

News from the
MIT Libraries

Massachusetts
Institute
of Technology

Fall 2019
Vol.32 / No.2

MIT
Libraries



Bibliotech

Contents

03
From the
Director

04
A New Vision
for Hayden

08
Open Access
Task Force
Releases
Final Report

10
The
Computational
Library

12
Distinctive
Collections
by the
Numbers

13
News from the
MIT Press

14
Staff News

16
What's New

18
Honor Roll

Bibliotech

News from the MIT Libraries, an official publication of the MIT Libraries, is published twice a year, in the fall and spring.

Editor

Brigham Fay
Director of
Communications
617.253.5686
brighamf@mit.edu

Design

Pentagram

From the Director

Here at MIT, we are always looking to the future, with an eye toward doing our part to build a better world. This issue of *Bibliotech* takes a look at some of the major initiatives driving the future of the Libraries:

- I'm excited to share with you the design for the Hayden Library renovation by Kennedy & Violich Architecture (p. 6), which preserves what is special about Hayden while responding to the evolving needs of our community and the way knowledge is created and consumed today.
- As computation reshapes the future of the Institute with the Schwarzman College of Computing launching this fall, it is also defining our work. Our own Heather Yager offers an inside look at how the College is identifying essential needs and the unique role the Libraries can play (p. 10).
- A future defined by AI—where the power of computing is brought to all fields of study at MIT—is one where the open sharing of knowledge is necessary for the kind of breakthroughs we envision. Over two years, the Ad Hoc Task Force on Open Access to MIT's Research has identified strategies to support and increase the open sharing of MIT publications, data, software, and educational materials. Our final recommendations were released to the community this fall (p. 8), and now the critical work of implementation begins.

None of this would be possible without the forward-thinking supporters (p. 18) who fuel our work all year long. Your generosity means so much to us, especially at this time of momentous change. Thank you for sharing our vision.

All my best,



Chris Bourg, PhD
Director of Libraries
617.253.5297
cbourg@mit.edu
@mchris4duke
chrisbourg.wordpress.com

Photo
Shawn Henry



A New Vision for Hayden

Libraries reveal designs for upcoming renovation

The Libraries have been developing designs for the upcoming Hayden Library renovation with Kennedy & Violich Architecture (KVA). The new design will support the ways that the MIT community uses library space today, adding program space and infrastructure upgrades while preserving and restoring Hayden's greatest architectural assets—its two-story volume with views to Lipschitz Courtyard and double-height windows overlooking the Charles River.

“Our goal was to create a library space that supports more research, more learning, more interaction, more community building, and better access to both print and digital collections,” says Director Chris Bourg. “KVA’s design, with its flexible, multi-purpose spaces, allows us to meet emerging needs while keeping much of what makes Hayden such a popular space on campus.”

The first floor has been designed as a dynamic and flexible community space for research and dialogue, where a new café, event space, and reservable study rooms will encourage impromptu gatherings, collaborative work, and community events. Adaptable furniture and mobile book shelving will allow users to “hack” spaces, customizing work spaces and conversation areas to their needs. The second floor will remain a quiet study space—an important need for MIT community members—suffused with natural light.

Design Highlights

- With views of the Charles River on the south side and Lipschitz Courtyard to the north, the spaces of the first floor will be opened to maximize the natural light afforded by Hayden’s double-height windows.
- A new café will offer coffee, drinks, and snacks.
- The entire first floor will be accessible 24/7 to anyone with an MIT ID; this represents a significant increase of 24/7-accessible space on campus.
- An expanded new elevator, public stair, and circulation pathway will allow easy access from one library level to another.

“KVA’s design allows us to meet emerging needs while keeping much of what makes Hayden such a popular space on campus.”
—Chris Bourg

- Ten reservable rooms are designed for collaborative research projects, group study, or as private space to practice a presentation or conduct an interview.
- A flexible event and teaching space can be configured in different ways to host events ranging from lectures to book signings to hackathons, as well as library workshops and MIT classes.
- Adjacent to the second floor Reading Room will be staff offices for subject librarians and experts in scholarly communications, with areas for consultations with MIT students, faculty, and researchers.
- Additional space on the east side of Building 14’s second floor will provide space for teaching and working with library collections; it can serve as additional open study space when not in use.

