Hubert Wins Lemelson Prize
Graduate Student Awarded for Nanotechnology Work
By Nancy L. Keuss

Brian N. Hubert G has been named the recipient of the seventh annual Lemelson-MIT Program $30,000 Student Prize.

Hubert, a graduate student in Mechanical Engineering, has developed the world’s first universal “pick-and-place” nano-assembly machine, able to lift and assemble nearly any type of material, several thousand atoms at a time.

Hubert hopes his nano-assembly process, the result of over 18 months of work, will someday have a significant effect on genetically-based medicine.

“The broad range of Brian’s endeavors was impressive to us. It’s rare to see someone who can write and play music like Mozart one day and invent devices that build on an atomic level the next. Brian is a true Renaissance man,” remarked Josh Tolkoff, chairperson of this year’s Student Prize judging panel.

“There’s an exciting application to ultra-dense gene chips,” Hubert notes. Segments of DNA strands placed on gene chips and patterned into these ultra-dense gene chips could “allow for a reading of the genome in minutes.” This, in turn, may aid doctors in detecting gene-related diseases well before an individual displays any symptoms.

A second invention presented at the ceremony was Hubert’s plastic Lexicon engine, which uses magnets to store and retrieve data. Another creation was a “data cube,” consisting of plastic cubes with data embedded into them, which can be connected to create a larger data storage system.

Wang Discusses Biotechnology in Asia
By Dana Levine

Institute Professor Daniel I. C. Wang ’59 spoke about the development of biotechnology industries in several Asian countries last night.

The talk, entitled “Impact of Biotechnology: The Pacific Rim,” discussed government and private attempts to develop the biotechnology industry in China, Hong Kong, Singapore, and Taiwan. Wang has served as an advisor on biotechnology to the governments of these countries for over ten years.

MIT Committee Regulates Experiments On Animals
By Eun Lee

Animal research, which is performed by several laboratories around MIT, has emerged as a sensitive and difficult issue for both researchers and protesters alike.

MIT’s Committee on Animal Care (CAC) was established to ensure that all Institute researchers working with animals comply with federal, state, local and institutional animal care regulations.

The CAC is responsible for inspecting animals, animal facilities and laboratories, and reviews all research and teaching exercises that involve animals before experiments are performed.

President Charles M. Vest appoints the 13 to 15 members of the committee, who represent an equal mix of both researchers and non-researchers. Dr. Barbara O’Pray of the Medical Department head the committee since 1994.

“The main point I’d like to get across is that we take this very seriously,” said O’Pray. “All of this research is tightly regulated.”

Included on this committee are an ordained minister, two veterinarians, an animal technician, and an outsider with no affiliation with MIT who is required by law to be on the committee.

“We have had very few minority opinions because we work to make everyone happy,” said O’Pray.

Animal Testing, Page 21

Women’s basketball defeats Wheaton on Senior Night, Page 24

Comics

OPINION
Philip Burrowes argues that the contributions of African-American women have been ignored by educators and mainstream media.

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BUSH TAx ProposeU UNDER FIRE

Centrist Republicans Jeffords, Chafee Oppose Bush Plan
By Janet Hook

The first signs of trouble for President Bush's tax-cut measures have surfaced on Capitol Hill, as moderate Republican lawmakers have begun breaking ranks to oppose cutting taxes as deeply as Bush has proposed.

The two most prominent defectors are Sens. James M. Jeffords of Vermont and Lincoln Chafee of Rhode Island, who argued that Bush's plan to slash taxes by $1.6 trillion over 10 years is too skewed to the wealthy and would leave too little margin for error if projected budget surpluses do not become reality.

Jeffords and Chafee were joined Thursday by Sens. Ben Nighthawk Shaheen of New Hampshire, and Sen. Jon Corzine of New Jersey, who sought Thursday to focus attention on the issue of tax cuts for the wealthy and for the near future.

The legions in GOP unity on the issue were hailed by Democrats, who said it could mean as many as 1,000 votes short of being able to pass the tax cut plan in the Senate.

Before the meeting with Democrats and other GOP budget negotiators, Bush acknowledged that he "has been a lot of work to do" in selling the tax cuts.

Still, some GOP leaders voiced confidence that moderate Republicans would fall in line and vote for Bush's tax bill in the end — just as they did in producing unanimous GOP support for the controversial nomination of John Ashcroft as attorney general.

"This is not the beginning of a crack," Senate Majority Leader Trent Lott (R-Miss.) said. "When the time comes, there will be more than enough votes there." At the least, the early GOP defections are a sign that obtaining party unity on taxes is going to prove harder than on the Ashcroft nomination. In a Senate split 50-50 between the parties, losing support from just Senate and Chafee could cause trouble for Bush's tax plan, given that so far only one Democrat, Sen. Zell Miller of Georgia, has announced his support for it.

