



# MIT LIBRARIES' NEWS

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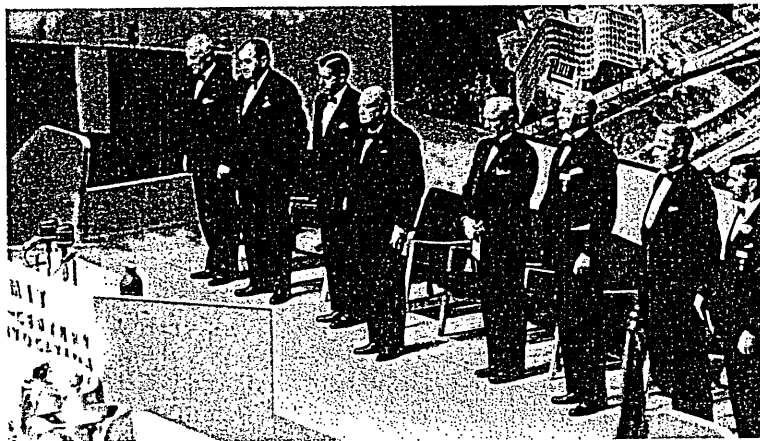
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From June 28 to August 20, 1999, the Institute Archives and the MIT Museum collaborated on a 50th-anniversary exhibition celebrating the Mid-Century Convocation at MIT in the Museum's Compton Gallery. The exhibit, "On the Edge of the Future: The Mid-Century Convocation at MIT," featured historic photographs and video including this one showing Karl Compton, James Killian, and other platform guests assembled in the Boston Garden to hear Winston Churchill's (center) keynote address the first night of the three-day Convocation, March 31, 1949. Photograph courtesy of the MIT Museum.

## Library Development Update

**E**stablishing an endowed collection fund is an important way many donors choose to support the MIT Libraries. These funds enhance the Libraries' ability to maintain and build excellent collections of books (still heavily used), electronic resources and other media and formats such as maps, images and sound recordings. In turn, the availability of comprehensive and up-to-date collections is crucial in supporting teaching and research at MIT.

The Libraries are creating a series of case statements for endowed funds. These case statements identify subject areas that are increasing in size and significance at MIT, as well as academic disciplines in which the cost of materials is growing faster than the growth rate of the collections budget. Over the years, endowed funds have strengthened the ability of the Libraries to keep up their purchasing power.

The following are examples of subject areas where endowed funds would make a difference:

**Aeronautics and Astronautics**, to support that department's emphasis on the engineering of complex high-performance systems;

**Atmospheric Sciences**, with important new information in climate change, a new MIT master's degree program in Geosystems, and data collections from satellites and airplane and ship instruments;

**Cognitive Science and Psychology**, collections which are used by everyone from first-year undergraduates to eminent scholars;

*Continued on page 3*

## From the Director

After looking under the hood of his brand new automobile, my neighbor was profoundly unsettled. "I've been fixing my own cars for 30 years, so I was reasonably sure I was looking at the engine," he said, "and I did find the oil dip stick. But that was all I recognized with any certainty!"

MIT faculty who use copyrighted material in their courses may be feeling equally unsettled of late. Not very long ago, when printed material dominated course support, copyright guidelines provided reasonable flexibility and certainty to faculty. It was not difficult to comply in good faith with federal copyright law.

In recent years, however, digital and multimedia materials have become much more readily available to faculty. Substantially different rules apply to these materials, and those rules were further complicated by new copyright legislation enacted in the spring of 1999. It may be helpful to understand how we arrived at the current situation.

U.S. copyright law is based on an assumption that it is important, in a democracy, to provide for a reasonable balance between the limited monopoly rights of owners of information and the legitimate interests of society in protecting the free flow of information. Congress was careful, in the familiar 1976 law, to outline certain "fair use" exemptions to balance the exclusive rights of copyright.

The emergence of digital formats in the early 1990's shattered publishers' confidence in copyright protection. Once a published work was in electronic form, physical constraints were lost. Where owners of copyright (i.e., publishers) were once willing to give faculty the benefit of the doubt in copyright compliance, there was now immense concern about the ease with which one small act of digital copying could result in large scale abuse of copyrighted material. Publishers responded to this perceived threat by changing their distribution models and by lobbying Congress for legislative protections.

