The System of Scholarly Communication: Is It In Crisis?
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In November, the Fondren Library was fortunate to have Ann Okerson, Director of the Office of Scholarly and Academic Publishing of the Association of Research Libraries (ARL), on campus to participate in our first of what we hope will be a regular Library Symposium Series. Ms. Okerson's remarks focused on the current crisis in scholarly communication.

In addition to meeting with Fondren Library staff, Ms. Okerson met over lunch with more than 25 faculty serving as editors or editorial board members of various journals.

Her afternoon presentation to the Rice community was followed by comments from a panel of faculty members: Albert Van Helden, George Pharr, James Pomerantz, and Duane Windsor. Their comments, and the subsequent audience discussion, dealt with the escalation of journal prices and the impact of electronic publishing.

It is crucial that all of us at Rice understand this significant problem:

* Between 1981 and 1990, the Consumer Price Index (CPI) rose by 51%, while the cost of periodicals for U.S. academic libraries rose by 89%.
* Between FY 86 and FY 91, the number of serial titles purchased by member libraries in the ARL declined by 1% while their expenditures for serials rose by 52%.
* Also between FY 86 and FY 91, the number of monographs purchased by member libraries in ARL declined by 16% while expenditures for monographs increased by 19%.
* At the same time that academic libraries were reducing monographic purchasing, publishing output dramatically grew from 72,000 titles in 1981 to 105,000 in 1991. In FY 91, Rice purchased 22,152 volumes or only 21% of the total academic publishing output.

Why has this situation occurred?

Many reasons have been given for the increase in journal costs. One provided by foreign publishers is the fluctuating and, in recent years, declining value of the dollar. In addition, publishers maintain that publication costs such as printing, paper, and labor have risen faster than the CPI.

However, a 1989 report commissioned by ARL, maintains that profits for the four largest journal publishers in the world grew dramatically during the 1980's.

Other reasons center on the nature of scholarly communication itself. Between the mid-1970's and 1980's, the number of scientists in the U.S. doubled. The publishing output of these scientists
Expansion Plans for Fondren Express

**Journal Current Awareness Available**

**Delivery of Books Planned**

Fondren Express, Fondren Library’s document delivery service for Rice University faculty and administrators, is busy planning expanded services to include both a current awareness service and delivery of books to campus offices.

During its first semester of operation Fondren Express began providing delivery by campus mail of photocopies of materials owned by Fondren Library.

Recently we added a Table of Contents service, whereby you can submit a list of journal titles for which you will receive copies of the tables of contents just as the journals go on the shelves in Fondren Library. The busy professor or administrator can review these at his or her convenience, coming to Fondren Library only for those issues of interest (or requesting copies of the article through Fondren Express).

Now, planning for phase three is underway. Rice University faculty and administrators soon will be able to place their book loan and delivery requests with Fondren Express. The book will be checked out to you and then delivered directly to your department. The same conditions for book loans will apply as do now, with materials subject to recall by other library users. Once the book loan service begins, all materials will be delivered daily by courier. When the new book delivery service is initiated, full details will be supplied.

For more information on how Fondren Express can assist you, contact Francine Hernandez, Manager of Fondren Express at campus ext. 2869 or express@library.rice.edu, or Una Gourlay, Director of Community Services at campus ext. 2284.

Una Gourlay
gourlay@library.rice.edu
Director of Community Services

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**Round-The-Clock Access to Library Holdings**

It is no longer necessary to drive across town or even walk across campus in order to search LIBRIS, Fondren Library’s online catalog. Computer technology provides library users with information about Fondren Library’s holdings 24 hours a day from the convenience of the home or office.

Anyone with a personal computer, modem, and communications software can dial into LIBRIS. Searches also can be done from the computers at Mudd Computing Center, SSCL or Owlnet, utilizing Rice University’s campus network. LIBRIS can be searched to identify which books, audiovisuals, government documents, maps, recordings, computer software, and periodicals are held by Fondren Library. In addition, LIBRIS provides information on which books are checked out and when they are due back.

