THE KATHARINE DEXTER
Mc Cormick SOCIETY

News for Spring 2014
Features of the Electronic Edition include:

✓ Foremost access to McCormick Society news
✓ Embedded links to related content online
✓ Table of contents navigation (click to go)
✓ High-resolution color images

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Photography by: Dominick Reuter and MIT
Sometimes I think I am the luckiest person in the world to work at MIT, a vibrant place where members of the community are working to solve the world’s most pressing problems of health, sustainability, and educational opportunities. MIT faculty are frequently in the news for their astounding discoveries that run the full range from low-tech solutions to pressing problems in third world countries, to theories that shake conventional wisdom of how the universe was created. Recent MIT news stories include:

- Sangeeta Bhatia, SM ’93, PhD ’97, John and Dorothy Wilson Professor in the MIT Koch Institute for Integrative Cancer Research and the MIT Institute for Medical Engineering and Science, developed a simple, inexpensive, and accessible paper diagnostic that can detect cancer from a urine sample in minutes. This method is ideal for use in developing countries, where using expensive diagnostic instrumentation is not practical. For more information:
  
  web.mit.edu/newsoffice/2014/a-paper-diagnostic-for-cancer-0224.html

A Personal Message
From Bonny Kellermann ’72

Director
MIT Katharine Dexter McCormick Society (KDMS)

The Katharine Dexter McCormick (1904) Society (KDMS) was founded in 1994 to recognize those donors who provided for MIT’s future through legacy gifts—gifts through estates or life income funds, to be utilized after the donor’s lifetime. MIT is extraordinarily grateful to members of the McCormick Society for providing for MIT’s future excellence.
Alan Guth ’68, Victor F. Weisskopf Professor of Physics and MacVicar Faculty Fellow, first proposed the theory of cosmic inflation in 1980. Now, experimental data to support this theory have given rise to new understandings of the origins of the universe.

For more information:

newsoffice.mit.edu/3-q-alan-guth-on-new-insights-into-the-big-bang

These are just two examples of how MIT faculty are shaping our understanding of the world. The MIT community is blessed with faculty—and students and alumni—who are dedicated to making the world a better place. It is a privilege to be a part of this community.

The best school in the world

MIT continues to be ranked as the #1 school in the world by the Quacquarelli Symonds (QS) World University Rankings.

For more information:

topuniversities.com/university-rankings/world-university-rankings/2013#sorting=rank+region=+country=+faculty=+stars=false+search=

U.S. News and World Report continues (since 1990) to rank MIT’s School of Engineering as #1 in the country. Other MIT Schools are also highly ranked, and a number of graduate departments (aeronautical engineering, biology, chemical engineering, chemistry, computer science, computer engineering, earth sciences, electrical engineering, materials engineering, math, mechanical engineering, nuclear engineering physics, statistics) were ranked #1 (or tied for #1) this year.

For more information:

Changes in gift planning staff

We welcome new staff to MIT’s Office of Gift Planning: Lois Brooks, assistant director of gift planning, joins Andrew Coons, who has been in that role for just over a year. Amy Grinsfelder and Maria Kulianin have joined the staff in the new position of development associate. Patricia Foster continues to serve as senior gift planning coordinator. I’m sure that many of you will have the pleasure of interacting with these members of the Gift Planning staff, particularly if you consider an additional planned gift to MIT.

Judy Sager, who served as director of gift planning for almost fourteen years, has taken on a new role as associate dean for development and alumni relations at the NYU School of Engineering. We wish Judy well in her role, and extend a sincere thank you for her many years of service to MIT.

Stay informed about MIT

There are a variety of ways that you can receive information about what is new and interesting at MIT.

SPECTRVM

Do you know that the full text of the MIT SPECTRVM Newsletter—which highlights the game-changing work of MIT’s faculty, students, and alumni—is available online? Visit spectrum.mit.edu to read and comment on articles, and to download PDFs of entire issues, including the latest from Winter 2014: “The Future Is Cities.” And be sure to visit the Continuum blog (spectrum.mit.edu/continuum), curated by SPECTRVM, for recent news about the MIT community.
Faculty Newsletter

This newsletter keeps MIT faculty informed about campus news, programs, and discussions. Visit web.mit.edu/fnl/ for current and past issues. If you would like to be notified when a new issue is available, go to mailman.mit.edu/mailman/listinfo/fnl-announce.

