Yahoo Internet Life Calls MIT America's Most Wired College

By Jennifer Lane

All those hours spent by MIT students logging on finally paid off. Yahoo Internet Life magazine ranked MIT first among the nation's most wired colleges in its May issue. Northwestern University, Emerson College, Rensselaer Polytechnic Institute, and Dartmouth College rounded out the top five.

Harvard University finished 64th, the California Institute of Technology placed 25th, and Stanford University came in 84th.

"We are pleasantly surprised by the ranking," said Director of Academic Computing Vijay Kumar. "As a general statement, it can't be far from the truth." However, "we don't know about the accuracy of the data."

Displeased with their low ranking, computing officials at Harvard have also questioned the validity of the rankings.

MIT's Oldest and Largest Newspaper

Top Science Honor

By May K. Tao

Last week, several MIT faculty members were honored for their scientific contributions. On Wednesday, Professor of Biology Robert A. Weinberg '64 was named as one of nine recipients of the prestigious National Medal of Science.

In addition, three professors were elected to the National Academy of Science. Weinberg is the 19th National Medal of Science winner from MIT.

Robert J. Birgeneau, dean of the School of Science, said that the medal recognized people for long-term discovery, as opposed to the Nobel Prize, which recognizes only a specific contribution. "The National Medal of Science is for an interval over one's career rather than one contribution," he said.

Weinberg said that he was surprised to be named as a recipient of the medal. "I hadn't the vaguest idea that they were thinking of me in this context," Weinberg said. "I didn't conceive of it; it's just beyond my imagination."

Weinberg is a noted cancer researcher and has spent 15 years studying the origin of cancer. He also led the way toward the discovery of the retinoblastoma gene. "It's a rare tumor of the eye, but by studying it, one can learn about many different kinds of tumor," he said.

Weinberg is the 19th National Medal of Science winner from MIT.

By Dan McGuire

The Undergraduate Association is gearing up for the Logan Airport Shuttle at the end of the school year. This spring's shuttle, which will run from Wednesday, May 21 to Saturday, May 24, is intended to be a real test of the airport shuttle concept, said Dedric A. Carter '98, UA president.

In previous years, leadership figures were tainted by technical issues and publicity problems, making it difficult to figure out whether the airport shuttle, as a concept, was workable. "Last time, we did the Logan shuttle as kind of a last minute thing," he said. "We tried to publicize, and it didn't get out there."

Nevertheless, "I was really pleased.... We got a decent turnout." This year, however, little is being felt to change. "This spring, we decided to do it right," he said. "We're trying to get as many people to ride it as possible. At the end of the spring, we're going to take another look at it."

This year, the UA wants to get "hard and fast statistics" and bring them before the UA Council to debate the merits of the shuttle, he said.

More shuttle stops added

In order to get those statistics, the UA is working hard to promote the Logan Airport Shuttle and is changing it to make it more convenient. The shuttle will run every hour and a half between 6:30 a.m. and 4:30 p.m. from the Wednesday of finals week to the Saturday after finals. The shuttle has expanded the number of stops it will make. It will now stop at East Campus, McCormick Hall, and between Next House and New House. Last fall, the shuttle only stopped at McCormick.

A Boston stop was considered and then rejected, Carter said. "We were hoping to get a stop in Boston, but we couldn't come up with a stop that was fair, equitable, and legal as far as traffic was concerned."

Time also played a role in the decision not to stop in Boston, said Natalie Tal '99, Burton-Conner House's UA representative. "We wanted to have the shuttle run every shuttle, Page 15

MIT Computers Compete To Crack DES Encryption

By Frank Dabek

Students and faculty at MIT are becoming increasingly active in an Internet-wide effort to break the 56-bit Data Encryption Standard algorithm, an encryption method commonly used by the government and the private sector to protect sensitive information. RSA Laboratories is offering $10,000 to the first person who obtains the correct key.

MIT computers are working with computers from hundreds of other universities and businesses across the nation in several brute-force attempts to crack the encryption system, which was created by RSA. The networks of computers are trying each of the 72,259,548,230,0036 possible keys to find a match.

An informal rivalry has also developed, as different universities attempt to determine who can test the most keys each day.

As of Sunday, 226 machines in the mit.edu domain were contributing to one effort, organized by Rock Genes at http://www.frist.com/rcv/descoll.htm, to link machines over the Internet. Veres has agreed to share $4,000 of the $10,000 prize to the individual whose machine finds the actual key.

MIT machines tested over 6 mil-

lion million keys Sunday, putting it in fifth place behind the University

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- Gilbert... Page 8
**WEATHER**

**Same Old, Same Old**

By Gerard Roe  
STAFF WRITER

The rain provided some relief for the dry spell across the region. The New York Times reported that the city experienced its first significant rainfall in several weeks.

**TALKS BRIEFS**

Talks between North and South Korean Red Cross officials broke off Monday without agreement on the amount of food aid or conditions for delivery from the South to the hungry North. The two sides could meet again within 10 days, negotiators said.

