Heise of Lehigh University describe their experiences implementing online virtual reference services (VRS). Lehigh hoped to use VRS to enable librarians to provide online chat sessions, page push of electronic resource pages, escorted browsing, and applications sharing for their users. They also desired effective patron and agent (i.e. librarian) interfaces. Lehigh looked at six software packages: Liveperson, Convey Systems, Livehelper, CS-LIVE, InstantService, and LiveAssistance which are described in the article. InstantService was chosen. A pilot program has been offered since the summer of 2001 and the library plans to continue the service. ("Being There: Tools for Online Synchronous Reference," *Online*, Nov.-Dec. 2001, p. 30-39).

USGS PUBLICATIONS NEWS,

by Nancy Blair, Chief Librarian

The USGS has requested that libraries destroy CD-ROM copies of Open-File 99-248, *Source-area Characteristics of Large Public Surface-water Supplies in the Conterminous United States*. Federal government depository libraries have already received a letter from the Superintendent of Documents with directions to destroy their copies. A few other USGS Web reports with sensitive location information have also been removed. The web address for each of these has a note explaining its removal and someone to contact for further information. The CD-ROM open file and Web reports are expected to be eventually replaced. The status of these reports will be reviewed at regular intervals in the next few months. The information itself will not be

destroyed and will be available to other agencies and organizations that need the data. Nancy Blair, Chief Librarian, will be glad to talk with anyone concerning these reports.

I have been researching USGS series issued in parts to try to determine which have been completed or which are still open. A few of these in the Bulletin series are:

--B 1842 (B, C, D, F published): Considered closed. Both volume editors have retired.

--B 1917 (published through T): Considered closed. Volume coordinator has retired.

--B 1980 (only A published): Considered closed. Both volume editors have retired.

--B 1988 (B-K published): Chapter A is still coming within

a year or so. A will be the final chapter.

-- B 1989 (A-I published): It is closed. No more chapters will be coming.

-- B 2000 (B-P): Chapter A is still expected. No word yet on when A is to be submitted for publication, or about the end of the series.

-- B 2094 (published through G): No information yet.

Some of the discontinued USGS series are:

--Coal investigations

--Geologic map indexes for [state]

--Geologic quadrangle maps

--Geophysical investigations (GP) maps

--Interagency Committee on Water Data: Notes on sedimen-

tation activities

--Oil and gas investigations charts

--Oil and gas investigations maps

--Land use and land cover maps

--Outer continental shelf standards GSS-OCS

--Slope maps

--Stratigraphic notes

--U.S. Geological Survey, Fiscal year yearbook

--Water-supply papers

I hope to complete (or at least add to) the series parts and discontinued series list in the next issue of the Newsletter.

JOB ANNOUNCEMENT

Map/GIS Librarian, University of Tennessee, Knoxville

Appointment Rank: Assistant or Associate Professor

Salary: Assistant Professor minimum: \$35,000; Associate Professor minimum: \$42,000

Available: May 15, 2002

The University of Tennessee Libraries seeks a highly motivated professional to join the Reference & Instructional Services team as the Map/GIS librarian and subject liaison to Geography. This position has responsibility for the Map Library, a collection of approximately 300,000 sheet maps and other cartographic resources housed in a 7000 sq. ft. space in the James Hoskins Library building. The Map/GIS librarian will emphasize outreach and user education for faculty and students throughout the Knoxville campus who are in need of cartographic and geospatial resources. This individual will define and shape the future of GIS library services in close collaboration with the Social Science Data Services librarian, the Government Documents Coordinator, and other subject librarians.

Environment: The University of Tennessee is a Carnegie Research Level One institution and enrolls approximately 26,000 students from the United States and over 100 other countries. UT is one of 27 higher education institutions holding the distinction of being both a land-grant institution and state university. The UT Libraries, with an annual budget exceeding \$11 million, holds 2 million volumes and receives approximately 10,000 current serials. Over three hundred persons are employed, including 50 librarians. The UT Libraries are a selective U.S. Federal Depository site and the Map Library serves as an Earth Science Information Center (ESIC) for the state of Tennessee.

Additional information about this position and the UT community is available at <http://toltec.lib.utk.edu/~lss/search/maplib.html>.

Responsibilities: The Map/GIS librarian reports to the Head, Reference & Instructional Services and participates in the work of the department to plan services and to implement programs and projects. Primary responsibilities include:

▮ providing traditional and digital reference services in both the Main Library (Hodges) and the Map Library (Hoskins),
▮ providing subject specific reference, consultation, and instruction for users needing assistance with digital and print cartographic resources,

▮ participating in collection development and management activities for geography and maps including selecting, organizing, and assessing materials in all formats,

▮ organizing a team effort to plan and implement GIS user services library-wide,

▮ coordinating user education programs and staff training activities related to geospatial data and mapping in order to better integrate GIS skills into instruction and learning campus-wide,

▮ providing oversight of Map Library operations, including supervision of 1 FTE staff member.

Qualifications: Required: MLS from ALA-accredited program. Knowledge of map librarianship and GIS services. Commitment to quality user services for a diverse clientele. Excellent interpersonal skills and the ability to function effectively in a collaborative work setting. Evidence of excellent oral and written communication skills with the potential to excel as an instructor and trainer. Ability to work in a highly networked environment and an interest in new technologies and their application in academic libraries. Commitment to scholarship and professional growth.
Preferred: Degree in a geoscience or related field and demonstrated proficiency with GIS software, spatial data, and cartographic design concepts. An understanding of government documents, cataloging practices, and metadata creation. Experience in an academic library.

Salary and Benefits: Minimum for Assistant Professor, \$35,000; for Associate Professor, \$42,000. Faculty rank and status; twelve-month, tenure-track appointment. Library faculty must meet University requirements for promotion and tenure. Excellent benefits include 24 annual leave days; choice of state retirement plan or TIAA/CREF with non-refundable contributions paid for the employee by the University; optional group health and life insurance plans.

Tuition remission is available for all university employees; partial undergraduate tuition remission is available to dependent children and spouses of UT employees.

Review of applications will begin March 15, 2002 and will continue until the position is filled. Send letter of application, a current resume, and the names, addresses, e-mail addresses, and telephone numbers of three recent references to: Jill Keally, Head, Library Support Services, 1015 Volunteer Blvd., Knoxville, TN 37996-1000, fax 865/974-4696.

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