Access and sustainability have been priorities throughout the design process. A new elevator, the removal of non-accessible mezzanines, and the addition of new gender-inclusive restrooms and a lactation room will all contribute to a more inclusive and welcoming library space. In addition to aiming for LEED Gold certification, the Hayden renovation will also be piloting two new certifications for MIT: Fitwel, a building certification focused on positive impacts on occupant health and wellbeing, and an interior design strategy that uses environmentally responsible materials.

Thank You

The MIT Libraries is grateful to the following donors who have given generously to the Hayden Library renovation project. Their visionary support will provide MIT with a truly dynamic, inclusive, and comfortable space for research, learning, and community building.

David desJardins '83
Raymie Stata '90, SM '92, PhD '96
Ursula Burns
Sid Yip

For up-to-date information on the renovation’s progress, visit libraries.mit.edu/hayden-renovation.

Following pages:
A conceptual sketch for the first floor of the renovated Hayden Library shows a new stair that will connect to the second floor reading room, a café, self-service areas, study rooms, and flexible seating that will be available throughout the library



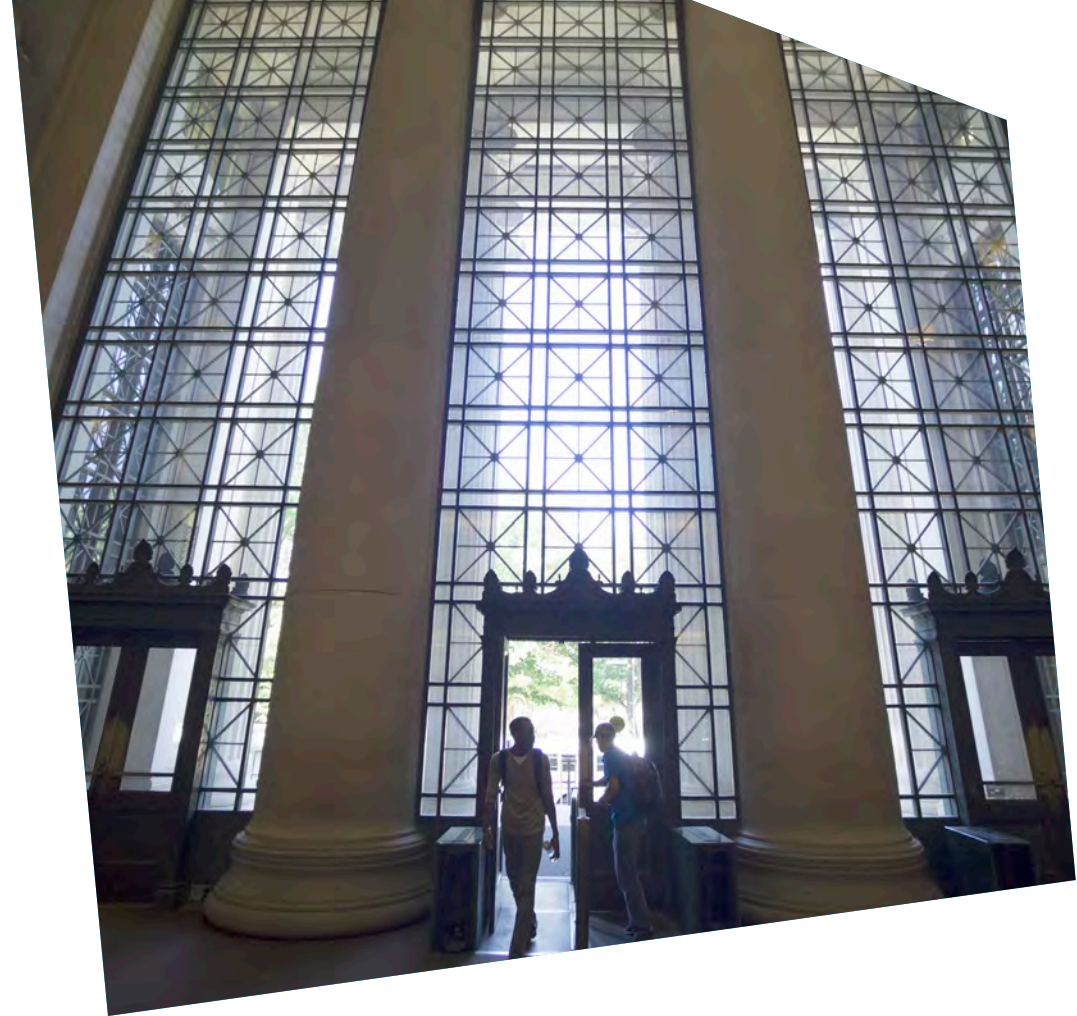
MIT
Libraries

Open Access Task Force Releases Final Report

Recommendations urge MIT to openly share the products of its teaching and research

This fall, the Ad Hoc Task Force on Open Access to MIT's Research released its final recommendations aimed at supporting and increasing the open sharing of MIT publications, data, software, and educational materials. The task force, convened by Provost Martin Schmidt in July 2017, was charged with exploring how MIT should update and revise its current open access policies to further the Institute's mission. Over more than two years, task force members gathered input from experts across campus and beyond to better understand local, national, and global practices and policies related to open access. A draft set of recommendations was released in March for public comment, and this input was incorporated into the final report.

"MIT has long been committed to sharing its research openly with the world, because it has understood that new discoveries occur most often when we build on prior knowledge and make new and creative connections between facts, data, knowledge, and insights," says Chris Bourg, co-chair of the OA task force along with Hal Abelson, Class of 1922 Professor in the Department of Electrical Engineering and Computer Science. "As MIT enters a new era shaped by computing, openness is more critical than ever. Computational access to open collections of knowledge means that discovery can happen at a speed and a scale that most of us have yet to imagine."