**Rally in Stock Puts Pushes Dow, Other Indexes to Record Highs**

By Henry Weiswein  
LOS ANGELES TIMES

In a major victory for the tobacco industry, a jury in Jacksonville, Fla., on Monday found R.J. Reynolds Tobacco Co. not liable in a product liability suit. The jury heard testimony that cigarettes manufactured by RJR, abisco Holdings soared 3 1/8 to 72 1/4.

**STAFF METEOROLOGIST**

**Low around 45°F (7°C). High 57°F (14°C).**

**Tonight: Rain clearing from the west. Low 43°F (6°C).**

**Wednesday: A mix of sun and clouds with winds out of the north. High 60°F (16°C).**

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Zairian Rebel Leader Predicts Victory over Mobutu Imminent

By Stephen Buckley

KINSHASA, Zaire

Zairian rebel leader Laurent Kabila said Monday that his forces could be in this capital city in the next two or three days and were already within 35 miles of Kinshasa's airport.

Kabila, whose rebel alliance controls about three-fourths of this vast central African country, said that if President Mobutu Sese Seko agreed to step down before the rebels reach Kinshasa, he would guarantee the president's safety, along with that of his family, news services reported from the southeast Zairian city of Lubumbashi.

But if Mobutu, whose 31-year rule has been marked by corruption and repression, does not resign, "we will have to chase him away in humiliation," he said. "I once again appeal to Mobutu to hand over power peacefully to us," Kabila added. "But if he does not, our forces are ready to enter Kinshasha in the next two or three days."

The U.S. ambassador to the United Nations, Bill Richardson, met Monday with Kabila in Lubumbashi to try to ensure he called "a soft landing" as the rebel entrance into the city appears imminent.

Here in the capital, a source familiar with negotiations between Kabila and the president said Mobutu is expected to leave office within a week and allow Kabila to enter Kinshasa to form a transitional government.

"Mobutu is probably in the single digits in terms of the number of days he'll remain in power," the source said. "There will be a transitional government, and it's going to be led by Kabila."

Budget Plan Sounds Impressive, Lacks Specifics on Many Issues

By Judith Havemann

WASHINGTON

The fiscal plan laid out by Congress and the president to balance the nation's books may sound impressive. But now comes the hard part of figuring out precisely how to achieve the savings that negotiators are looking for ways to carry out.

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The fiscal plan laid out by Congress and the president to balance the nation's books may sound impressive. But now comes the hard part of figuring out how to achieve the savings that negotiators are looking for ways to carry out.

John Rother, chief lobbyist for the American Association of Retired Persons, "They have not agreed to some of the underlying policies, which will have just as much impact on consumers as the numbers."

Although the negotiators agreed to require Medicare recipients to pay higher premiums -- $4.50 more each month than they otherwise would have faced by the year 2002 -- that is only a small fraction of the changes proposed to the program.

Most of the savings aimed at the federal health care program for the elderly will come from cutting payments to providers, mainly hospitals and health care plans.

But which types of hospitals will be cut and by how much is still up in the air. The problem is that if the savings are too deep, for example, to what degree will "teaching hospitals" be cut. Yet because these research institutions are typically located in urban areas and treat large numbers of uninsured, analysts say how much they get squeezed could ultimately affect the patients they serve.

Budget negotiators also agreed to extend Medicaid eligibility to about 5 million poor children, at a cost of about $17 billion over five years. What they left unclear was how the program would be administered and who would qualify.

If the program is set up as an "entitlement," basic federal benefits would be guaranteed and Washington would outline eligibility standards. If lawmakers decide to give money to the states to devise their own plans, it would be up to each state capital to decide what services are covered and for whom.

Oakland Schools Report Drops Reference to 'Ebonics'

By Michael Barone

WASHINGTON

In making its astonishing, 2,400-mile seasonal trek across North America, the monarch butterfly apparently practices a skill that many weekend hikers and pilots only wish they had: the ability to use the sun as a compass.

Scientists demonstrated the insect's special talent in a study reported in the May 1 issue of the journal Nature. But to navigate properly, the researchers say, the butterfly's own internal clock also must be on the correct setting.

University of Arizona biologist Sandra Perez and two colleagues kept butterflies in darkness for six hours to disorient them. Then the scientists released the monarchs to see if the conflict between the sun's position and their biological clocks would cause confusion.

It did. The butterflies - their internal timing off by six hours - aligned their bodies with the afternoon sun and flew west-northwest, instead of west-southwest, the direction they would have taken had the sun been their compass.

The monarch butterfly thus joins the small group of species for which a sun compass orientation mechanism has been demonstrated experimentally," Perez said. Researchers still don't know exactly how the butterflies do this.

Even more impressive is the insect's ability to stay on course during overcast days, Perez said.

Applications for graduate representatives to Institute Committees are now being accepted.

