

IAT INFOBITS

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About INFOBITS

Infobits is an electronic service of the Institute for Academic Technology's Information Resources Group. Each month we monitor and select from a number of information technology and instruction technology sources that come to our attention and provide brief notes for electronic dissemination to educators.

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REPORTS ON IMPLEMENTING TECHNOLOGY IN EDUCATION

"Training how to use the technology by itself is *not* sufficient. Teachers will only begin to use it when they are shown how to incorporate the technology into their curriculum and lessons." The following articles provide some examples of implementations of technologies in education.

Wellburn, Elizabeth. "The Status of Technology in the Education System: A Literature Review." May 1996.

http://www.etc.bc.ca/lists/nuggets/EdTech_report.html

This is an update of Wellburn's 1991 review of the research literature related to technology and education, tracing changes and similarities across the five year timespan. The author finds that "most of the more current literature is overwhelmingly positive about the potential of a variety of technologies to be powerful components in accomplishing current educational visions."

For more information, contact Elizabeth Wellburn, Technology and Distance Education Branch, Ministry of Education, Skills and Training, British Columbia, Canada; email: ewellbur@cln.etc.bc.ca

Fryatt, A. Margaret. "Helping Teachers Find the On-Ramp to the Information Highway: Meeting the Challenges of Implementation and Training." December 1995. <http://www.oise.on.ca/~mfryatt/training/abstract.htm>

Fryatt's paper, and the resources that accompany it, are intended to provide some insights into possible answers to such questions as, "What are the factors that distinguish successful Internet implementation and training strategies from those that are not successful?" "What models or approaches might be effective in reaching educators?" "What systems/resources are necessary to support and extend the training process?"

For more information, contact Margaret Fryatt, Ontario Institute for Studies in Education; email:

mfryatt@cln.etc.bc.ca; Web: <http://www.oise.on.ca/~mfryatt/amf.htm>

Chizmar, John F., and David B. Williams. "Altering Time and Space through Network Technologies to Enhance Learning." *CAUSE/EFFECT* vol. 19, no. 3, Fall 1996, pp. 14-21. <http://www.cause.org/information-resources/ir-library/html/cem9634.html>

Using examples from their teaching of economics and the arts at Illinois State University, the authors discuss their experiences of implementing networked technologies to improve student learning opportunities and reduce costs.

For more information, contact John F. Chizmar, Professor of Economics, Illinois State University, Normal, Illinois USA; email: jfchizma@ilstu.edu

or

David Williams, Associate Dean for Research and Technology, Director of the Office of Research in Arts Technology, and Professor of Music in the College of Fine Arts, Illinois State University, Normal, Illinois USA; email: dwilliam@ilstu.edu

CAUSE/EFFECT [0164-534X] is published quarterly by CAUSE, 4840 Pearl East Circle, Suite 302E, Boulder, CO 80301-6114 USA; tel: 303-449-4430; fax: 303-440-0461; email: info@cause.colorado.edu; Web: <http://cause-www.colorado.edu/cause-effect/cause-effect.html>. Subscriptions for individuals at CAUSE member institutions are \$48/year (U.S., Mexico, Canada), \$72/year (other countries). Subscriptions for individuals at non-member institutions are \$96/year (domestic and overseas).

ELECTRONIC PUBLISHING BIBLIOGRAPHY

Version 25 of "Network-Based Electronic Publishing of Scholarly Works: A Selective Bibliography," by Charles W. Bailey, Jr., is now available on the Web at <http://info.lib.uh.edu/pr/v6/n1/bail6n1.html>. This searchable resource presents selected articles, books, electronic documents, and other sources that are useful in understanding scholarly electronic publishing efforts on the Internet and other networks. Most sources have been published between 1990 and the present; however, a limited number of key sources published prior to 1990 are also included. Where possible, links are provided to sources that are available via the Internet. Topics covered include: electronic books and serials; economic, legal, library, and publisher issues; and new publishing models.

Bailey is also founder and editor-in-chief of *The Public-Access Computer Systems Review (PACS Review)*, an electronic journal about end-user computer systems in libraries published by the University of Houston Libraries. *PACS Review* covers topics such as digital libraries, document delivery systems, electronic publishing, expert systems, hypermedia and multimedia systems, locally mounted databases, network-based information resources and tools, and online catalogs. Issues are available on the Web at <http://info.lib.uh.edu/pacsrev.html>.