The final recommendations include ratifying an Institute-wide set of principles for open science and open scholarship.

"The MIT community will affirm our collective commitment to the overarching principle that control of scholarship and its dissemination should reside with scholars and their institutions," reads the report. If ratified, these principles would provide guidance for MIT departments, labs, and centers as well as individuals in making decisions about communicating and sharing their work and should provide the basis for Institute-wide negotiations with publishers.

Additional recommendations include broadening the MIT Faculty Open Access Policy to cover all MIT authors; asking departments, labs, and centers to develop discipline-specific plans to encourage and support open sharing from their faculty, students, and staff; and appointing an implementation team to prioritize, shepherd, and support the recommendations. Read the full set of recommendations at open-access.mit.edu.

Photo
Christopher Harting

The Computational Library

A Q&A with Heather Yager,
associate director for technology

Heather Yager leads Digital Library Services, which provides technology strategy and planning, software development, user engagement, and web services in support of the Libraries' mission. *Bibliotech* asked her to share her perspective on the role of libraries in enabling computational research.

What is a “computational” library?

It's all about taking what academic libraries do very well—curating and providing access to the information used during the course of research, and then stewarding and preserving the information generated by that research—and applying it to computational research. We're working to ensure that MIT's collections are accessible by machines, algorithms, applications, and people, and to support data-intensive research from start to finish, from data licensing and acquisition to data management to long-term data storage and access.

The MIT Libraries recently launched an API. Tell us about it.

Launched in March, our discovery index and public API (known as the TIMDEX, after MIT's mascot) is our first step towards enabling computational access to the full suite of information and data managed by the Libraries. Currently, the TIMDEX indexes online journal subscriptions, MIT theses, and our full catalog of print and electronic books. The application programming interface, or API, provides the building blocks for using that information externally, in a piece of software, or as raw data. It's our first experiment with building a library that functions as a programmable environment, where our user communities can design and code their own ways to access and analyze our collections, and the Libraries can join collaborative projects. See what the team is building at timdex.mit.edu.