- Assessment of Biohazards • Athletic Board
- Commencement • Community Service Fund Board
- Copyrights and Patents • Corporation Joint Committee•
- Discipline • Faculty Policy Committee
- Family and Work • Foreign Scholarships
- Graduate School Policy • IAP Policy • Library System
- Martin Luther King Jr. Memorial Planning
- Medical Consumers' Advisory • Privacy
- Radiation Protection • Safety
- Shareholder Responsibility • Student Affairs
- Task Force on Student Life and Learning
- Undergraduate Admissions and Financial Aid
- Use of Humans as Experimental Subjects
- Women's Advisory Board

More information can be obtained at our web site, www.mit.edu/activities/gsc
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Editorsials, printed in a distinctive format, are the opinions of the signed members of the editorial board chosen to publish their disagreement with the editorial.

Dissenting views, due by 4:30 p.m. two days before the date of publication. Letters to the editor are welcome. Electronic submissions are to reach us at letters@the-tech.mit.edu.

Letters must be typed, double-spaced, and addressed to the Tech. The Tech reserves the right to edit or condense letters. More than 50 words will not be accepted. No letters will be return.

Letters and cartoons must bear the authors' signatures, addresses, and phone numbers. Unsigned letters will not be accepted. No letter or cartoon will be printed anonymously without the express prior approval of the Tech. The Tech reserves the right to edit or condense letters. More than 50 words will not be accepted. No letters will be return.

End to Dining Monopoly Is Welcome

Last week, the food service working group announced its preliminary recommendations for change in the dining facilities at MIT. The group proposed breaking up the dining monopoly currently held by Aramark. The tentative plan would allow every dining hall on campus — including several long-domestic dormitory dining halls — to be reopened under the control of a separate contractor. In addition to the halls, other facilities, ranging from LaVerde’s Market to the food trucks to Au Bon Pain in Kendall Square, may become eligible to accept the MIT Card. This proposal translates into a more welcome change, and they open up the way to a far better dining system. Despite repeated arguments that only a monopoly can take advantage of economies of scale, the new competitive system, six years with Aramark shows that a dining monopoly cannot effectively serve the students. The new competitive system will allow multiple companies to contract with the current contractor to attract customers. The result will be a nimble and aggressive contractors who can adapt rapidly to students’ needs. The expansion of choice and the potential of the local idea can benefit both MIT students and those businesses.

Reopening closed domestic dining halls is a trickier proposition, and one which should be carefully considered by the Institute before opening the halls to outside bidders. Residents of McCormick Hall, Burton-Conner House, and MacGregor House have justifiably been skeptical when their dining halls were closed several years ago. But while the convenience of domestic dining for residents is indisputable, reopening domestic dining halls for businesses cannot be economically feasible. The central issue is what matters more to MIT students and the administration — community or cost. It is well known that reopening the domestic dining halls will require that some group invest significant capital in the day-to-day operations of the dining halls.

MIT or outside vendors will have to re-equipping and refurbishing kitchens and dining rooms that have lain fallow for years. In all likelihood, it will take a while for the dining halls to be ready to start turning a profit and if Baker House’s student-run dining hall is any predictor, the dining halls may never be open again. Aramark’s difficulty in making Baker Dining self-sufficient will prove a warning flag to prospective bidders. It is quite possible that no large company will bid to take over domestic dining halls, maybe forcing MIT to pay a well-known contractor to oversee the dormitories — maybe Aramark. MIT might also end up offering prospective bidders first dibs on more profitable areas, like Londel Food Court, to sweeten the pot — a situation that could lead back to a virtual monopoly.

There are also dormitory-specific questions. For example, many MacGregor residents have grown accustomed to MacGregor Convenience, one of the few popular Aramark enterprises. Because of space constraints, MacGregor’s dining hall might force the convenience store to close. If most MacGregor residents would rather have the convenience store stay open, a choice has to be made, the convenience store should stay. All of these issues will require some hard choices about whether the convenience and community spirit fostered by dormitory dining is worth the economic burden. The tentative plan does not consider these fiscal matters, which they could open the door for substantial changes to the plans MIT has already drawn up.

The dining group’s report laudably reflects a long process of working with students and listening to their ideas. However, the report has the worrying tendency of being all things to all people. While that may not be bad for a first draft, some things will probably have to be cut. Dissenting the monopoly has been a long process, and such a move will serve students well.

Dormitory dining, however, deserves further scrutiny.

Outside Donations Should Not Become Internal Scholarships

Early this February, I received a letter from the Student Financial Aid Office congratulating me as a recipient of a Haebler Scholarship. I was honored by the award and excited about receiving the scholarship. However, the scholarship was used to reduce my MIT grant. The so-called scholarship reduced neither my current contribution to tuition payments nor my rapidly accumulating loans.

To add insult to injury, the office requested that I send one note to the donors, but I had almost forgotten about the donation intended for the community. By essentially scattering the generosity of those who make donations.