MIT News

The MIT News Office is dedicated to communicating news and achievements of MIT students, faculty, staff, and the greater community to the media and the public. Visit web.mit.edu/newsoffice/ to view today’s top stories or search the archives for past stories. You can subscribe to receive a weekly digest of top stories via e-mail.

MIT Home Page

The Institute home page is a great starting point for navigating many sources of MIT information, including the MIT Directory where you can find contact information for MIT students, faculty, and staff.

To follow up with questions or requests for additional information, contact: Bonny Kellermann

P: 617-253-9722 | E-MAIL: BONNYK@MIT.EDU
Changes in administration

Martin A. Schmidt SM ’83, PhD ’88, professor of electrical engineering and computer science, has been named provost. He will serve as MIT’s senior academic and budget officer. Schmidt had been associate provost since 2008 and acting provost since last fall.

Cynthia Barnhart, SM ’86, PhD ’88, Ford Foundation Professor of Engineering, has been named as chancellor, succeeding W. Eric L. Grimson PhD ’80, who is now Chancellor for Academic Advancement. As chancellor, she has overarching responsibility for graduate and undergraduate education and student life.

The chancellor and provost are the Institute’s two most senior academic officers. Together they advise the President and participate in strategic planning, faculty appointments, resource development, and Institute resources and buildings. For more information:


Karen K. Gleason ’82, Alexander and I. Michael Kasser Professor of Chemical Engineering, has been appointed associate provost, with oversight of space planning, allocation, and renovations across the Institute. The Office of the Provost is focused on strengthening MIT’s
industrial engagements, and Gleason has significant experience working with industry. For more information:

newsoffice.mit.edu/2014/karen-gleason-named-associate-provost

Marc A. Kastner, Dean of the School of Science since 2007, has been nominated to head the US Department of Energy’s Office of Science, which manages much of the nation’s basic research on energy. Michael Sipser, Department of Mathematics head since 2004, was named interim dean. A faculty search committee is working to identify a permanent dean. For more information:

newsoffice.mit.edu/2013/marc-kastner-doe-office-of-science-1114
newsoffice.mit.edu/2013/michael-sipser-named-interim-dean-of-the-school-of-science-1206

Adèle N. Santos, Dean of the School of Architecture and Planning since 2004, announced that she will step down and return to the faculty at the end of this semester. For more information:

newsoffice.mit.edu/2014/santos-dean-of-sap-to-step-down-0128

In remembrance

Lobby 10 renamed Memorial Lobby

Lobby 10 was renamed Memorial Lobby during a formal dedication on November 18, 2013, to commemorate MIT alumni who gave their lives in military service. Their names are engraved on the walls of Memorial Lobby. These inscriptions have been restored and re-gilded, making them much easier to read. For more information:

newsoffice.mit.edu/2013/mit-memorial-lobby-1108
Officer Sean Collier remembered: Collier Medal awarded

In the spring of 2013, Boston was rocked by the Boston Marathon bombings and the tragic loss of MIT police officer Sean Collier. The outpouring of support in memory of Officer Collier has been remarkable. An award has been established in his name to honor those who exemplify his character: to go above and beyond the requirements of their jobs, providing exceptional service, help, and encouragement to their colleagues and community. This year, the first annual Collier Medal was awarded to 56 volunteer members of the student-led MIT Emergency Medical Services team. Many members of this group knew Collier well. In presenting the award, President L. Rafael Reif stated, “So that his spirit will live on at MIT, this is a fresh opportunity to express our gratitude that he lived and worked among us.” President Reif continued, “MIT EMS exemplifies a distinct MIT blend of leadership and problem-solving. The time, energy, and expertise they make available goes far beyond what is expected of a student group... They even designed a new ambulance, which is one of the safest in the country.”

For more information: newsoffice.mit.edu/2014/in-praise-of-the-institutes-unsung-heroes-0226

Officer Collier’s April 24, 2013, memorial service can be found at: newsoffice.mit.edu/2013/officer-sean-collier-memorial-0424
Campus renewal: MIT.nano

MIT is planning to construct an integrated nanoscience and nanotechnology facility at the heart of the campus on the current site of Building 12. The new facility will double campus capacity for nanoscale research and innovation. And, as a first-of-its-kind shared facility, it will make state-of-the-art tools for nanoscale observation, manipulation, and fabrication available to researchers from across MIT—estimated at as many as 2,000 researchers per year.