Photo
Bryce Vickmark

Tell us about serving on the Working Group on College Infrastructure for the Schwarzman College of Computing. How do you see the Libraries playing a role?

Our working group was charged with examining how to ensure that departments have the information and resources they require to meet their computational needs, including methods of accessing and storing data. Our goal was to develop a common framework and language for thinking about computing across campus that ensures equitable access to resources and to build a common understanding of the needs associated with computational research. We spoke to each department, lab, and center across MIT to learn about their needs.

Overwhelmingly, their responses indicated the need for expert consultation on data management and a framework for bringing data to campus and managing it equitably, securely, and responsibly. As for our role, I think Chris Bourg said it best in a recent talk at the Consorcio Madroño: “Librarians know better than most people how information is collected, assembled, and organized, so we know where things can go wrong. [We] can help ensure scholars are aware of the shortcomings of the data they use, and can help mitigate those impacts.”

With a long history of providing information for use in research, managing it equitably, advocating for open scholarship, and taking the long view on durable information access, the Libraries are uniquely positioned to help build a computational research support model at scale at MIT.

Distinctive Collections by the Numbers

The Institute Archives and Special Collections was renamed in the spring to reflect the breadth and ambitions of the department. Here's a look at this core resource that inspires learning, research, and experimentation at MIT and beyond.

Data as of July 2019

27,252

Cubic feet of archival collections

56,019

Items in digital collections

1,190

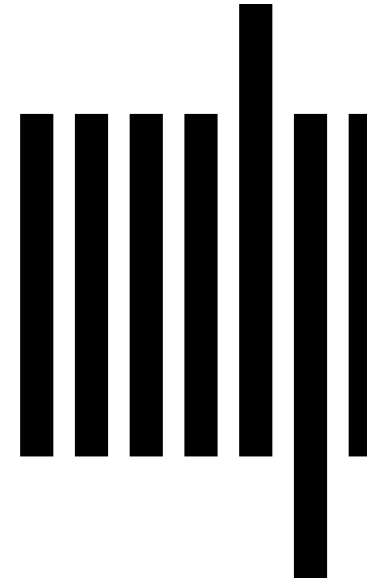
Finding aids newly available online

282,663

Archival items cataloged

News from the MIT Press

Bringing content to readers in new ways



It's an extraordinary time at the MIT Press with new projects aimed at pushing the boundaries of university-based publishing. This spring the Press launched two initiatives to bring content to readers in new ways.

The MIT Press Reader (thereader.mitpress.mit.edu) is a digital magazine that draws on the Press's rich archive and family of distinguished authors to provide thought-provoking excerpts, interviews, and other original works written for the general public but backed by academic rigor. Each week, the editors unearth gems from the catalog, call upon authors to cast their expertise on issues facing the world today, and dive into the stories that inspired the books.

The MIT Press Direct is a newly launched platform for libraries that facilitates discovery and access to MIT Press's distinguished collection of ebook content. Cost-effective and easy to use, Direct offers DRM-free access to more than 2,500 ebooks and is already available through NERL, California Digital Library, LYRASIS, and other platforms.

Staff News

Infinite Mile Awards

The Libraries honored the outstanding contributions of its employees on June 11, recognizing achievements in the following categories.

Innovation, Creativity, and Problem Solving

Discovery Index Team:
Ben Abrahamse
Cataloging Coordinator
Helen Bailey
Engagement and Data Engineer
Mike Graves
Senior Software Engineer
Rhonda Kauffman
Metadata Librarian
Jeremy Prevost
Senior Software Engineer

Collaboration and Inclusion

Staff Advisory Council Launch Team:
Shannon Hunt
Executive Assistant to the Director
Stephanie Kohler
Access Services Assistant
Sam Spencer
Administrative Assistant and Access Services Associate

Results, Outcome, and Productivity

NE36 Move Team:
Grace Mlady
Facilities Administrator

Beverly Turner
Program Head, Metadata and Digital Collections Services
Kelly Hopkins
Administrative Assistant