An instructional flyer on remote access to LIBRIS is included with this issue of *News From Fondren*. Library staff will be glad to answer any questions you might have: for help with technical problems call Fondren Library’s Automation Department at ext. 2413 or send an e-mail message to helpline@library.rice.edu. For help finding information in LIBRIS, contact the reference desk at ext. 5113 or via my e-mail address.

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Bibliographic Instruction Librarian
Woodson Research Center Offers Unique Materials to Rice Faculty and Student Researchers

Hidden in a back corner of the first floor of Fondren Library is the Woodson Research Center: home to Fondren Library's collection of rare books and manuscripts, and to the Rice University's archives. Any researcher can discover what rare books are in the Woodson Research Center by consulting LIBRIS, but manuscript collections and archives holdings are currently available only by consulting with staff in the Woodson. The Julian S. Huxley Papers manuscript collection is one of these "hidden" gems.

One of our largest collections, the Huxley Papers contains a variety of materials that document the life of Julian Huxley and his influence on modern science. Huxley has been described as a synthesizer and popularizer of science, as well as an educator who influenced thinking in many areas. This influence can be seen clearly in the large portion of the collection that comprises Huxley’s correspondence with his colleagues, family members, and a host of others numbering over 1,100.

Jane Goodall, a recent speaker for the President’s Lecture series, is one of the many correspondents recorded in the Huxley papers. Other notables include T. S. Eliot, Solly Zuckerman, J. B. S. Haldane, Helen Keller, H. G. Wells, Bertrand Russell, George Bernard Shaw, and Louis Leakey.

The topics mentioned in the correspondence cover as many subjects as there are writers, including biology, religion, philosophy, genetics, cancer research, and animal behavior. Other parts of the collection include manuscripts and typescripts from books and articles written by Huxley, family materials, photographs, and drawings.

Huxley’s career started with research in biology at Oxford, following in the footsteps of his famous grandfather Thomas Henry Huxley. Edgar Lovett’s search for faculty to start the Rice Institute led him to Julian Huxley. Huxley accepted the post of Research Associate in Biology and stayed at Rice until World War I when he returned to England to help the war effort. Rice history buffs will find information about the early days of Rice University in Huxley’s correspondence with Edgar O. Lovett, Joseph Davies, and Radoslav Tsanoff.

After leaving Rice University, Huxley spent time writing, researching, and lecturing. He served as the Secretary of the London Zoological Society just before World War II. Later he was named the first Director General of UNESCO. These positions and his research provided the opportunity to travel to Africa, Russia, and Europe. Photographs, correspondence, and journals in the collection document Huxley’s travels and his work.

In September 1987, Scientia held a symposium on the Rice University campus entitled "Julian Huxley, 1887-1975: Biologist and Statesman of Science." The symposium attracted many researchers interested in the Huxley Papers. Papers presented at the symposium are due to be published this fall.

There’s something of interest for just about anyone in the Huxley Papers and it is all available for researchers who visit the Woodson Research Center.

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Library's Planning Process Proceeds

Initiating a planning process was one item on Beth Shapiro’s agenda when she arrived at Rice University January 1991. At the beginning of the planning process, the entire Fondren Library staff worked together to define our mission. With Dr. Shapiro’s leadership, the mission, goals and objectives for the library as a whole and for each department were agreed upon.

After an intensive two-day retreat, the managers decided on BOOKS AND BEYOND as the planning program’s theme. This theme epitomizes the library of the 1990’s—more than a collection of books, the modern library’s definition also includes services to the community and utilization of new technologies.

As was described in the Spring 1991 issue of News From Fondren, five study groups were established: Access to Special Formats, Organizational Communications, Public Services and Library Image, Collection Development and Management, and a Survey subgroup. Each group was given a charge to guide it in its investigative work. Each task force will prepare a final report that includes findings, methodologies, and recommendations for improving operations.