New ways to educate

Future of MIT Education

An Institute-wide Task Force on the Future of MIT Education has been formed with a charge to reinvent residential learning. The task force has been gathering information through an Idea Bank and from surveying faculty and students, along with face-to-face meetings. The Task Force’s three working groups are:

- Future Global Implications of edX and the Opportunities it Creates, chaired by Director of Digital Learning Sanjay Sarma
A New Financial Model for Education, chaired by Executive Vice President and Treasurer Israel Ruiz SM ’01

MIT Education and Facilities for the Future, chaired by Professor Karen Willcox

For more information: future.mit.edu and also at: newsoffice.mit.edu/2013/task-force-on-the-future-of-mit-education-1008

For the full Task Force report: web.mit.edu/future-report/

STE@M Gaining Steam at MIT

Sports Technology Education at MIT is the brainchild of Professor Anette (Peko) Hosoi in Mechanical Engineering. It’s an exciting new way for undergraduate and graduate students to work in partnership with sports product partners such as Nike or Patagonia to explore and develop new or improved products. Students benefit from the opportunity to work on real-life problems within the paradigms that companies use in their research and design. A basic outcome of this program will be students who are better prepared to step out of the classroom and into corporate engineering work without missing a beat.

Professor’s Hosoi’s “lab” is actually a variety of hands-on locations on campus, depending on the problem to be solved and the research to be undertaken. On April 25, MIT’s first ever STE@M Day found Hosoi and her colleagues welcoming a bevy of corporate partners to campus for tours of “maker spaces,” and then hosting a problem-solving round table at the Zesiger Sports and Fitness Center with students, professors, and corporate R&D managers, who discussed challenges and explored solutions in real time.

For more information: steam.mit.edu or contact Candace Royer at clroyer@mit.edu.
MIT faculty presentations

MIT Video

A number of faculty presentations are available online at: video.mit.edu/

Faculty Forum Online is a video archive of compelling interviews with faculty on timely and relevant topics: alum.mit.edu/learn/facultyforum/online?destination=node/19386

Recent additions to the Forum include:

- MIT Students at Work in the World: Public Service Center Director Sally Susnowitz and students (March 2014)
- Research in Women’s Health: Professor Linda Griffiths (March 2014)
- Exploring Exoplanets: Associate Professor Joshua Winn ’94 (February 2014)
- Privacy in the Digital Realm: Professor Hal Abelson PhD ’73 (November 2013)
- MIT At Work in the World: Chancellor W. Eric L. Grimson PhD ’80; Dean for Graduate Education Christine Ortiz; and Public Service Center Director Sally Susnowitz (October 2013)
- Big Data’s Brave New World: Professor Alex (Sandy) Pentland PhD ’82 (October 2013)
- Like Father Like Son: Kim Jong-un and the Danger of War on the Korean Peninsula: Research Associate Jim Walsh PhD ’00 (June 2013)
- New Research on the Brain: Associate Professor James DiCarlo (May 2013)

- Climate Change Policy that Makes Economic Sense: Professor Christopher Knittel (April 2013)

MIT Tech TV is another great resource for viewing presentations from MIT faculty and members of the community: [techtv.mit.edu](http://techtv.mit.edu). A particularly intriguing presentation was given by Bernard M. Gordon ’48, benefactor of the Gordon Engineering Leadership Program at MIT, who spoke on “Lessons I’ve Learned in My Life as an Engineering Leader.” Find it at: [techtv.mit.edu/videos/23669-bernard-gordon-lecture](http://techtv.mit.edu/videos/23669-bernard-gordon-lecture).

### 2014 Commencement Speaker: Ellen Kullman

[Ellen Kullman](http://mellin-kullman.com), CEO of DuPont, will be the 2014 Commencement speaker. “Ellen Kullman describes the work of DuPont as ‘using science to improve the world,’” President Reif said. “That mission resonates deeply with us at MIT, and this sense of kindred spirit has informed significant joint research with DuPont over the years. Through an aggressive focus on global trends in population, economics, and the environment, Ms. Kullman is leading DuPont in inspiring new directions, and we are delighted that she will share her perspective with us on Commencement Day.” Commencement will be held on the morning of June 6, 2014, and will be streamed live on the web.