Publishers began providing digital resources to libraries only under license agreements that would, and did, supersede copyright. Digital versions of journals, images, recordings, and databases are generally licensed, not purchased, which exempts them from the balance provided for with fair use. Very rarely can MIT "own" these electronic journals, and the terms and conditions under which they can be used by faculty and students are defined by contract, not copyright law (see the MIT Libraries' website for information on specific resources).

Publishers also invested in the development of technologies that will enable them to imbed such information as ownership, cost, and conditions of use in every digital work. When these technologies are



*Ann Wolpert, Director of Libraries. Photograph by Richard Howard.*

implemented, the movement of digital material of all kinds can thus be readily monitored across the network. Meanwhile, electronic commerce and the development of trusted systems improve the likelihood that digital works will be managed outside the balance provided for by fair use.

Last year, publishers looked to Congress for fundamental changes in national copyright law. In the waning days of the 105th Congress, both the Digital Millennium Copyright Act (DMCA) and the Copyright Term Extension Act were enacted. These statutes contain provisions of critical importance to educational and library communities in the digital environment; addressing issues such as fair use and anti-circumvention technology, distance education, maintenance of the public domain, preservation and archiving, and the liability of providing online service to an educational community.

As with any sweeping new legislation, the implications of these statutes are not yet fully known. The DMCA is particularly complex, and leaves many issues unresolved. Some provisions of the statute (such as liability of online service providers) went into effect immediately. Other aspects (such as distance education) await mandated studies. Still more legislation is pending in the 106th Congress, as publishers seek rights in data that were not achieved last year.

As we look under the hood of this evolving copyright environment, there is one certainty: that we will see additional legislative and regulatory activity in the months ahead. None of this is apt to make our lives easier. Meanwhile, faculty may want to read carefully the agreements they sign with their publishers.

*Ann Wolpert, Director, MIT Libraries  
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## Development Update (Cont.)

**Entrepreneurship**, to support academic programs as well as the Entrepreneurship Center, the \$50K Entrepreneurship Competition, the Enterprise Forum, and the Center for Innovation in Product Development;

**Environment**, a complex interdisciplinary field with an extensive publishing output;

**Film and Media Studies**, to support a growing program at MIT with some of the wide array of materials published in recent years;

**Foreign Language and Literature**, as MIT prepares its students for careers in the global work environment;

**Impact of Science and Technology on Society**, in which new topics constantly emerge;

**Mathematics**, used by a broad segment of the MIT community in many disciplines;

**Music**, for the work of the Music and Theater Arts Section, for newly developing areas such as world music, and to serve the interests of large numbers of faculty and students at the Institute;

**Neurosciences**, in which MIT is contributing leading-edge research in this Decade of the Brain;

**Physics**, to maintain and build the heavily-used reference collection and to provide complete sets of expensive conference proceedings and reference data sets;

**Undergraduate Collections**, to support an increas-

ingly diverse undergraduate body engaged in increasingly interdisciplinary education.

Named, endowed funds can be established beginning at \$10,000. These funds provide ongoing, annual support for the acquisition of library materials. When books are purchased, recognition is provided by fixing bookplates in the yearly purchases made possible by the fund. The Libraries recognize a gift of \$25,000 or more with a unique, specially designed bookplate.

Endowed funds provide a wonderful vehicle for friends and supporters of MIT to express thanks and to show support in a unique and lasting way. Donors have established these funds to pay tribute to a respected professor, to mark important awards and life passages, and to honor parents and other family members.

If you have comments on the topics we have chosen, ideas to contribute toward the case statements, or suggestions for other subject areas that you feel should be emphasized as the Libraries seek endowed collections funds, we would very much like to hear from you.

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## New Librarian Staff

Two new librarians have joined the Libraries' staff in the past few months. Heather Caldwell began her duties as Head, Preservation Services, in May. Ms. Caldwell brings a broad knowledge of preservation as well as strong skills in bookbinding and conservation. She comes to MIT from the Harvard University Libraries, where she was a Project Conservator in the preservation program.