Each task force has met regularly for months. Methodologies have varied and include literature searches, surveys, and focus groups. Ideas have been subject to discussion in the task forces and throughout Fondren Library. Results of ongoing work include: an analysis of fund allocations over a 15-year period; and a detailed description of special formats in Fondren Library. These efforts recently resulted in preliminary reports that are under review. Final reports of the task forces are expected in March 1992.

The Survey subgroup is preparing questionnaires to assess the perceptions of different user groups. A short survey of non-Rice users of Fondren Library was conducted in November. A longer survey is being mailed to 20% of the student body. A faculty survey, similar in length, but differing somewhat in form and content, is being presented to the Rice faculty through a combination of telephone interviews and mailings.

Fondren Library’s staff hopes to share the results of our first round of formal planning with the Rice community later this year. Implementation of recommendations will follow over a period of time as resources permit. The formal planning process is a time consuming but important activity that we will continue on an ongoing basis.

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What Do You Think?
Library Surveying Users

The Fondren Library is in the process of conducting a study of library use, soliciting patron opinion by means of surveys. We’d like to encourage everyone receiving a survey to invest a few minutes in completing it.

Three different surveys will be used; a short one for non-Rice users of Fondren Library, a longer one for a 20% random selection of the students, and a third, more comprehensive one, to be mailed to all faculty members. As an inducement to participate, every student who returns a completed survey will be eligible to win a $50 gift certificate at the Rice Campus Store.

The surveys will be conducted in January and analyzed in February. The resulting data will be used by Fondren Library’s planning task forces in developing their recommendations.

The current surveys will be compared with a survey conducted in 1983 as part of the University’s Self Study, and will also be used as a basis for future surveys, and for Fondren Library’s contribution to the University Self Study scheduled for 1993.

Heather Phillips
Cataloging Assistant

Books and Beyond...

...paving the way for knowledge
Crisis in Scholarly Communication
(cont'd from p. 1)

significantly affected the number and size of scholarly journals.

According to an article published several years ago in the Chronicle of Higher Education, one journal article is submitted for publication every 30 seconds with more than one million articles published per year in scientific journals.

Also part of the problem is the promotion and tenure system in American higher education which continues to be based upon scholarly publishing productivity. Consequently, more journals are being published and they are getting larger and are published more frequently.

During the last 20 years, university publishing was significantly reduced as universities attempted to save costs. The commercial publishing industry has assumed a greater role in scholarly publishing and is now making us pay greater sums for our own scholarly output.

The scholarly publishing industry also contributes to this situation. There is little direct competition and each year more small publishers are absorbed by large conglomerates. Last year two of the largest publishers, Pergamon and Elsevier, merged. In FY 91, these publishers while accounting for only 2% of our subscriptions consumed 20% of our serials expenditures.

Where do we go from here?

The problem of rising journal costs has been with us for 20 years. While short respites have occurred, it is unlikely that rising costs will disappear.

A recent survey of the membership of the ARL found that this year 54 libraries are planning serials cancellations for an average budget cut of $140,000. Last year, 44 libraries had cancellation projects averaging $122,000.

In protest over what is perceived as uncalled for price increases, Princeton University is canceling 20% of its subscriptions from a British publisher.

During the last several years, we at Rice have been fortunate. Unlike administrators at other research universities, President George Rupp has been committed to maintaining the buying power of the library materials budget. Is it realistic to expect this type of support to continue?

With inflation of books and serials averaging 15% per year, we are looking at budget increments approaching $500,000 per year just to maintain the status quo.

Many faculty have been concerned that our journal holdings are inadequate to support both education and faculty research. In addition, the materials budget historically has not been enhanced when new majors and curriculum adjustments have been implemented. In order to respond to needed enhancements in some areas, it may be necessary to reallocate by pruning our current serials holdings.