More information at:
Student life

Class of 2018 Admissions

It’s beginning to seem like a broken record as each year we announce that admissions are more competitive than ever. Only 7.7 percent of the students who applied for the Class of 2018 were admitted. Stu Schmill, MIT’s dean of admissions, stated, “Those offered admission to the Class of 2018 exemplify all the qualities that distinguish an MIT student: enthusiasm for learning, strong match with MIT’s mission, and the ability to make an impact on others, in the community, and in the world. More than a third have won national or international academic distinctions. And in addition to being MIT-caliber scholars, many are athletes or artists or makers. All have exceptional character and motivation.”

Admitted students come from all 50 states and from diverse backgrounds. More than a quarter identify as members of underrepresented minority groups, and 17 percent will be the first generation in their family to attend college. This year, the Admissions Office introduced a new “maker portfolio” supplement as an optional part of the application process. Just like the optional music and art supplements, this new supplement allows applicants to submit hands-on projects, such as coding a new computer program, rebuilding a car, or designing a costume for a performance.

More information at:
http://newsoffice.mit.edu/2014/mit-gives-admissions-decisions-to-the-class-of-2018
MIT Varsity Sports Accolades

MIT students not only excel intellectually, but also in athletics. (Of course, their intelligence undoubtedly contributes in part to their success.) To date, MIT has had another very successful year in its varsity athletics programs. Last fall, both the men’s and women’s cross country teams won the NEWMAC Championships, the 16th straight for the men and the 7th straight for the women. Both the men’s and women’s soccer teams won the regular season NEWMAC crowns, and both earned at-large selections to the NCAA Tournament. Women’s tennis was undefeated in NEWMAC play and won its second straight conference title, qualifying for the NCAA Championships in May. Sailing had a strong fall season and saw Hanna Vincent ’14 qualify for the Women’s Singlehanded National Championships where she finished 10th.

In the winter season, the men’s and women’s swimming and diving teams both placed in the top-10 at the National Championships. Indoor track and field produced a national champion, with Cimran Virdi ’16 winning the women’s pole vault title and becoming MIT’s first women’s indoor national champion. Men’s basketball won the NEWMAC Championship and moved on to play in the NCAA Tournament for the sixth consecutive season. In fencing, Joey Rafidi ’14 finished in ninth place in epee at the NCAA National Championships and was the only qualifier from Division III. On the women’s side, Cordelia Avery ’17 qualified for nationals in saber and finished in 13th place.

Milestone anniversaries

Emma Rogers Society celebrates 25 years

In 1989, at the invitation of MIT, a dedicated committee of widows of alumni and faculty began exploring ways to form an outreach group for the bereaved, with the goal of helping everyone continue to feel welcome at the Institute. What is known today as the Emma Rogers Society...
Society (ERS) is the direct result of those discussions and was officially launched in 1990. Today, this program, which meets several times a year in the Boston area and publishes a newsletter in the spring and fall for more than 5,000 members worldwide, continues to evolve and thrive. A formal 25th anniversary celebration is being planned for 2015.

Aptly named for the wife of MIT’s founder, William Barton Rogers, who passed away while he was president of MIT, the Emma Rogers Society provides widows and widowers of alumni, faculty, and staff with a meaningful way to stay connected to the Institute.

For more information:


To follow up with questions or requests for additional information, contact: Nancye Mims

P: 617-253-8059 | E-MAIL: NMIMS@MIT.EDU

A century of innovation:

**MIT Sloan celebrates 100th anniversary of Course XV**

In 1914, MIT introduced Course XV, fulfilling founder William Barton Rogers’s vision of creating “a school of industrial science, and aiding generally, by suitable means, the advancement, development, and practical application of science in connection with arts, agriculture, manufactures, and commerce.”