Bringing Out the Best

Cherry Ibrahim
Human Resources Generalist

Tough Questions/ Critical Thinker

Barbara Williams
Aeronautics/Astronautics and Physics Librarian

User Service and Support

Georgiana McReynolds
Reference Services and User Experience Librarian

Unsung Hero

Renee Hellenbrecht
Administrative Assistant

Christine Moulen “Good Citizen” Award

Jeremiah Graves
Access Services Manager, Barker and Rotch Libraries

New Appointments

Ana Rodriguez Balanta
Administrative Assistant, Collections

Beth Barnett
Marketing and Communications Assistant

Astride Chery
Annex Services and Scanning Assistant

Mattie Clear
Reference Associate

Retirements

Georgiana McReynolds
Reference Services and User Experience Librarian

Joanne Samuelson
Administrative Assistant

Grace Johnson-DeBaufre
Digitization Associate

Jessa Modell-Wasserman
Resource Sharing Assistant

Olaniyan Mustapha
Program Head for IT Service Management

Jonathan Paul
Access Services Assistant

From left: Cherry Ibrahim, Jeremiah Graves, Chris Bourg, Barbara Williams, Georgiana McReynolds

Photo
Jia Spiggle



What's New

Photo

Jay Forrester and Robert Everett watch as Stephen Dodd and Ramona D. Ferenz operate Whirlwind, MIT's first digital computer, 1950. Photo: MIT Museum

Students Create Archival History of Computing at MIT

Launched in June, a new website, Archival History of Computing at MIT, 1950-62, was created by a team of MIT undergraduate students in collaboration with the Programs in Digital Humanities and the MIT Libraries. Starting in November 2018, participants studied the MIT Computation Center archives from the Libraries' Distinctive Collections, digitized documents, created metadata, programmed the underlying code for the website, wrote stories about the archive, and conducted analyses in code and words. The site includes stories—ranging from the “Rise and Fall of Project Whirlwind,” about the first large-scale and high-speed computer, to uncovering the role of women—as well as simulations of performing basic programming operations on the IBM 704 computer and an interactive visualization showing the connections between the top 100 contributors in the Computation Center archives. Explore the archive at comphist.digitalhumanitiesmit.org.

Distinctive Collections Opens Web Archives to the Public

The department of Distinctive Collections (formerly Institute Archives and Special Collections) began collecting MIT-produced and affiliated webpages through the Archive-It tool in 2016.

These web archives, ensuring that valuable information about the Institute is accessible to researchers in the long term, were made available to the public this summer. Selected websites include those from MIT special projects, departments, student groups, alumni groups, and more, including recent developments such as the launch of the MIT Schwarzman College of Computing.

“By capturing websites of groups soon after their creation, a future researcher can see how these areas evolved from conception to an established group at the Institute,” says Joe Carrano, digital archivist.

See the archived webpages at archive-it.org/home/MIT.



Honor Roll

Thank you

We are grateful for the generosity of our library friends and supporters. Our donors enable the Libraries to support the MIT community and to advance the Institute's mission by producing, collecting, and sharing knowledge to solve the world's biggest problems. Thank you for your support.

\$250,000+

Raymie Stata

\$100,000-\$249,999

Alfred P. Sloan Foundation
Sidney Yip

\$50,000-\$99,999

David L. desJardins
Gareth R. and
Sandra S. Eaton
Paul G. Gregory III
Lionel L. Kinney
Thomas A. Stone and
Valerie M. Warrior

\$25,000-\$49,999

Barbara K. Ostrom

\$10,000-\$24,999

Richard A. Blanchard
Joanne Cheng
Peter J. Sherwood

\$5,000-\$9,999

Samuel Brooks
Darryl M. and
Leslye M. Fraser
Michael D. Good and
JoAnn P. Close
Dave and Dianna Magnoni
Bruce Rubinger
Shirley M. Sontheimer
Christopher and
Heather Stockard

\$2,500-\$4,999

Thomas P. Black
Donald B. Brown, Jr.
Richard T. Cockerill
Michael J. Hostetler and
Erica J. Pascal
Arnold S. Orange