Ms. Caldwell received a B.A. in English from Dartmouth College, and an M.L.I.S. with a Certificate of Advanced Study in Library and Archives Conservation from the University of Texas at Austin. She began binding books at W.W. Streeter Hand Bookbinding in Northampton, MA. Her other work experiences include development campaigns and event planning, and she served as a U.S. Peace Corps Intern in Thailand.

In July, Rebecca Lubas joined the Libraries' staff as Special Formats Cataloger. Formerly, she was Catalog Librarian for Serials and Documents at Ball State University's Bracken Library, where she was responsible for the electronic journal cataloging



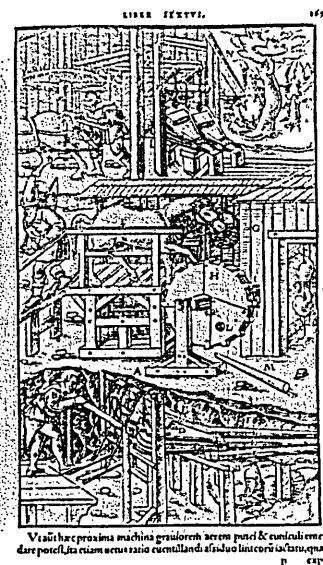
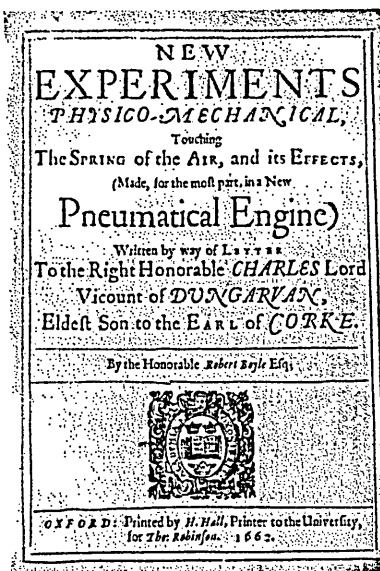
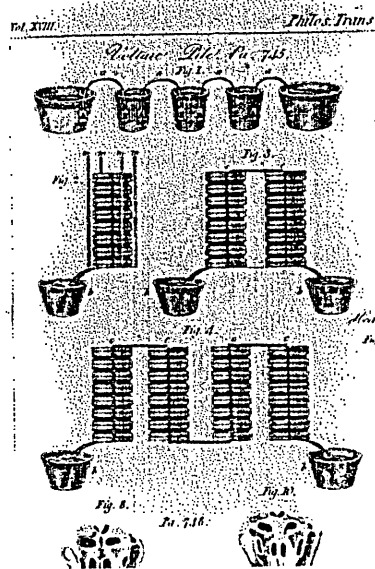
*Rebecca Lubas (left) and Heather Caldwell (right). Photograph by L. Barry Hetherington.*

project. Prior to that, she served as Catalog Librarian and was responsible for cataloging the full range of audiovisual resources from maps and videos to projected graphics and two-dimensional materials.

Ms. Lubas received a B.A. from the University of Notre Dame, an M.L.I.S. from Louisiana State University and has completed the coursework for an M.A. degree in English at Ball State University.

*Carol Zoppel, Editor*

## Special Collections Reflect MIT's Story



Images from the works of (from left to right) Volta, Boyle, and Agricola as mentioned below. Photographs by L. Barry Hetherington.