WEATHER

Situation for Noon Eastern Standard Time, Friday, February 16, 2001

STAFF METEOROLOGISTS

A Presidential Weekend

By Efren Gutierrez and Greg Lawson

Today is the last day of our weekend, and it's time to either catch up on sleep, go skiing, or just chill in Boston.

Before you make any plans, you may want to put them off until Saturday, when the sun will stay above the horizon, allowing showers to move in from the west.

A high pressure system will move over the area, bringing with it clearer skies for Saturday afternoon and Sunday. Sunday will be quite chilly as compared to the previous days, but also provide a good chance for potential snow showers.

The weekend weather will last until President's Day, when there is a slight possibility of light snow showers.

So, whether you're going away from the New England area, do not head toward the Oregon coast. A small low pressure system from the Pacific Northwest will move in from the west.

In the low 30s (1-4°C), some snowfall is possible, but with no major storm systems moving in.

Last weekend, the sky was mostly cloudy, with a high of 42°F (5°C). This weekend, expect sunny skies with a high of 50°F (10°C).

Weekend Outlook

Today: Cold air with light snow showers moving in from the west. High of 42°F (5°C) with wind gusts up to 20 mph.

Saturday: Sunny and clear, with highs in the low 50s (10-15°C).

Sunday: Rain and snow showers moving in, with a high of 45°F (7°C).

By Tracy Wilkinson

On a high of 66°F (19°C), with a low of 46°F (8°C).
Colombia Requests Increased Aid From U.S. to Fight Drugs

By Scott Wilson

THE WASHINGTON POST

President Andres Pastrana said Thursday he plans to seek a fresh infusion of U.S. financial assistance through the Andean regional initiative with President Bush, to help spur economic development in the region where U.S.-trained troops are destroying drug crops.

Pastrana also said the newly revived peace process with Colombia's largest guerrilla group depends on an increase in such economic assistance, perhaps as much as $2 billion a year, to help the country weather the United States alone. The money would be used to address high unemployment, which has become a major obstacle that prompt Colombians to join drug-trafficking or illegal armed groups for their livelihood, he said.

Pastrana said his trip to Wash-ington this week was aimed at helping himself and his country to the new adminis-tration at an important moment for his government's peace negotiations. The Bush administra-tion has inherited a three-year, $1.3 billion aid package for Colombia that is designed to reduce コロンビアの最大のゲリラ組織との新しい和平プロセスが進む一方で、経済開発に関する支援が増加する必要があります。United States alone. The money would be used to address high unemployment, which has become a major obstacle that prompts Colombians to join drug-trafficking or illegal armed groups for their livelihood, he said.

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Letters To The Editor

Tech Dooms Physicists

It was with amusement that I read your "World and Nation" article about the experimental confirmation of supersymmetry ("Scientists Find Evidence to Support Supersymmetry," Feb. 9), done by some "scientists," a few more "physicists," an unidentified "ongoing experiment" and a mysterious list of "results announced Thursday." Is it asking too much to know who we are talking about — maybe even to get the name of a lab? Or are scientists forever doomed to be cast as an occult, anonymous mass? Oh, please say it isn’t so.

John Steinberger

Police Logs Were Delightful to Read

I would like to concur with Erin R. Cornwall’s letter to the editor ("Bring Back Police Log," Feb. 13). Having recently returned from a semester abroad, I was most disappointed to see the loss of the Police Log from the pages of The Tech. It provided a point of contact and communication between the Campus Police and the community. As Cornwall pointed out, it was a delight and a pleasure to read on a regular basis. It provided points of discussion in each issue: the elegant understatement of "Tang Hall: Woman reported screaming. Same lady found to be disoriented." I urge The Tech and the Campus Police to return the Police Log to its rightful place in these pages.

Joseph N. Kaye

"He tried to put me at ease about the impact of his policies by guiding and giving me a nickname... ‘Gullible Gus.’"

Opinion Policy

Editorials are the official opinion of The Tech. They are written by the editorial board, which consists of the chairman, editor in chief, managing editor, news editors, and opinion editors.

Dissenters are the opinions of the signed members of the editorial board. They are written and unsigned letters will not be accepted.

Letters to the editor are welcome. Electronic submissions are encouraged and should be sent to letters@the-tech.mit.edu. Hard copy submissions should be addressed to The Tech, P.O. Box 397029, Cambridge, MA 02139-7029, or sent by interdepartmental mail to Room W20-483. All submissions are due by 4:30 p.m. two days before the date of publication.