\$1,000-\$2,499

Anthony L. Abner
Christopher Berman
Marjorie Brandriss
William H. Byrn and
Linda M. Chadwick
Mary Jean Crooks
Thomas G. Evans
John J. Frishkopf
The Grodzins Fund
David Hallenbeck
Ross N. Hoggman
Sharon A. Israel
Allen S. Lee
Jeffrey A. Morrow
Mary J. O'Hearn
Robert P. Popadic
Stuart J. Rubin
Phillip Hartley Smith
Jason Weller
Peter J. Wender

\$500-\$999

Alan J. Bilanin
Bertha P. Chang
Gerald L. Clarke
David Scott Cyphers
G. Doyle Daves, Jr.
Leonard Ehrman
Tracy A. Embree
John Gavenonis
Galo Guerra
Constance A. Herron
James A. Hollowell, Jr.
Prisadee Jindahra
Alan E. Kruse
Frederick J. Leonberger
Joseph J. Lutsky and
Jennifer A. Lloyd
R. Allen Miller
Ilse Nigro
Kenneth Olson
Amy Davidson Plummer

Brandon W. Porter
John I. Rho
Phillip and Aparna Rolfe
Paul F. Romanelli and
Deborah J. Waldman
Nicholas G. Ruggieri, Jr.
Ralph P. Santoro
Peter W. Staecker
Christina Stanley
Charles Steindel
Michael L. Taviss
William W. Toy
Evren R. Unver and
Rukiye Devres
Emily V. Wade
Charles Joseph Whelan, III
William M. York, Jr.

\$250-\$499

Rachele F. Adler
Steven and Joanne Berg
Larry E. Bergmnn
L. Stephen Brace
Margaret dePopolo
Shirley Dunbar
Irvin S. Englander
Mary C. Fuller
Nicholas T. Hamisevicz
Kenneth Hellyar
Gerald Z. Hertz
Charles D. Himmelblau
Henry and Lisa Houh
Mina K. Hsiang
Susan E. Jaster
Donald E. Knerr and
Susan C. Dunbar
Ken J. Lin
Edward N. Marcus
Victor and Ruth McElheny
William L. Menninger
Robert R. Mitchell
Jacek Mozdzanowski and
Krystyna Mozdzanowski
Chadwyck T. Musser
Karen L. Nelson
Kenneth Ogan
Rekha Packer
Paul C. Paternoster
Alice Pierce
Judith A. Quillard
Karl K. Richter and
Susan E. Rushing
Jeffrey B. Sakaguchi

Midori B. Sakai
Arnold M. Schwartz
Ryoichi R. Shiono
Todd Sjoblom
Gregory R. Steinbrecher
Bruce Sunstein
Joy Szekely
Mitchell Tasman
Barrie K. Trinkle
Stephanie Wingfield
David A. Woodruff

\$100-\$249

Adeyinka E. Adenekan
Gregory K. and
Karen W. Arenson
Saadia Husain Baloch
Phil Bangayan
Joseph Barco
Constantine S. Bardjis
Mark and Susan Barter
William H. Bean
Joanne Berg
Anita Bers
Michael H. Blechner
Kevin G. and Joleen M. Bonde
Lisa J. N. Bradley
William J. Butera
Pavel Bystricky
Geoffrey J. Bunza
Catherine C. Chen
Zinhui Chen and Shuying Xie
William and Meeho Chin
Clara Chow
Flora Chow
Raymond K. Clark
Kelly M. Clifford
Richard A. Cohen and
Mindy L. Garber
John W. Cook
Sandra J. Kassin Deardorff
Robert B. Dimmick
Neal Bernard Dowling, Jr.
Miting Du and Jinchuan Liu
Kevin E. Dutcher
Brian E. Eaton
William S. Ewing, III
Daniel Fairweather
August Ferretti
David V. Finch
Patricia Flanagan
Patrick and Tracy Gabridge
Nathan A. Gammon