The history of MIT and the collections of the MIT Libraries are deeply intertwined. A look at the Libraries' special collections provides one route into MIT's story. William Barton Rogers, founder of MIT, developed a large collection, now owned by the Libraries, of books and personal papers through his own work as a geologist, and his contacts with leading scientists in the U.S. and abroad. In the words of former MIT President Julius Stratton, the William Barton Rogers Collection

*speaks to us most especially of a man with an understanding of what science and its practical applications might achieve and a vision of what MIT might one day become.*

By 1916, MIT's growth had brought about a move to the new campus in Cambridge. The design for the new buildings featured stonework carved with the names of people whose ideas forged the intellectual foundations of the Institute: Aristotle, Gutenberg, Newton, Pasteur, Darwin, etc. In all, 115 names appear on Buildings 1-4. In the Libraries, these intellectual foundations are reflected in books such as:

- Gutenberg: a leaf, printed ca. 1455, from the *Bible*;
- Agricola: *De Re Metallica*, 1556;
- Vitruvius: *Architectura*, 1649;
- Boyle: *New Experiments Physico-Mechanical...*, 1662;
- Newton: *Opticks*, 1704;
- Jenner: *Inquiry Into the Causes and Effects of the Variolae Vaccinae, a Disease...*, 1798;

- Volta: description of his battery or voltaic pile, in *Philosophical Transactions of the Royal Society...*, 1800.
- Ampere: *Theorie Des Phenomes Electro-Dynamiques...*, 1826;
- Darwin: *On The Origin of Species*, 1859.

In these and many other subjects, the Libraries have built a rich combination of archives, manuscript collections and rare book collections that represent MIT's evolution, and provide a context for education and research today.

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## New Head Librarians Appointed for Barker Engineering and Dewey Libraries

It is a great pleasure to announce the appointment of new Heads for two of the five divisional libraries at MIT. Catherine Friedman took over her duties as Head of the Dewey Library in July. Steve Gass began serving as Head of the Barker Engineering Library in September.

Catherine Friedman comes to MIT from San Diego State University where she was Head of the General Reference Division and Business Reference Librarian. Prior to her work at San Diego State, she was employed at Arizona State University, Heriot-Watt University in Scotland, and at the University of Illinois Urbana-Champaign.

Ms. Friedman is an experienced and knowledgeable librarian and manager who has a strong vision for the future of business and social science libraries. She is particularly interested in understanding the information needs of library users and has a strong track record of building and promoting effective library services.

Ms. Friedman brings a distinguished record of professional contribution; she has been the Chair of the Business Reference and Services Section of the Reference and User Services Division (RUSA) of the American Library Association, and she was recently elected Chair of RUSA. She is the author of *Commodity Prices: A Sourcebook and Index Providing References to Wholesale, Retail, and Other Quotations for More Than 10,000 Agricultural, Commercial, Industrial, and Consumer Products*, and she is working on another book on investment information to be published by Oryx Press. In addition to these books, she has published articles and has been a frequent



Steve Gass (left) and Catherine Friedman (right). Photograph by L. Barry Hetherington.

speaker at professional meetings. In 1995, under the auspices of the USIA, Ms. Friedman carried out an assessment of library resources and services for the Kazakhstan Institute of Management, Economics, and Strategic Research.

Ms. Friedman holds an M.S. in Library and Information Science and a B.A. in Political Science and Economics from the University of Illinois Urbana-Champaign.

Steve Gass returns to MIT after 12 years at Stanford University where he held a variety of positions. For the past two years, he was Head of the Science and Engineering Resource Group in the Stanford University Libraries and Academic Information Resources, as well as Head Librarian and Bibliographer of the Engineering Library. Prior to going to Stanford, Mr. Gass worked for the MIT Libraries in several positions including four years in the Barker Engineering Library as Assistant Librarian for Mechanical and Ocean Engineering.

In returning to MIT, Mr. Gass brings substantial knowledge, enthusiasm, and a clear conception of the future role of libraries in an academic community. He also

brings significant expertise in managing engineering and science library services and collections.

Mr. Gass has been an active participant in a number of professional associations. He has chaired the Engineering Libraries Division of the American Society for Engineering Education, and, in 1998, he received the ASEE/ELD Homer I. Bernhardt Distinguished Service Award. In addition, Mr. Gass has served on the Optical Society of America's Library Advisory Committee and has been an Adjunct Faculty member in the San Jose State University Division of Library and Information Science. His depth of experience and vision for the future of libraries have made Mr. Gass a sought-after speaker, and he has also authored a number of publications.

Mr. Gass holds an M.L.S. from Simmons College and a B.S. in political science from MIT.