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; shorter letters will be given higher priority. Once submitted, letters and cartoons are the official opinion of The Tech, and the Tech reserves the right to edit or condense them.

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Duby, the Pied Piper

Mike Hall

Sticks and stones may break your bones, but names will never hurt you — unless, of course, you're President George W. Bush.

At least, that's what Jason Wasyliw would have you believe. The estimable former columnist for The Journal announced the fact that newspaper columnists used the nickname "Duby" when referring to our new president [*The Journal of Doctoropolis*, Counterpart, Feb. 2001]. Wasyliw believes that the nickname "plays on the negative stereotypes of Southerners," but whatever its intent, it's as slow as their slurred accents and relaxed lifestyles.

On one hand, Wasyliw's right. Many columnists, myself included, have been guilty of propagating this unfair stereotype by using "Duby" in our columns. Therefore, I apologize to all Southerners by associating them with George W. Bush.

I also apologize to you, the reading public, for not criticizing this new president and the president before him. After all, why stop at "Duby" when he's done plenty of other bonghead things? Like delivering verbal messages in the form of: "I am mindful not only of preserving egos for myself, but for the presiden- sympos as well." Or crashing and burning at Midland. Or trading away Sammy Sosa.

On the other hand, though, Wasyliw misun- derstands why columnists began calling Dubya "Dubya" in the first place. He's right when he says that the nickname is being spun "to make the president seem more informal, a regular guy like the rest of us." But he's wrong when he assumes that the media are doing the spinning. Rather, it's a conscious effort by Dubya and his staff to

Bush could sweet-talk Democrats away from their "charm offensive." make him seem like Joe Public. After all, most Joe Publics don't go to Andover and Yale. Their genealogies are pages. Dubya learned that Americans no longer wanted a father figure in the White House. They want-

And as far as friendship goes, Dubya's the best friend anyone's ever had. His best skill — perhaps his only skill — is his backbone homie. Throughout his professional life, Dubya realized that his bond of friendship can smooth over any ideological divide, whether in business or in politics. Unlike Al Gore, Dubya gave the American people the impression that he was listening to them and that he actually gave a damn about their petty problems. He also gave Democrats and inde- pendents the hope that, as his new friends, they would have a say in the path of policy over the next four years.

Of course, that's where the danger lies in Dubya's "charm offensive." Like the Pied Piper, he has the ability to charm Democrats with a wave of friendship before leading them into a policy to a watery grave. With his open hand, he's invited the Kennedys to a White House evening of honor: and he's unfail- ingly given American liberals a leg up in the democratic conundrum. Dubya has. His charm is the biggest square for the Democrat's battleground. He's already given social liberals cause for con- cern by taking the increase tied to abortion and by advocating faith-based initiatives — both within days of becoming president. His idea of John Ashcroft for Attorney General demonstrates further that Dubya doesn't care about political positions. If Dubya's charm makes Democrats let their guard down, there's no telling what damage he will do to our freedoms.

Sadly, there are signs already that Dubya's "charm offensive" is working. He has attrac-
ted even if the enhancement really were an improvement." The Declaration calls for the identification and suppression of technological "practices conducive to the welfare of the races, or the nonreproductive cloning and possibly even germ-line therapy. It is far to do a threat to human dignity? Once again, the issue is whether individuals will have the freedom to choose what's best for themselves, or whether some elite will force its stance on everyone. Do you prefer your dignity or your freedom?

Forcing genetic technology on everyone creates "a pernicious and permanent illness" which would be an effort doomed to failure, and would bring great suffering in the process. Denying the technology to the world's poorest people is as perverse, creating as much suffering as\/ 

Do you prefer your dignity or your freedom?

The Freedom of Life

Kris Schnee

There is a technology being perfected right now that will transform every aspect of our culture, from international politics to mating rituals. It is a threat to the status quo, some say, and must be stopped in its tracks. This fearsome technology is, of course, the auto-

Oh, wait, that was last century's apoca-

lypse.

This time, the invention making the head-
lines is genetic engineering, brought to the forefront once more by this week's publica-

tion of the Human Genome Project data (in *Nature* and *Science*) on a wave of short-sighted criticism. Contrary to the fears and jokes, though, the new technology will be not only exciting but beneficial to the world, if we safeguard our freedom to use it.

In *The Washington Post*, George F. Will writes of AND( for "inserted DNA"), the first genetically-modified primate. Rather than hailing the advance for its scientific and medical value, Will BLANDS as "The Monkey That Could Mean the End" for the human race.

Will sees a "slippery slope to the abolition of humanity" because any genetic change cre-

ates a cloning up of the enhancer over the other child he physically enhances by vaccinating them against diseases like polio? Are your parents even considering sending you to college to enhance your abilities? The use of genetic engineering does not imply any sub-

servience to the patient, or the physician, or in any way affect the debt children owe their parents.