Clearly, no library can afford to collect comprehensively in all areas. Further cooperation with other research libraries resulting in access to large numbers of books and serials will have to occur. Ten years ago we borrowed little more than 1,000 items per year. Last year we borrowed nearly 3,000 items. Out of necessity, this figure will continue to rise.

Beyond local tinkering with materials budget allocations, it is essential that all of us in academe become engaged in trying to fix what's wrong with the entire system of scholarly communication.

Locally, we need to work with you to develop solutions to our own particular problems. As a University of Notre Dame publication stated, "... prudence dictates that we do what other libraries are doing: namely, join with faculty members in exploring alternative ways of supporting research.

"How can we best utilize the funds available to provide the information you need, when you need it and in a usable form? Under what circumstances would purchase of article reprints make more economic and academic sense than subscribing to the journal? What potential is there for information transmitted electronically? Can we improve joint decision-making and document delivery sufficiently to make resource sharing work...? What level of price increases should trigger cancellation?"

As we proceed with our planning process and other cooperative efforts with you, we hope to address these questions. In addition, careful reviews of current journal subscriptions will continue so that we can provide the most appropriate collections for your needs and for future generations of Rice faculty and students.

**Did you Know...**

Fondren Library has placed suggestion boxes in various locations throughout the building. The suggestion box on the ground floor in the elevator alcove across from Circulation will be coupled with a bulletin board where the answers to your questions will be posted, along with general updates. We hope these suggestion boxes will make it easier for you to let us know about your needs and concerns...and for us to keep you informed about developments at the Fondren Library.

The Fondren Library is also initiating an electronic bulletin board. Beginning March 1, users of the new system will be able to send a question or comment to us through the campus network. The comments, questions, and answers provided by Fondren Library staff will be grouped by subject and available for review by other users of the system. The new Fondren Library bulletin board is available at e-mail address library@ricevm1.rice.edu. Call ext.2413 for technical assistance in accessing the new bulletin board.
More Research Power with Less Effort

The newest terminal in the Fondren Library reference room provides access to more library material than any of the others. That’s because it’s not a LIBRIS terminal but a workstation containing the holdings for HARLiC (Houston Area Research Library Consortium). Faculty and students may use this workstation to quickly determine holdings for books and journals of 8 local libraries.

Other CD-ROM workstations located throughout the library are providing access to information on music and business literature, as well as text and data for a range of subjects. And to further expand your research to include the resources of other research libraries, library users now may dial into FirstSearch, a database of 22 million books and journals.

HARLiC Catalog

The HARLiC catalog (which includes books, journals, audiovisuals, maps, and computer files) greatly increases the number of titles you can search in one “look-up.” The description for each title includes a listing of all HARLiC libraries (Rice University, Houston Public, University of Houston, Texas A&M, Houston Academy of Medicine, Prairie View A&M, Texas Southern, and University of Texas Medical Branch--Galveston) that own that publication.

Faculty and graduate students easily may obtain materials not owned by Fondren Library through Interlibrary Loan; undergraduates may obtain material through the On-Site Borrowing Program (see p. 7 for information on ILL). Currently, library users cannot dial in to this CD-ROM catalog--it is available only in Fondren Library.

Specialized Subject CD-ROMs

Other new electronic products also are expanding your research capabilities. The Business Information Center now has both the General Business Index and Predicast on CD-ROM. These tools index articles from business and trade journals, and include company information and reports.

The Brown Fine Arts Library has recently added Music Index on CD-ROM and RILM Abstracts on CD-ROM--both index a variety of musical arts journals. As with other CD-ROM indexes, these tools allow you to quickly tailor a search of journal articles and then print or download results for future use.

Finally, a number of additional data sets and full-text electronic tools have been received in the government publications area of Fondren Library. These include: 1990 Census data, federal acquisition regulations (useful for federal grants/contracts) and the National Trade Data Bank/Foreign Traders Index (international trade and economic data, directories of importers, etc.).