Donations are unquestionably essential to the survival of the Tech, and I thank the many donors for their contributions to our school. I certainly am pleased with the quality of my education here, and I realize that it would not be possible without alumni contributions. Currently, over 60 percent of MIT undergraduates require some sort of financial aid, and MIT’s need-blind admissions policy reliefs on the generosity of those who make donations. A scholarship, on the other hand, is a specific type of donation that is meant to award individual students. Should not the advice from the Office of Communications and Donation Relations denote my acceptance the award?

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We regret we cannot publish all of the letters we receive.

To Reach Us

The Tech telephone number is (617) 253-1541. Email is the easiest way to reach any member of our staff. Mail to specific addresses of the following addresses: ads@the-tech.mit.edu, news@the-tech.mit.edu, sports@the-tech.mit.edu, production@the-tech.mit.edu, advertisements@the-tech.mit.edu, circulation@the-tech.mit.edu. For other matters, send mail to general@the-tech.mit.edu, and it will be directed to the appropriate person. The Tech can be found on the World Wide Web at http://the-tech.mit.edu.
MIT Should Overhaul Its Badly Broken Tenure Process

Column by Anders Hove

Of all the factors affecting what education people receive when they go to college, the tenure system ranks among the most secretive and insidious. The tenure process, hidden though it may be, plays the central role in determining the character of MIT’s faculty and, by extension, the nature of the educational and research product students receive here. In spite of its critical importance, this practice of tenure is neither well known nor widely untiessed before critical discussion either in the public or within the institution.

The tenure system is badly broken. It is broken in that it no longer accurately indicates the quality of the faculty. It is broken in that it no longer rewards the very best. It is broken in that it no longer helps to ensure the teaching and research excellence that defines MIT. It is broken in that it no longer helps to encourage them to explore the frontiers of knowledge.

It is clear that this situation needs to be changed. The task of bringing about this change will be hard, and it will take time. But the time is now, and the change must be made. It is time to overhaul the tenure process at MIT.

The job talk is central to what behavior will lead to promotion. One measure of quality, of faculty must administer and conduct their research and write it up for publication.

While some teaching experience is consid- ered mandatory, the quality of the candidate’s teaching plays a peripheral role in his or her consider- ation. While the importance of teaching varies by department, it is often the case that teaching can play only a secondary role in a candidate’s selection. In other words, good teaching can lead to advancement, but the difference between average and exceptional teaching may pass entirely unnoticed.

Given this process, it is not surprising that teaching and community involvement usually fall by the wayside. MIT’s Lewis Committee recognized this in 1949 when it wrote: "Institute standards of professional competence are so high that the ordinary faculty mem- bers who are sought for faculty posts must work exceedingly hard to maintain and enhance their standing among their professional colleagues in the highly professional world of academic work. They therefore have little time for other interests. In many situations these are the root of the problem of general education at the Institute."

The Lewis Committee was optimistic that top-notch researchers could be found who would also be good mentors, teachers, and community leaders. And MIT does have such people, just as we did 50 years ago. That we do not seems to me by fortunate coincidence than by intent. In spite of the Lewis report’s recommendation, nothing has been done to recruit a “super-faculty” of people who “find time for the nonprofessional civic and cultural activities that characterize the ideal teacher.”

Why haven’t things changed? By per- haps the most critical reason, the tenure system is still run by MIT’s schools and departments. Departments themselves face the overwhelming constraint of supporting themselves financially. The fundamental question for a department is whether a candidate can contribute to the department’s research output, not its educационal output. Where education and quality of the educational product are so critical, but so often good teachers and community leaders are passed over for those who, in the end, will contribute more to the research output of the department. Shouldn’t the way MIT rewards people be somewhat more financially relevant?

The problems with tenure are so systemic and pervasive than nothing short of a com- plete overhaul will cure them. The stakes may be high, but the potential gains to the quality of an MIT education may be immense.

MIT/Sciences/Engineering/Expo Proves a Tremendous Success

Column by Abigail Miao Vargas

On Wednesday, April 30, MIT’s Public Service Center sponsored the MIT/Sciences/Engineering/Expo. The Expo was a science fair for the seventh and eighth graders of 12 local schools. The kids get to display their experi- ments for MIT volunteers to see and find ways to improve.

The Expo was attended by MIT student volunteers who had been trained and characterized by the Public Service Center. The volunteers were the center, tying together all of their programs.

I went to the meeting and what I am about to tell you. While I think that many MIT students who volunteer their afternoon, there are many students who do not. This year was the sixth annual Expo and the biggest one yet. There were more than 100 Cambridge students, last year was the 200. There were so many MIT volun- teers that the students were always busy.

The event was labeled a "gateway" by the student volunteers and helped the students to feel more comfortable in their environment. The problem with tenure are so systemic that they need of their department. The same is true for the nonpro- fessional civic and cultural activities that char- acterize the ideal teacher.