And what is "enhancement," anyway? Will and other critics draw a razor distinc-

tion between "therapeutic" use of genetics and the more ambitious uses they term "eugenics." This word is used to breed hate and fear of honest science. Eugenics means sterilizing and killing people, and you will not find a biologist this side of Nuremberg who endorses it. Instead, genetics offers the voluntary use of medical technology to greatly extend human life. There is no clear line between the correction of a genetic defect that causes ill health and the selection of an individual who already is pathologi-

cal. Throughout his professional life, Dubya realized that the bond of friendship can smooth over any ideological divide, whether in business or in politics. Unlike Al Gore, Dubya gave the American people the impression that he was listening to them and that he actually gave a damn about their petty problems. He also gave Democrats and inde-
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The positive contributions of blacks are often overlooked because of the context of the culture in which they emerge. Slave labor was the cornerstone of the American economic jugger-

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"Counterpoint,* he has the ability to charm Democrats away from their agenda under his "charm offensive."
Abortion: Living for the Future

Christopher D. Smith

Decades of political and social conflict over abortion have seen the issue transformed from the privacy of the woman's decision to the right of each woman to lead the life she chooses. The fight to secure the right to abortion is the culmination of the women's rights movement.

The first women's rights convention was held in Seneca Falls, New York, in 1848. The purpose was to discuss and secure the rights of women, including the right to vote. The Seneca Falls Declaration of Sentiments was adopted at the convention, which was a precursor to the modern feminist movement.

The Equal Rights Amendment (ERA) was introduced to the US Congress in 1923 and ratified by 35 states by 1971. However, it was never adopted into the Constitution because it failed to be ratified by 38 states within the required time frame.

The Supreme Court case Roe v. Wade (1973) established a woman's right to abortion, but the decision was severely limited by the Supreme Court's interpretation of the Due Process Clause of the Fourteenth Amendment. The Court ruled that states could not prohibit abortions before the point of fetal viability, which was generally held to be at 24 weeks of gestation.

The pro-life movement has been proactive in its efforts to restrict abortion, using legal and political means to achieve its goals. However, the pro-choice movement has also been successful in defending the right to abortion, through court challenges and legislative battles.

The current landscape of abortion laws is complex and varies widely across the United States. Some states have strict restrictions on abortion, while others have more permissive laws.

In summary, the issue of abortion continues to be a controversial and divisive one in the United States. The struggle for abortion rights is ongoing, and will likely continue to be a major political and social issue for years to come.

There is a snide zeal present among those who believe abortion is wrong. It's a social issue that has been fueled by political motives and has been used as a tool to advance the personal agenda of certain politicians and activists.

But, pro-life groups charge, use of ECPs is not an alternative to legal abortion. They argue that ECPs are not a safe or effective method of contraception and that they do not prevent abortion.

Banning birth-control pills, bans on fetal-tissue research, and anti-choice organizations are all examples of the extreme tactics used by the pro-life movement to prevent abortion.

The pro-life movement has also been successful in using the courts to restrict abortion rights. The Supreme Court case Casey v. Planned Parenthood (1992) upheld a Pennsylvania law that required women to undergo a 24-hour waiting period before obtaining an abortion.

However, the pro-choice movement has also been successful in using the courts to protect abortion rights. The Supreme Court case Planned Parenthood v. Casey (1992) upheld the Pennsylvania law, but also upheld the right to abortion.

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Rick C. Montesanti '00 purchases a drink from Rick Y. Chang '01 at the newly renovated Coffeehouse, which reopened at the beginning of the term. The renovations remodeled the serving area over winter break; summertime work upgraded the rest of the area.

**NEED CASH?**

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**FILM REVIEW **

**Hannibal**

_A Big Slice of Nothing, Sauteed_

By Rebecca Loh and Vladimir Zelevinsky

_Film Review_

Directed by Ridley Scott
Written by David Mamet and Steven Zaillian
With Anthony Hopkins, Julianne Moore, Gary Oldman, and Ray Liotta

The morals of _Hannibal_ the movie:

(a) It's wrong to betray people for money;
(b) It's wrong to kidnap people, and even more so if you plan to feed them to wild, flesh-eating pigs;
(c) It's good to make movies that are based on bestselling novels and that are sequel to hits

Precisely ten year after the release of _The Silence of the Lambs_ (1991), Anthony Hopkins, who played FBI trainee Clarice Starling in the first one. Though Foster officially dropped out because of conflicting projects, a more likely reason is that she read the script and realized the movie would suck.