FirstSearch

Recently, Fondren Library obtained access to the FirstSearch system: a menu-driven, online database system that describes the books and indexes the journals contained in thousands of libraries. FirstSearch contains material on many subjects. The supplier is offering unlimited free searching through February 1992. If you are planning a literature search you will find this powerful database to be most helpful.

For additional information about these or other research tools, call campus ext. 5113 or send an e-mail message to lowman@library.rice.edu

Kerry Keck
keckker@library.rice.edu
Government Publications Librarian

Barbara Stewart, reference librarian, uses the HARLiC (Houston Area Research Libraries Consortium) catalog to search through eight area libraries at once.
Resources of the World's Libraries at Your Command

Rice University faculty and graduate students aren't limited to the millions of books and journals found in Fondren Library. You may request any title from any library around the world through Fondren Library's Interlibrary Loan office.

You can expect a variety of responses to your request: material commonly may arrive in as few as 3-5 days (for items obtained from a local library), or take several months (for items from foreign suppliers). Overnight delivery of books and fax delivery of articles may be requested if the item is available from a commercial supplier or a library willing to expedite requests.

Published material (books, articles in journals, etc.) is cataloged in libraries and readily located through OCLC (Online Computing Library Center)--a database of more than 22 million items. The item can be requested electronically through OCLC, usually from local libraries, and most libraries will respond to a request within two days.

Unpublished reports are requested from the sponsoring institution, a library with a comprehensive collection in that subject or, when appropriate, from the National Technical Information Service. Dissertations that are not available for loan may be purchased by you.

International Contacts

Requests for foreign publications not owned by U.S. libraries usually go to the country of publication. We can determine the materials owned by some foreign libraries (e.g. the British Library and the National Library of Canada) that are beginning to add their records to the OCLC database. These institutions accept electronic requests, but most overseas requests are sent via mail or telex to a central national library which refers the request as necessary. Frequently used overseas libraries include the Staatsbibliothek Preussischer Kulturbeitz Zentralkatalog, Berlin; the Bibliotheque Nationale, Versailles; and the Lenin Library, Moscow.

Center for Research Libraries

We are a member of the Center for Research Libraries, which should be considered an extension of Fondren Library. CRL grew from deposits and cooperative collection efforts of member libraries. Its holdings reflect the distinct collections that emerged from members' deposits of lesser-used material and from an initiative to collect as comprehensively as possible.

When the Agricultural Trade Development and Assistance Program was amended in 1962, CRL began to receive the output of many developing nations' presses. "Under the Special Foreign Currency Program, certain foreign countries could purchase U.S. agricultural commodities with their own currencies. One of the uses of the accrued foreign currency was to purchase books, periodicals and documents of the country for deposit in U.S. research libraries."

(CRL's Handbook, p. 100)

A partial list of CRL's collections includes African, foreign dissertations, and microform sets (including National Archives and census material). The CRL Handbook (kept at Fondren Library's reference desk) describes collections and lists microform sets.

Local Cooperation

Fondren Library also maintains other institutional relationships. Agreements with other libraries allow us to exchange books and obtain copies at no charge. Rice has loan agreements with the HARLiC (Houston Area Research Library... (cont'd on p. 8)
World's Libraries
(cont'd from p. 7)

Consortium) libraries, University of Texas, Texas Tech, University of New Mexico, New Mexico State University, University of Arizona, Arizona State University, University of Oklahoma, Oklahoma State University, and with most of the research libraries that are members of the Association for Research Libraries.

In the future, interlibrary loan will make increasing use of Internet to transmit and receive journal articles. In the next year we will install equipment and software that will allow us to receive article copies by electronic transmission.

We also expect to develop an e-mail option for you to submit requests—meanwhile, we encourage you to add your e-mail address to ILL request forms so that we may communicate with you more easily.