Originally called Engineering Administration, this course formalized MIT’s commitment to management education and evolved over the next 100 years to become the MIT Sloan School of Management we know today.
Over the course of this academic year, MIT Sloan has celebrated this milestone by visiting 17 cities around the globe to honor the School’s history while looking ahead to the future. On April 9, the official anniversary day, MIT Sloan hosted a birthday celebration in Building E62, and worked with many domestic and international alumni clubs to host celebrations domestically and globally. Finally, on June 7, 2014, the School will welcome Course XV alumni back to campus for a Centennial Colloquium featuring a diverse group of faculty speaking about their research.

AeroAstro 100th anniversary

“President Maclaurin stated that he believes [MIT] should lead in the study of aerial navigation in the United States.”
— Technology Review, July 1909

With that statement, President Richard Maclaurin set in motion what, in 1914, would become the first aeronautical class at an American university. Since then, MIT has led the world in aeronautic and astronautic research, innovation, and education. Landmarks run the gamut from controlling the first inertially guided aircraft, to creating Apollo’s guidance and control systems, to designing commercial aircraft for the coming decades that offer 70 percent better fuel economy than current technology, to authoring an innovative engineering education framework that has been adopted by 97 universities around the world.

Throughout 2014, the Department of Aeronautics and Astronautics will be celebrating this 100th anniversary with seminars, symposia, and exhibits. More information at:

aeroastro.mit.edu/news-events/aeroastro-100
Upcoming events

Tech reunions

Coming to the MIT campus for Tech Reunions can be a wonderful experience even if you are not participating in a reunion. Many interesting programs are planned as part of Tech Reunions, and all KDMS members are invited to participate. You can find a complete listing of events planned for reunion weekend at:

alum.mit.edu/networks/Classes/TechReunions/Preliminary_Schedule?destination=node/17045

( Drill down for each day for a complete listing of programs planned for that day.)

Of particular note, below are some events you may wish to explore.

Cardinal and Gray Academy

Friday, June 6, 2014
8:30 am – 1:30 pm, Hyatt Regency Cambridge Hotel
Cost: $62 (includes breakfast and lunch)

MIT Professor Barry Posen keynotes this year’s program, speaking about US foreign policy. Other speakers include Seth Alexander, President of MIT Investment Management Company; Professor William Peters, Institute for Soldier Nanotechnology; Professors Alan Pradip Jasanoff and Ed Boyden, co-directors of the new Center for Neurobiological Engineering; and Institute Archivist Nora Murphy, who will give a program on Professor Norbert Wiener. Please pre-register by May 14, 2014, by clicking on REGISTER NOW! on the Cardinal and Gray Reunion web page:

alum.mit.edu/networks/classes/tech-reunions/cardinal-and-gray-society-reunion
Technology Day Program
Saturday, June 7, 2014
9 am – 12:45 pm

Top MIT faculty will discuss “The Future of Planet Earth”. Learn about the emergence of life, the Earth, its systems, and the stresses that are inherent as well as imposed by human activity. How does what we have learned about the past help us predict where we are going and lay the groundwork for a sustainable future?

Save the dates for fall events

Alumni Leadership Conference
Friday and Saturday, September 19 – 20, 2014

The Alumni Leadership Conference (ALC) to be held on Friday, September 19 and Saturday, September 20, 2014. There will be many sessions as part of ALC that you may find interesting. Even if you are not an alumni volunteer, you are welcome to participate. Contact Bonny Kellermann if you would like to receive information about this and are not currently an alumni volunteer.

Katharine Dexter McCormick Society Annual Appreciation Event
Sunday, September 21, 2014 at 10:30 am

The Katharine Dexter McCormick Society Annual Appreciation Event will be a brunch at MIT on Sunday, September 21, 2014. Please mark this date on your calendar. More information will be sent at a later time.
The MIT community gathered to honor and celebrate the life of Charles M. Vest, the Institute’s 15th president, on Thursday, March 6, 2014. Vest passed away last December at age 72. Common themes echoed as speakers paid their respects, recalling President Vest’s special leadership style, his humbleness and approachability, and his ability to help others accomplish so much. Vest was praised for his influential stances, including support for gender equity and establishing OpenCourseWare, and his tireless advocacy for science and technology in Washington, DC.

A reception following the service was held at the Ray and Maria Stata Center, where a portrait of Vest was unveiled to celebrate the newly renamed Charles M. Vest Student Street.

View the Memorial Service at: teachingexcellence.mit.edu/must-see/charles-m-vest-memorial