And that's the screenplay that was written by two greats: David Mamet (Glengarry Glen Ross, among others) and Steven Zaillian (Schindler's List). Sadly enough, this screenplay is more reminiscent of Mamet's _Ronia_ and Zaillian's _Clear and Present Danger_ — that is, a whole lot of goings-on with pretty much nothing happening.

Another really cool guy involved here is director Ridley Scott, taking the reins from Jonathan Demme who helmed _Silence_. Scott's mind here is clearly not on making a coherent narrative. He's more interested in making _Hannibal_ portrait formed by the flock of psycho psychiatrists, Hopkins dominates the screen, again assuming the hypnotic voice and coldly efficient movements of the good doctor. The difference this time is that he gets to play a good guy, at least compared to the assorted slime-balls that populate the movie. With Gary Oldman (buried under a pile of makeup) as a vengeful freak and Ray Liotta as a racist, sexist, homophobia, corrupt official, _Hannibal_ "the Cannibal" seems downright warm and cuddly.

And that's much much more than can be said of Julianne Moore's version of Clarice Starling. Physically, Moore fits the part, but that's as close as she gets to capturing the character. Whereas Jodie Foster had given Starling depth and vulnerability in _Silence_, Moore somehow managed to destroy the character, portraying her as cold and efficient, and completely lacking the charisma that made us like her in the original. Besides that, well, just say that Foster is much more physically attractive ...

And speaking of attractiveness, the makeup crew for this movie deserves much praise for turning Gary Oldman into one of the most hideous monstrosities in film history. Generally speaking, the gore and special effects are done very well. There are several scenes in the film where the gore is so shocking and disgusting that it is actually pretty damn cool.

The movie is also really not boring (if this sounds like darning with faint praise, it isn't, but, when all is said and done, it is entirely pointless. It only serves to make money for the studios that released it — and, oh yeah, as a twisted reminder that if you are mean, someone just might come and eat some of your body parts. So there.

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web.mit.edu/alum/connect/students/phonathon
February 16, 2001

The ARTS

On The Town

A weekly guide to the arts in Boston
February 16 - 22
Compiled by Fred Choi

Soulful female vocalist Rachael Sage shares the bill with Trina Hamlin on Wednesday, February 28 at Club Passim.

Jazz Music

Reggelation

Concerts: 876-7777
Tickets: 617-262-5000

Feb. 16-17: Ima Thomas.
Feb. 20: Boys Noize.
Feb. 21: Steve Lacy Trio.
Feb. 22: Greg Priolo & Heavy Love.

Chameleon Jazz Ensemble

Tickets: 722-8829

Feb. 21-23: Dan Zanes & Friends.
Feb. 24: Steve Lacy Trio.
Feb. 25: Greg Priolo & Heavy Love.

Clubs

Assorted Clubs

Feb. 15-17: The Places Team.
Feb. 21: J'aime.
Feb. 24: Four Rooms.
Feb. 25: J'aime.
Feb. 26: The Tea Party.

The Middle East

Tickets: 820-1000

Mar. 3: The Gaslight Anthem.
Mar. 4-5: The Tea Party.
Mar. 6: The Middle East.
Mar. 7: The Tea Party.

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Popular Music

Garzone

Mar. 3: The Tea Party.
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The following student Coop members have been nominated by the Stockholders as candidates for the Board of Directors for the 2001-02 academic year.

M.I.T. UNDERGRADUATE AND GRADUATE STUDENTS:
Fred Fagerstrom
Michael Leu
Tina Salmon

HARVARD UNDERGRADUATE STUDENTS:
Oliver Bell
Tina Dutu
Joshua Cable
Elena Schonberger

HARVARD GRADUATE STUDENTS:
Yas Hadas GSAS
Andrew Starr

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Time Change this term!

Athena Minicourses
Spring Term 2001
Time Change! 12noon → 1:00pm!

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<th>Mon</th>
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**ALL MIDDAY CLASSES @ 1:00-2:00pm. (No noon classes this term.)**

Quick introductory sequence: FIRST COURSE, WORKING, WORD PROCESSING OPTIONS means More Material in Less Time: files and directories, e-mail and word processing, orientation and help resources, all in just three hours.

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• For course descriptions: see the back of this flyer or web.mit.edu/minidev/
• All minicourses taught in Room 3-343. Minicourses are one hour each.

HOW TO REGISTER FOR A MINICOURSE: You can't! They're free!

• No pre-registration needed... JUST SHOW UP FOR THE CLASS.

** Don't wait! Take them now. These won't be offered again until August 2001.

*Athena is a registered trademark of the Massachusetts Institute of Technology.

I/S Athena Training Group
All Classes in Room 3-343
Ellen J. Siemlar, Larson ScD '67 donates blood yesterday in La Sala de Puerto Rico at the Red Cross Blood Drive. The blood drive closes its week-long stint at 5 p.m. today.