Please contact interlibrary loan at ext.2284 or via e-mail for additional information.

Jennifer Geran
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Interlibrary Loan Librarian

Fondren Library Locations and Frequently Called Numbers

Reference 285-5113
(1st floor Fondren Library)
Business Info. Center 527-6062
(1st floor Herring Hall)
Circulation 527-4021
(1st floor Fondren Library)
Computer Ref. Area 527-4076
(1st floor Mudd Laboratory)
Fine Arts Library 527-4832
(3rd floor Fondren Library)
Government Pubs. 285-5483
(Basement Fondren Library)
Woodson Research Center 527-8101
(1st floor Fondren Library) ext.2586

Semester and Holiday Library Hours

For Information about regular and holiday hours, call 527-4800

Jennifer Geran and Douglas Klopfenstein will find a source from which to borrow the most elusive journal article or book.
The following instructions are provided for future reference in accessing LIBRIS, Fondren Library's online catalog, utilizing Internet connections.

SEARCHING LIBRIS USING INTERNET CONNECTIONS

From a Macintosh in the Mudd Lab which is networked to the Internet backbone.

- Click open the communications folder.
- Open the TN 3270-MacTCP folder.
- Double click on the library icon.
- You should now have Fondren Library’s VM screen.
- Tab to the command line and type `libris <enter>`. You will get a screen with the message “dialed to libris.”
- Press the clear key to obtain the LIBRIS introductory screen.

To disconnect from LIBRIS, select quit from the pull-down menu marked file.

From an IBM PS/2 in the Mudd Lab which is networked to the Internet backbone.

- Select communications from the menu and press enter.
- Select remote 3270 emulation login elsewhere and press enter. You should now have Fondren Library’s VM screen.
- Tab to the command line and type `libris <enter>`. You will get a screen with the message “dialed to libris”.
- Press the clear key to obtain the LIBRIS introductory screen.

To disconnect from LIBRIS, turn off the computer.

From a UNIX Machine

- After logging onto your account, type `TN 3270 library.rice.edu` and press enter. You will get the library VM screen.
- Tab to the command line and type `libris <enter>`. You will get a screen with the message “dialed to libris”.
- Press the clear key to obtain the LIBRIS introductory screen.

To disconnect from LIBRIS, press control `, type quit and press enter.
The following instructions are provided for future reference in accessing LIBRIS, Fondren Library’s online catalog, when dialing in via telephone line and modem, or via data terminal interface (DTI).

DIALING INTO LIBRIS

Equipment Needed
Microcomputer
Modem or Data Terminal Interface (DTI)
Communications software

The microcomputer must have software which will emulate a common terminal such as ADM3A, VT100, QVT-201 or VIS200. Examples of communications software include YTERM, PC-TALK, ProComm and Smartcom for the IBM and Red Ryder and MacTerminal for the Macintosh.

Settings
The communications software must be set to the following parameters:

- Parity: even
- Data: 7 bits
- Stop: 1 bit
- Baud: 300, 1200, or 2400 baud.

Calling Fondren Library
Refer to your modem and software instructions to determine how to make a call. The phone number is: 527-6070.

If you are using a DTI, at the prompt, “call, display or modify?” respond: call library.

Connecting
When your modem gives you the “online” or “connected” message, or when your DTI ready light comes on, press the return key twice.

You will receive the message, “enter terminal type:” Enter the code for the terminal or terminal emulation you are using and press return.

You should get a blank screen. Press the clear key. (Check your communications software manual to find out which key to use for clear.)

You should now have the LIBRIS introductory screen.

Ending a Session
There is no logoff procedure. Just hang up the phone and disconnect your modem from the phone line or hit disconnect on the DTI.

Help
For help with technical problems, call Fondren Library’s Automation Department at 527-8101 ext.2413. For help finding information in LIBRIS, call the Reference Desk at ext.5113.