Physical Plant Should Repair Unattractively Dripping Arch

Column by Erik S. Bailey

Ah, the signs of spring. The chirping birds, blooming trees, and the sound of Physical Plant working busily to try to hide the fact our campus is made up of over 25 percent impervious material. So as prepare- tions for Commencement continue, I hope that the arch on campus, the Northeast campus, will continue to attract wide attention. The physical problem — the leaking arch by the Media Laboratory.

I know what’s going on. As you walk, from the Medical Center toward the main campus, you can hear the sound of rain water dripping. I would much rather show them one of the building, the arch spills out water all day.

To my understanding, when that part of east Cambridge was built in the 1960s, it was the result of a planning process that tried to improve the experience of campus as you move from the Kendall Square Station. The arch is a gateway to a really exciting place.

I worked this past summer helped write a piece of this — the Northeast campus master plan.

The arch is something called a gateway amenity. The theory seems something like this: — you see the arch, you walk through the arch, you’ve entered MIT. The problem is that the beginning has not been much helped. According to the Lewis report’s one thing that is supposed to say welcome to campus is dripping upon passers-by. Welcome to the Institute.

MIT, unlike many other campuses, is open, meaning that we do not have fences surrounding our academic buildings. For schools with these gates, they indicate arrival points. The arch serves a similar amenity. The dripping is akin to any other institutional gate raised shut. It just looks bad.

There are two reasons I’m somewhat dis- gusting about the arch. One, it’s dripping for a long time. Every now and then, some blocks have it come back down? It sounds of Physical Plant working busily to help correct a pretty visible problem. Erik is a graduate student in the Department of Urban Studies and Planning. If you had time to read this column, you’ve got to write a chapter of his thesis. Erik is a graduate student in the Department of Urban Studies and Planning.
The following incidents were reported to the Campus Police between April 24 and 30:

April 24: Bldg. 11, wallet stolen, $10; Johnson Athletics Center, truck window maliciously damaged.

April 25: Student Center, leather jacket and watch stolen, $310; Bldg. 10, suspicious activity.

April 27: Main St., Glenwood Swan, of 5 Columbia Terrace, arrested for attempted larceny of a bicycle; Theta Delta Chi, James Johnson, of 5 Goldfarb Place, Somerville, Allen Heward, of 50 Coronet Park, Cambridge, and one male who refused to identify himself, arrested for trespassing and other related charges; Student Center, Jason Bazzell, of an unknown address, arrested for trespassing; Ashdown House, Lee Maxwell, of 56 Hallsworth St., Maptatt, arrested for trespassing and other related charges.

April 28: Bldg. 6, dark stolen, $100; Bldg. 10, attempted telephone fraud; Bldg. E19, cash stolen, $60.

April 29: Bldg. E31, laptop and wallet stolen, $1320; 2) T-shirts stolen, $150; Bldg. B20, annoying e-mail.

April 30: Random Hall, suspicious activity; Bldg. 11, attempted larceny of mail; Bldg. E23, language translator stolen, $140.

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POLICE LOG

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AND YOU WILL HAVE AN UNFORGETTABLE SUMMER

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Kve, Volunteer Coordinator 437-1990, ext. 100

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But hell's bells, it surely does get a might lonesome around here sometimes. Shoot, I'd give my best heifer for some company.

Well... I reckon I can always go pick some more methamphetamine out'a the chicken feed, so's them crazy voices'll start talkin'.

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A BRIEF INTRODUCTION TO BUSINESS
FOR GRADUATE STUDENTS AND POSTDOCS
Open to all who are interested. All talks held in 4-163 at 4 P.M. No pre-registration required.

* * *

Mon., April 28: Presenting Your Work (and Yourself) to a Business Audience, by Johnn Yates, Assoc. Prof. of Management Communication, Sloan School

Mon., May 5: An Overview of American Patent Law, by Jeffrey Meidman, Sr. Lecturer & Dir. of Undergraduate Programs, Sloan School


Mon., May 19: Case Study: The Economics of Standards and the Competitive Effects of Uncertainty, by Scott Stern, Asst. Prof. of Management, Sloan School

Sponsor: Office of Career Services and Professional Advising
Questions? Contact khэмd@mit.edu.
Noun Poetry by Katy-Cat

large wooden stick
red construction brick
cappuccino

Off Course by Hugo

COOL SHADES, WHERE DID YOU GET THEM?
I BOUGHT THEM FROM A GUY AT THE STUDENT CENTER. THEY ARE DESIGNER FRAMES AND LENSES
HE WAS PRACTICALLY GIVING THEM AWAY
OH... I DOUBT THAT
IT LOOKS LIKE YOU'RE THE PROUD OWNER OF A PAIR OF "RAE-VANS!"

RHINO MAN

The name's Cupid. I'm what you might call a big-game hunter for hire.

by Zachary Emug

And you're my latest contract.

To be continued...
It takes only 25 minutes to print The Tech.