A motorcycle operator license is more important than you think. The fact is, unlicensed riders are over-represented in fatal crashes. So get your license. While an afternoon at the DMV isn’t much fun, having a license is something you can live with.

The Tech

Looking to PARTY for Spring Break 2001? STS has guaranteed low prices to the following destinations:

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Farallon Capital Management, L.L.C. is a private investment firm that manages over $7 billion in equity capital for institutions and high net worth individuals and the firm’s investment strategy is event-driven with a focus on merger arbitrage, value equity, real estate, restructurings, distressed debt and liquidations. Investments include equity securities, public and private debt, direct investments in private companies and real estate. The firm is active globally, with positions in the U.S., Europe, Latin America and Asia.

Employment Opportunity

Farallon is seeking Research Analysts for its Arbitrage, Public Equity, and Debt groups. Research Analysts will be involved in every aspect of the investment process. The emphasis will be on researching and summarizing company and industry data, conducting industry and competitive analysis, preparing and updating valuation models, and monitoring existing investments. The Research Analyst position offers a unique opportunity to develop a comprehensive understanding of investing and portfolio management in an intense and intellectually stimulating environment.

Qualifications

Farallon is seeking candidates from all majors for its San Francisco office. Candidates should have a strong academic background, excellent analytical and quantitative skills and a genuine interest in investing.

Contact Information

Candidates should email a cover letter, resume, GPA, and SAT scores to the attention of Analyst Recruiting at jobs@farcap.com. Material may also be faxed to (510) 217-6495.

Farallon Capital Management, L.L.C

San Francisco  Greenwich  London
John DeWitt of Bowdoin College presents Tuesday's roundtable lecture series on Civic Environmentalism while William Shutkin, MIT lecturer in Urban Studies and Planning, looks on. The talk was hosted by the Environmental Policy Group at MIT, which will host its next roundtable discussion on May 8th.

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This year we are looking to recruit a number of potential graduates or postgraduates to work in Global Equity Derivatives initially in London, but with the possibility of future opportunities in Continental Europe, the US or Asia.

To find out more about these opportunities attend the Information Session scheduled for the 22nd February from 5.30pm - 7.30pm in Room 24-121 (MIT Campus)
(Opportunity details are posted on JobTrak.com under Job ID# 1017442585)
"It Happens Here, Too"
Raising Awareness About Sexual Assault and Sexual Health at MIT

(left) Katie Koestner delivers an emotional presentation on her experience with date rape last night in 10-250. MIT is one of the hundreds of universities at which Koestner has spoken to raise awareness.

(above) Female students gathered in the Cheney Room on Tuesday to look at experiences of black women in relationships and learn what makes for a healthy relationship. From left to right are Nnennia Ejebe '04, Rita Grisham '04, Aisha Stroman '00, Afifa Whisby '04, Leslie Robinson '04, and Ivana Sturdivant '04. The event is part of a week-long program at MIT to raise awareness for issues relating to sexual assault, sexual health, and relationships.

---

UA Election Commission

Announces the debut of the....

Transitions Debate Series

Featuring your Class Presidential and UAP/VP Candidates debating hot issues & sharing their talents in the NEW Transitions Lounge

2004  Tuesday, Feb. 27, 2001  @ 8pm
2003  Thursday, March 1st, 2001  @ 8pm
UAP/VP  Friday, March 2nd, 2001  @ 4pm
2002  Sunday, March 4th, 2001  @ 8pm

PACKETS ARE DUE: 2/20/01 @ 5pm
Memories of Roadkill Buffet serenade Britton Bradley on Valentine's Day. For five dollars, students could commission the RKB to perform an improvised “Doo Wop” serenade based on five facts about their sweetheart. The serenaders, from left to right, are Ellie Boyle '04, Ben Balas '02, Jessica Brodlin '03, and Erin Conwell '03.

The MIT Center for Education and Computing Initiatives is compiling animations and simulations for the class. “A whole host of people are working on software,” he said.

Belcher devised TEAL concept
Belcher also discussed the origins and his vision for the future of the TEAL program. He said that he developed the idea when, after lecturing for three years, he found himself teaching in lecture halls only 50 percent full by the end of the semester. “I didn’t think that it was effective,” he reflected. He felt that with a hands-on approach it was possible to “learn things at a much deeper level with the same amount of effort.”

We begin our education believing that the facts we learn and the technologies we master are the foundations for our careers. But changes in careers and common technologies become obsolete quickly. In fact, alumni records show that it is likely many of us will work in multiple fields or change fields entirely. We may also move from Engineering and Science into non-technical areas such as Marketing or General Management.