For more information, contact Charles W. Bailey, Jr., Assistant Director for Systems and Editor-in-Chief of The Public-Access Computer Systems Review, University Libraries, University of Houston, Houston, TX 77204-2091 USA; tel: 713-743-9804; fax: 713-743-9811; email: cbailey@uh.edu; Web: <http://info.lib.uh.edu/cwb/bailey.htm>

SCIENTIFIC PUBLISHING ON THE INTERNET

"In some ways, the Web is the ideal medium for presenting scientific research. References to other research can include a hypertext link that brings the reader immediately to the data being cited. And as the body of electronic literature grows, readers will be able to burrow ever deeper using references within references." In "Wired Science" (*Technology Review*, vol. 99, no. 7, October 1996, pp. 42-51) Herb Brody asserts that "labs around the world are in effect sharing a common chalkboard--the Internet," and the Internet is "modernizing scientific publishing and rendering it more efficient and inclusive." The Web version of the article, which also includes many related links to other Web sites and articles, is available online at <http://web.mit.edu/afs/athena/org/t/techreview/www/articles/oct96/brody.html>

Technology Review [ISSN 0040-1692] is published eight times a year by the Association of Alumni and Alumnae of the Massachusetts Institute of Technology. Subscriptions are available for \$30/year from Technology Review, P.O. Box 489, Mount Morris, IL 61054 USA; tel: 800-877-5230 or 815-734-1116; fax: 815-734-1127; email: trsubscriptions@mit.edu

Back issues are available at *Technology Review's* World Wide Web home page at <http://web.mit.edu/techreview/www/>

PROJECT TULIP AND THE DIGITAL LIBRARY

Project TULIP (The University Licensing Program), a five-year collaborative project of Elsevier Science (publisher of journals in science, technology, and medicine) and nine leading universities in the U.S., that explored the feasibility of providing institutions with networked, online access to scholarly journals, has concluded. The project's final report presents some interesting conclusions:

- Managing large digital collections locally is harder and more expensive than managing a comparable print collection.
- Users will only move to electronic publications when they find the content they need in sufficient quantity. Having journals in electronic form and bringing them to the desktop are necessary, but not sufficient, conditions for the scholarly user.
- Instead of less staff, most universities think they will need more librarians in the future. They will be the ones leading users to all kinds of information on all kinds of media.
- While reading an article from the screen is not practical at this moment, improvements in technology will change this. The infrastructure is expected to become much "deeper and thicker" in the future: greater bandwidth, better delivery mechanisms, more efficient protocols.

The final report, as well as the *TULIP Newsletter* and other project information, is available on the Web at <http://www.elsevier.nl/locate/tulip/>

MEETING THE TECHNOLOGY LITERACY CHALLENGE

The President's Technology Literacy Challenge urges that the nation's students be technologically literate by early in the 21st century. "Getting America's Students Ready for the 21st Century: Meeting the Technology Literacy Challenge: A Report to the Nation on Technology and Education" was released on July 29, 1996, by the U.S. Department of Education. The report outlines the Secretary of Education's plan for meeting the President's challenge and for implementing the Improving America's Schools Act of 1994 (Public Law 103-382) [see <http://www.ed.gov/legislation/ESEA/toc.html>].

The complete report is available on the Web at <http://www.ed.gov/Technology/Plan/>

The U.S. Department of Education and the National Library of Education provide access to many government reports on all levels of U.S. education at <http://www.ed.gov/>.

Another report made available this summer on the Web site is "The Condition of Education 1996," from the National Center for Education Statistics. You can read the report at <http://www.ed.gov/NCES/pubs/ce/>.

SCOUT REPORT FEATURES IAT'S WEB SITE

The *Scout Report* is a weekly electronic publication of Net Scout Services and is provided as a fast, convenient way to stay informed of valuable resources on the Internet. Its purpose is to combine in one place new and newly discovered Internet resources and network tools, especially those of interest to their primary audience: researchers and educators. The service is designed for "Internauts" who want their Internet announcements selectively filtered and summarized once each week. Basic selection criteria include depth of content, author, information maintenance, and presentation. The content of each resource is briefly described.

The IAT's Web site was featured in the September 13, 1996, issue of the *Scout Report*. The report mentioned two of

the projects of the IAT Information Resources Group: the [IAT Infobits](http://www.iat.unc.edu/cybrary/cybrary.html) archive and the "Cybrarian's Desk" (at <http://www.iat.unc.edu/cybrary/cybrary.html>).

The *Scout Report* is available by email. Subscription information and back issues are available at <http://rs.internic.net/scout/report/>

IAT LIBRARIAN'S LINKS

The Information Resource Guide, "Library-Related Resources," has been removed from our publications collection this month. It was originally based on resources I used in my work as IAT librarian, but was badly in need of updating. I have created a new publication with a revised and expanded list of resources. I have titled the new publication "Online Resources for the Solo Librarian" because it contains links that I currently find useful in running a one-professional library. The new guide is available at <http://www.unc.edu/cit/guides/irg-44.html>.

Although most of the articles in Infobits are useful to all levels of education, over the years we have included many with a primarily K-12 focus. Over 50 of these articles, covering the years 1994 through 1996, have been compiled into an anthology arranged by title and subject. "Anthology of K-12 Articles from IAT Infobits: 1994-1996" is available at <http://www.unc.edu/cit/infobits/k12bits.html> (subject listing) and <http://www.unc.edu/cit/infobits/k12bits-t.html> (title listing).

URL: <http://www.unc.edu/cit/infobits/bitsep96.html>

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