But don’t let that fool you. It takes all kinds of people to put together MIT’s Oldest and Largest Newspaper. Whether you’re interested in doing layout on state-of-the-art equipment, reviewing the latest movies and CDs, selling ads to national companies, or anything in between, we welcome you to join The Tech.

No experience necessary!
A crane lifts carefully packaged crab apple tree out of its long-time home outside of Building 53 for a short trip to its new place in Killian Court. The tree's roots were pruned and wrapped in burlap in preparation for the move.

The trip to Killian Court met unexpected problems as the crab apple trees became caught in trees along Memorial Drive. A worker tries to free the crab apple tree. A crane eventually came, and the trees spent the rest of the trip horizontal.

The trees make their triumphant entry into Killian Court. The crane rights the trees and places them in their new homes outside of Building 10. There they will grace the sides of the stage during Commencement in June.

### PUT YOUR VALUABLES IN A SAFE PLACE.

Helmets make riding more comfortable and fun. Not to mention safer. In a crash without one, you are five times as likely to suffer a serious head injury than a helmeted rider. No matter how short your ride, wear a helmet. It's the best protection for your most valuable asset. **MOTORCYCLE SAFETY FOUNDATION**

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### 1997 SCIENCE EXPO

The MIT Public Service Center extends its sincerest gratitude to all the MIT groups and individuals who helped out at the fifth annual MIT/Cambridge Science Expo, a celebration of science for 7th and 8th graders, on April 30.

With 180+ volunteers and ~180 Cambridge students, the Expo was a huge success!

#### MIT Student Volunteers:

- Science Advisors - Volunteer Coordinators: Jasmine Chowdhury and David Yang
- Contributing Advisors: Serena Agarwal, Matt Alward, Jenny Anderer, Prater Benerji, Glenn Barry, Daniel Berger, Eric Byran, Mike Bradley, Chris Brunett, Jamie Buller, Matthew Burnard, Angela Cano, Nancy Chua, Wendy Chue, Mike Chin, Kumar Jay Das, David Day, Abe Delio, Laura Depolli, Rob and Brandyt, Iac Dugcan, Melody Dunlevy, Euan Duthie, Louis Filo, Chris Gelder, Ian Louis Gallant, Dave Geiger, Victoria Geng, Matthew Gray, Ann Getha, Charles Hamilton, Deng Hui, Batang, Carrie Hittman, Ben Holsberg, John Hollywood, Christine Rui, Mike Hure, Sanaka Ignal, Justin Kent, Ben Knowles, Sam Kevitz, Dave Koehler, Paulina Lee, Nina Kutsuzawa, Janessa, John Kynstren, Emily Lee, Andy Lee, John Lee, Leo Ludwik, Jeremy Luxembourg, Manu Mahajan, Craig Malt, Gina Mancini, Shastri Mehta, Mark Meier, Juliet Meldr, Robert Mitchell, Ann McMeen, Stanislav Mondal, Jimmy Morgan, Xiaolin Mou, Shelley Nakamura, Ryan Ohray, Michelle Parks, Martin Perez, Brian Pers, Israel Price, Juan Pino, Joycie Portlock, Cyran Sourab, Jaimie Sanchez, Oscar Rodriguez, Jared Rosenfeld, Michael Roy, Susan Ruttinger, Mike Smith, Mike Smith, Judy Smith, David Schiller, Amy Schwartz, Kate Shih, Erik Stensberg, Soojin Son, Michael Springer, Lauren Sutro, Emily Sung, Morris Tan, Emma Teverson, Carolina Torres, Elaine Tao, Melissa Viny, Nathanael Wills, James Wang, Navin Weerakoon, Steven Yang, Michelle Yoon

#### School Representatives - Volunteer Coordinator: Farhana Banu


#### Tour Representatives - Volunteer Coordinator: Doc Bowman

- Victoria Chen, Cathy Coury, Shuai Hu, Shuang, Rishi Jinnat, Jon Levent, Monica Lez, Patrick McCormick, Jason Miller, Dave Washington, Bob Yang

#### Logistics - Volunteer Coordinator: Tim McAnany

- Stephanie Aries, Alan Aki, Alex Bliss, Brian Cross, Jasmine Chowdhury, Rumps Das, Matt Esh, Najiee Jahan, Anna Gallant, Carrie Berman, Crystal Harris, Takeshi Irie, Darius Jeanco, Laurent Leong, Cherry Liu, Lyen Lhuang, Anne McLeod, Carrie Metzler, Xiaolin Mou, Paul Norango, Dewayn Owens, Brandon Phillips, Aditya Prabhatkar, Chris Rezak, Rich Sanford, Kevin Thompson, Sam Lowell

#### T-Shirt Design - Chris Williams

### Hands on Demonstration Volunteers:

Tim Shiao and Joshua Birkett for the Chemistry Magic Show; Tim Denis and the Inverted Pendulum demonstration; Adam Matuszewski and Brad Matuszewski with their Lighter Than Air Blimp; Michael R. Andrews and the Magnetic Levitation demonstration; Dave Olsen and the MITEE Mouse demonstration from the Lab for Electromagnetic and Electronic Systems

### MIT Departments and Groups:

- Dave Fleit and the Campus Activities Complex; the Safety Office; Will Newett and the Artificial Intelligence Lab; Giclee Prods, Julie Ann Villa, Cindy Deray
- Tervalan and the Edgerton Center; Eric Werwa, Professor Kirk Koltenbrander and the Department of Materials Science and Engineering; Paul Riverbank and the Plasma Fusion Center; Dick Perdichizzi, Gerry Lerma, Helen Halvors and the Wind Tunnel/Space Gravity team.