The ability to do excellent work in a range of fields, and meet diverse challenges with clear, bold thinking and creative solutions is the hallmark of a good education.

However, to work effectively in fields that are new to us, we can not rely on facts and technologies that may have become obsolete or are not applicable. We must depend on fundamental thinking and problem-solving skills that are effective in any discipline, and in working virtually any type of problem.

These are analogous to the basic skills — strength and coordination — that a superb athlete will learn in preparation for a lifetime of competition; skills that will serve him or her in a variety of different sports.

For the scientist or engineer, the heart of the learning process is finding and solving interesting problems. This is true whether the subject is Quantum Physics or management. With proper mentoring, the mental struggle of dealing with a difficult and important problem results in the development of mental skills that cannot be learned in any other way, and that are applicable to a wide range of new situations.

The skills we learn include the ability to observe all aspects of a problem, to integrate a wide range of knowledge, to analyze in depth, to obtain insight, and to find and rigorously test creative solutions.

These problem-solving skills are taught by any good teacher no matter what the subject. For maximum benefit the student must realize the importance of these skills to his or her education, and must consciously focus on developing them not only in every course in college, but over a lifetime of learning.

Space Concerns Are Obstacle for TEAL

The purpose of the program is to engage students more personally in the process of learning introductory physics. According to the TEAL proposal, students will share laptops in groups of three, with nine students at each of about a dozen round tables in one classroom. A professor will be present for instruction and for help with lab experiments.

Belcher feels that the biggest difficulty in getting the project off the ground was the relative lack of space. He said that Professor Marc A. Kastner, head of the Physics Department, had mentioned that space, not money, was the major concern. With the space, Belcher said that he would have many white boards and four or five screens for projecting the work of students. He said that what he was most looking forward to was “the interaction between students and faculty.”

He also said that he has been working with Professor Peter Dourmashkin, Vice President and Dean For Research J. David Litster, and ten UROP students to put together sets of desktop experiments and discussion questions. He also said that the Center for Education and Computing Initiatives is compiling animations and simulations for the class. “A whole host of people are working on software,” he said.

TEAL is funded by the d’Arbeloff Initiative, the MIT/Microsoft I-Campus Alliance, the National Science Foundation, and other sources.

For more information, call 1-800-ME-SHARE.

BE LESS PRODUCTIVE AT THE OFFICE.

Set up a recycling bin for aluminum cans and one for bottles. And when you’re in the bathroom brushing your teeth or washing your face, don’t flush it.

Drink out of the tap. Remember, if we need all the resources start being wasted. How much is being wasted in the trash cans? We bet it’s a lot.

Which would you rather do a job well done. FOR MORE INFORMATION AND TIPS CALL 1-800-ME-SHARE.

This space donated by The Tech
So my mom called to see if I was going to classes...

I told her I was going religiously.

I take it you failed to mention that you're an atheist now.

The crass rat

What am I doing here?

What am I doing here?

What am I doing here?

What was that for?

I don't like getting out with stupid, depressed grad students.

I'm over it.

Institute Madness!

I went out with Alex on Valentine's Day at the "Top of the Hub!" What did you do?

Oh, well me and my date didn't do much on Valentine's Day...

But the morning after... whoa!!

The sales the next day were great! Me and my credit card. What more could you ask for?!!

Alison Wong
Got a News Tip?
Call the Tech News Hotline.
253-1541
"Two-year-old Atheros Communications of Sunnyvale, CA is gearing up to turn the wireless local area network community on its head... The company’s impending release of a low cost chipset for 5-GHz WLAN's is expected to significantly lower the cost structure of high-speed WLAN equipment and make the technology ubiquitous for office and home users around the world."

-- Jarad Carleton, Research Analyst, Information Technologies, Frost & Sullivan

Info session:
In 4-149 at 6:00 PM on Monday, February 19, 2001
A light meal will be provided.

Interviews:
At MIT career office (12-170) on Tuesday, February 20, 2001

Hubert recalls first inventions proudly

Lemelson, from Page 1

"Memory today can be quite expensive. We should look for ways to perhaps develop something better than the more expensive silicon water-based chip," Hubert notes.

Hubert became inventor in his youth

When asked what disappointments he has faced in the past, Hubert recalled a device that he thought up at a young age. The now-defunct invention idea involved placing a machine at the bottom of the ocean to convert the water pressure into electrical energy.

Hubert also invented a superconductor fabrication system, which was designed to boost the efficiency of nanofabricating superconductor wires while lowering the cost required in building such wires.

Hubert already holds two patents—one for the plastic memory chip, and another for the superconductor fabrication system.