Gregory J. Garvin
Steven Gass
Charles R. and
Wendy C. Gilman
Joseph R. Goldstone
O. Michael Gordon
Rochelle F. Grober
Robert Ross Gibson
David Gipstein and
Soni Gupta
Joseph A. Godrick
Rolf Goetze
Jeffrey M. Grandy
Robert T. Gudz
Amy Guen
Linda R. Guilette
Allegra D. Hakim
Anne W. Hayden
William J. Hecht
C. M. T. Hogan
Steven J. Hollowell
Charles J. Hrbek
Henry H. Hwu
Jen-King Jao
John L. W. Jayne
Meghan A. Jendrysik
Janet L. Jozwiak
Alaa Amin Karbouch
Bonny S. Kellermann
Caroline E. Kerrigan
Mohamed Mustapha Khemira
Mitsuo Kosaka
Jonathan S. Lane
Lance E. Laver
Stephen Levine and
Amanda Bosh
Yi Lin
Isabel J. Lloyd
Lawrence D. Loomis-Price
Bruce C. Lubow
Joyce Lund
Douglas S. Luther
Patricia A. Mabrouk
Betty R. MacCartney
Marilyn G. McSweeney

John W. Meriwether, Jr.
George M. Miller, Jr.
Katherine L. Mumane
Lester H. Nathan
Cynthia Hale Nicholson
John F. Olson
Daniel L. Orange
Oscar Orringer
Joseph C. Ottney
Martin L. Resnick
Susan M. Park
Alan W. Peevers
Emily R. Pollock
Patricia Rhoades
Steven J. Riskind
William M. Robertson
Charles C. Robinson
Rebecca Rogers
Catherine R. Romano
Warren W. Rouse
Eugene S. and
Arlene D. Rubin
J. Eric Schonblom
Ethan J. Schreier and
Janet M. Levine
Ruth K. Seidman
Carol Tucker Seward
Peter Shanahan
Edward Shoucair
Sarah Shreeves
John A. Shriver
M. Roe Smith
C. Robert Sprich
Edmund B. Staples, III
Nancy Stauffer
Stephen and Brigitte Steadman
Virginia Steel
Priscilla T. Stoyanof
Garrett J. Stuck
Victor T. Tom and Sze-Wen Kuo
Martin Tyson
Donald F. Vahrenkamp
Bonnie Van Der Pers
Preetinder S. Virk
Carmine Vona

Barbara Wang
Jacquelyn Ward
Jay P. Werb and Ellen J. Katz
Robert T. Willis, III
Stanley M. Wolf
Vicki S. Wollworth
John E. Woodward, Jr.
Man F. Yan
Chien-Ning Yu and Jocelyn Nee
Alton Zanders
Ming Zhang
Robert A. Zimmermann
Gerrit Zwart

Organization-Matching Funds
Adobe Systems Incorporated
Agilent Technologies Foundation
BAE Systems Inc.
Bristol-Myers Squibb Foundation
Charles Stark Draper
Laboratory, Inc.
Elsevier Foundation
FM Global Foundation
IBM
Intel Foundation
Microsoft Corporation
Netflix Inc.
Wells Fargo Foundation

In Honor Of
Roxana S. Azimi
Pamela Coravos
Charles Q. Du
Dean G. Duffy
Jamshied Sharifi

In Memory Of
Jonathan M. Cohen
John D. Corley
David J. Epstein
Edward J. Guen
Morris Halle
Thomas L. Hallenbeck
Hermann A. Haus
Kevin Lynch
Michael B. Packer
John N. Pierce
Herb Pomeroy
William T. Rhoades
Walter Rubin
Julian Szekely
John E. Ward
Ann J. Wolpert

This list acknowledges gifts to the MIT Libraries of \$100 or greater made during MIT's 2019 fiscal year (July 1, 2018, to June 30, 2019). We do our best to ensure the accuracy of this listing; however, if we have inadvertently excluded you or you prefer to be listed in a different way in the future, please accept our apologies and contact Kaija Langley at klangley@mit.edu or 617-452-2123 so we can update our records.





NON PROFIT ORG.
U.S. POSTAGE
PAID
Cambridge, MA
Permit No. 54016

Office of the Director
MIT Libraries
105 Broadway, Suite 6101
Cambridge, MA 02142