We appreciate all of your assistance and apologize for any names we missed!

Michael Bryzek '99

Shonna Yih '97

Science Expo Coordinators
We hope you don't fall in any holes this summer, but just in case...

If you're graduating or leaving MIT:
your 96/97 MIT student hospital insurance lasts thru 8/31/97*

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COMING TO THE $50K FINAL AWARDS

Join us as we award $50,000 in prize money to the hottest new ventures being started by MIT students!

Kevin Kinsella, CEO of Sequana Therapeutics, will deliver the keynote address.

WHEN: Wednesday, May 14, 6:00 PM

WHERE: Kresge Auditorium

Information about the Competition, including a list of semifinalists, is available at our web site.

http://web.mit.edu/50k/www/
Encryption, from Page 1

of Illinois at Urbana-Champaign, Oregon State University, Pennsylvania State University, and Carnegie-Mellon University. MIT peaked at third place last week.

At the current rate at which keys are being checked, it is estimated that the code will be broken in approximately 27 weeks. However, because the number of machines participating has been growing rapidly—doubling every eight to 11 days—the key may be found much sooner.

Athena resources may be used

James M. Kretchmar '91, chairman of the Student Information Processing Board, said that SIPB was "thinking about installing a client" to allow students to run the client while they were logged in if they wished.

"We can't automatically run the client on workstations," he said. "We're not IS." In addition, "[users] should get full resources of the Athena workstation they are using while running a DES challenge client."

Kretchmar said that SIPB had not resolved which effort to join. Verser's effort is only one of several plans to break the key. SIPB is looking at an effort based on an algorithm developed at MIT, Kretchmar said.

Since finding the key will result in a monetary gain, questions arise as to whether participating in this contest violates Athena rules of use. "The Internet is available for student use," said Karen Hersey, intellectual property counsel for IS. However, students are "not supposed to be conducting commerce" using the Internet.

It is "probably questionable" whether the effort would be considered a commercial effort since it has "educational value," Hersey said. But if the effort became a nuisance by overloading resources, IS might step in to stem its growth, she said.

DES Challenge Statistics

<table>
<thead>
<tr>
<th>No. of Keys Tested</th>
<th>No. of Computers</th>
<th>University</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.6857x10^12</td>
<td>1</td>
<td>University of Illinois at Urbana-Champaign</td>
</tr>
<tr>
<td>8.3233x10^11</td>
<td>4</td>
<td>Oregon State University</td>
</tr>
<tr>
<td>7.0834x10^12</td>
<td>1</td>
<td>Pennsylvania State University</td>
</tr>
<tr>
<td>6.7939x10^12</td>
<td>1</td>
<td>Carnegie-Mellon University</td>
</tr>
<tr>
<td>6.7432x10^12</td>
<td>2</td>
<td>Massachusetts Institute of Technology</td>
</tr>
<tr>
<td>5.5431x10^12</td>
<td>1</td>
<td>Michigan Technological University</td>
</tr>
<tr>
<td>4.9819x10^12</td>
<td>2</td>
<td>University of Wisconsin</td>
</tr>
<tr>
<td>4.6815x10^12</td>
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<td>University of Notre Dame</td>
</tr>
<tr>
<td>3.3286x10^12</td>
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<td>Rensselaer Polytechnic Institute</td>
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</tr>
<tr>
<td>2.8977x10^12</td>
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<td>University of Arkansas-Fayetteville</td>
</tr>
</tbody>
</table>

Truman Scholarships

Informational Meeting

Thursday, May 8, 1997
4:00 p.m. E51-275

Are you considering a career in government, education, or other public service sector? Find out how you can apply for a $30,000 scholarship during the fall of your junior year. Scholarships are awarded to juniors for use during senior year and graduate school.

Jacobo Orenstein-Cardona, Class of '97 and this year's Truman Scholar, will be available to share his recent experience with you.

If you are a U.S. citizen and in the top half of your class, you may be eligible to apply.

For more information, please contact the History Office at 253-4965, or visit the Truman Scholarship Foundation web site at http://www.truman.gov/.
Faculty Join Ranks of National Academy

Btgenewe said he wasn’t too surprised that MIT had more NAS members elected this year, but “what’s unusual about those three is that they are extremely young, with an average age of about 40.”