I hope you will join me in welcoming these two exceptional librarians to MIT!

Virginia Steel, Associate Director for Public Services  
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## New Space, New Technology for Aero/Astro Library



The Aeronautics and Astronautics Library before the move. Photograph by L. Barry Hetherington.

The Aeronautics and Astronautics Library will move from its present site in 33-316 to a new location on the first floor of Building 33. The move is part of the Aeronautics and Astronautics Department's project to create a Complex Systems Development and Operations Laboratory by renovating the lower floors of the building. The new Library is scheduled to open in late January 2000. While the new space will be smaller, the use of new technologies will enable us to provide enhanced services to our users. The goals of the new Library are as follows:

- integrate the Library more fully into the educational, research and design programs of the Aero/Astro Department;
- create a 21st Century Library with increased access to electronic materials while maintaining our strong traditional collection;
- use the new Library as a laboratory for creative ideas in library planning and service.

The new Library will be situated in an area of laboratories used by the design classes in

Course 16 (Aeronautics and Astronautics). This location will make it easier for students to use the Library while they are working on their projects. The new space will offer an extensively wired work area with each study carrel connected to the Internet. Half of the seats will have terminals. The other half will offer network connections so that students can plug in their own laptops. In addition, plans for the collection include a large increase in materials made available electronically over the campus network. Some of the titles to be purchased include *Jane's All the World's Aircraft*, other *Jane's* publications, and journals in electronic form.

We are looking forward to entering our new quarters and the 21st Century in January 2000. Please come in to visit us in the new Library next year.

Eileen Dorschner, Aeronautics and Astronautics Librarian  
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## New Databases Available through the Libraries

The following electronic databases were recently added to our collections. They are available through the Libraries' Web site: <http://libraries.mit.edu/lists/db-web.html>. Many databases can now be accessed from off-campus by members of the MIT community. Please see <http://libraries.mit.edu/faq/remote.html> for details.

### NTIS

(U.S. Department of Commerce)  
The National Technical Information Service (NTIS) database is the major resource for locating U.S. Government-sponsored research reports and studies in the physical sciences, technology, engineering, biological sciences, medicine and health sciences, agriculture, and the social sciences. It also contains the results of government-sponsored research and development from countries outside the U.S. Coverage is 1970 to the present.

### Literature Online (LION) (Chadwyck-Healey)

A library of over 250,000 works of English and American literature which brings together several full-text literary databases into one searchable package.

### Periodical Contents Index (Chadwyck-Healey)

Index to the contents of thousands of periodicals in the humanities and social sciences, from their first issues to 1990/1991.

Continued on page 8.

## *Subject Specialists in the MIT Libraries*

SUBJECT	LIBRARIAN	PHONE	E-MAIL ADDRESS
Aeronautics & Astronautics	Eileen Dorschner	253-5666	edorsch@mit.edu
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Architecture & Planning in Islamic Culture	Omar Khalidi	258-5597	okhalidi@mit.edu
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Urban Planning	Margaret de Popolo	258-5594	depopolo@mit.edu
Women's & Men's Studies	Marlene Manoff	253-9354	mmanoff@mit.edu

## *New Databases Available through the Libraries (Cont.)*

### *Digital National Security Archive (Chadwyck-Healey)*

This is a comprehensive collection of primary documents central to U.S. foreign and military policy since 1945. More than 35,000 of the most important, declassified documents - many published now for the first time - have been gathered through extensive use of the U.S. Freedom of Information Act (FOIA).

### *Grove's Dictionary of Art Online (Grove's Dictionaries)*

Comprehensive online reference resource for all aspects of the visual arts worldwide from prehistory to the 1990's.

### *Hoover's Online (Hoover's Inc.)*

Covers in-depth information on nearly 14,000 companies, both private and public, and U.S. and non-U.S. Provides corporate strategy, history, competitors, financials, key executives, and industry trends.

### *PsychInfo (American Psychological Association)*

Provides bibliographic information in psychology and related disciplines from 1887 to the present.

For additional information or assistance in using these databases, please contact any reference librarian.

*Carol Zoppel, Editor*

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