“The Academy is usually a final stage in a person’s career, an honor that is given when you’re quite senior,” Birgeneau said.

Btgenewe also noted another special feature about this three. They “are outstanding researchers, but each is also an outstanding classroom teacher.”

Lander has won the Baker Award for Teaching in the past, and Ceyer has won the School of Science teaching prize.

Economist moves to genetics

Lander was informed of his election when he got a phone call last Tuesday from David Botstein, the chair of the genetics department of the NAS. “It was special hearing it from him,” Lander said, referring to the fact that he originally got switched fields, “I was delighted. It is a tremendous honor from one’s colleagues, especially considering that I switched fields,” Lander said, referring to his decision to go from economics to genetics.

“ar was very pleasantly surprised. It’s a great honor and I’m thrilled to be elected to be a member,” Lander said.

Birgeneau said. Ceyer herself was “amazed. It’s a great honor and I’m surprised. It’s a great honor and I’m pleased as he is with being elected to the NAS, “We think we need to get back to work. We need to get the public science and technology in our schools.”

Kim said.

Ceyer examines surface chemistry

Ceyer, the third new NAS member, has been at MIT for roughly the past 15 years and “has done very elegant research in chemistry which occurs at surfaces. She combines deep understanding of chemistry with the paper [techical] skills of doing high vacuum [surface experiments],” Birgeneau said.

Ceyer herself was out of town and could not be reached for comment.

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(after May 7)
Shuttle Reservations Accessible Via Web

Shuttle, from Page 1

hour and a half," she said. "We wouldn't have it stop in Boston and make the trip in an hour and a half." A stop in Boston might be considered in the future.

"If the shuttle runs well, I'll be the champion of the shuttle for terms to come," Carter said, "but I have to convince 30 other council members" that it is a worthwhile endeavor.

Shuttle uses online registration

Last fall, technical issues hurt the project somewhat. The previous World Wide Web-based system had difficulty dealing with confirming reservations on busses. As a consequence, some students asked for a space and never got confirmation.

"The major job was in registering people and confirming them," Carter said. "There was one person handling about 300 e-mails."

"Not that many [problems] came up" in creating this year's Web site at http://bhs.mit.edu/shuttle/, said Benjamin Ho '00. The system is in use this year is also completely automated, so there should be few problems.

At the moment, the page is running off of Ho's personal machine. "I guess the VA doesn't have a computer yet, and you can't run these programs off of Athena due to security concerns," Ho said.

In order to register, students need to leave some basic information on the server. "All you really need [to enter] is a name, an e-mail address, a day, and time," Ho said.

Students will also be able to see who is signed up for each bus and see what buses are full. "If you want to coordinate with somebody else, you can see where that person signed up," Ho said.

The Sloan Subject Prioritization System

Bidding Dates for Fall Term Classes

accessible through WebSIS <http://student.mit.edu>

Round I (Sloan only)
Opens 9:00 a.m., Monday, May 5
Closes 5:00 p.m., Sunday, May 11

Round II (Sloan and non-Sloan)
Opens 12:00 noon, Tuesday, May 13
(Round I results posted on May 13)
Closes 5:00 p.m., Sunday, May 18

Round II results will be posted on the web in late August

Where did you watch the marathon?

Join The Tech's sports department and get press passes to sit at the finish line. Get free tickets and other stuff, too. Talk to Erik at K-1541, or e-mail baldley@eidee-tech.mit.edu

Explore the Last 18 inches on the Information Highway

1997 International Symposium, Seminar, and Exhibition

Hynes Convention Center, Boston
May 11 – 16, 1997

Exhibits May 13 – 15
Show Admission: $10.00

Tues 9 am–7:30 pm, Wed 9 am–5 pm, Thurs 9 am–2 pm

The latest in Display Technology, Manufacturing, Integration, and Applications, including Liquid Crystal Displays, Plasma Display Panels, Miniature Displays, Projection Displays, LCD monitors, 3-D Head Mounted Displays, and Hang-on-the-Wall TV receivers.

And a special free exhibit celebrating the 100th anniversary of the CRT, including a 1936 reproduction of Braun's 1897 tube from the Harvard Historical Collection, an early GenRad oscillograph, the first commercial RCA color TV, a CBS color-wheel TV, a new FED, and many old and unusual CRTs and applications.

For information about the professional technical sessions and seminars, call Mark Goldfarb at (703) 413-3891 or fax him at (703) 413-3891.

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Despite a solid performance by the Infield, like this catch by second baseman Nilkiihl Batra ’98, backed up by first baseman Joel Morales ’99, MIT lost 1-0 to the Suffolk University Rams in the first game of Saturday’s doubleheader at Briggs Field. MIT lost the second game 5-1.

Jeff Holly G passes the ball from the scrum In the MIT rugby team’s 20-0 victory over Boston Gentlemen rugby club on Saturday.