In 2000, Hubert was honored as a Lemelson-MIT Program winner in recognition of his lifetime contributions to science, technology, and entrepreneurship.

The $30,000 in prize money will go towards the formation of a commercial venture dedicated to exploring how to fabricate things at nanoscale resolutions.

Hubert, meanwhile, plans to wrap up his nano-assembly project and to look at the possibility of converting the device into something that can build a vertically-oriented 3-D object, possibly realizing the dream of nanorobotics.

Award created in 1994

In 1994, MIT alumnus Eugene A. Lemelson and his wife Dorothy established the Lemelson-MIT awards program. The purpose of the awards is to recognize and reward outstanding inventors and innovators within the MIT student body in the hope of encouraging more young people to pursue careers in science, engineering, technology, and entrepreneurship.

The judging panel responsible for selecting the winner consists of MIT alumni including successful scientists, technologists, and entrepreneurs.

Lemelson-MIT Program winners have continued to make significant contributions in their fields of study.

Last year’s Student Prize winner was Amy B. Smith, whose inventions include a laboratory incubator that runs without electricity and a hammer mill to grind grain into flour, both devices intended to improve the way of life in Third World countries.

Smith has spent the past year doing research in Nepal, and has worked to develop water quality treatment and testing kits for developing countries.

Hubert also skilled pianist

Hubert is not only an accomplished inventor but also a gifted pianist, having composed and performed more than 22 original works. Apart from his musical talent, Hubert is also skilled in the area of architectural design and modeling.

Also present at the Thursday ceremony was Hubert’s father, who spoke of his son’s "tremendous powers of concentration." This skill may be best illustrated by a childhood holiday music recital. Only eight years old at the time, Hubert was playing a piano version of "O Holy Night" when a girl behind him knocked over her xylophone, creating a loud disturbance.

"Brian kept playing," Mr. Hubert said. "He never missed a note."
Pacific Rim Nations Tighten Patent Laws

Biotechnology, from Page 1

has led U.S. companies to be wary of introducing products there. Wang said that U.S. and European car manufacturers, for example, only distribute older models in China.

Pressure to tighten property laws

In response to the cautious attitudes of some Western firms, some countries in the region have begun to enforce intellectual property laws. China now recognizes patents granted after 1993, and the other countries have also begun to acknowledge U.S. patents. Singapore, which respects intellectual property rights, manufactures drugs for Merck, Glaxo, and Schering.

"A real strength in Singapore is the strength of the government. The structure is such that companies trust it," said Wang.

China, however, has significant problems other than patent enforcement. Manufacturing processes in China are not up to the standards enforced by the rest of the world, as many of the plants were built with technology derived from the Soviet Union.

However, Wang said that "China has great potential in terms of size." China's government has pledged to invest billions of dollars over the next few years towards the development of new drugs and testing the efficacy of traditional therapies.

He also noted that many U.S.-trained scientists and engineers have been returning to China. "Ten or fifteen years ago, very few people went back to China. We're seeing much more of that today," said Wang.

According to Wang, these Pacific countries hope to shift their industry towards biotechnology in the next few years. As the manufacturing of traditional textiles and products is moving away from several Pacific Rim nations in search of lower costs, biotechnology research and development could fill in the economic gaps.

An Introduction to MD-PhD Training

MIT
Room 4-270

Thursday, February 22, 2001
12:00 PM

Olaf S. Andersen, MD
Professor of Physiology and Biophysics
and Biochemistry and Structural Biology
Program Director
Weill Cornell/Rockefeller/Sloan-Kettering
Tri-Institutional MD-PhD Program

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Chinese Students Club
New Year's Banquet
February 17, 2001
Walker Memorial 6pm
$12/$16 members/non-members

*Delicious 8-Course Dinner
*Lion Dance
*Traditional Dance
*Fashion Show
*Games and Raffle for Cool Prizes
*and much much more!

MIT
Tickets available in Lobby 10 - Questions: csc@mit.edu
Peter G. Madden & friends tore up the slopes at Smuggler's Notch during the Graduate Student Council's annual ski trip. A record 276 people joined in for a weekend of skiing, eating, karaoke, and condo-hopping.

**MIT Department of Facilities**

**CAMPUS CONSTRUCTION UPDATE**

**SPORTS & FITNESS CENTER**

Pile installation and the pouring of concrete foundations during the next few weeks will cause noise and disruption to the surrounding area. The excavation of soil continues causing a great deal of truck traffic in and near the Kresge parking lot.

**70 PACIFIC STREET** (GRADUATE HOUSING)

Construction activity including the installation of sheeting and removal of land fill may cause noise, dust and disruption to vehicular and pedestrian traffic.

**DREYFUS CHEMISTRY BUILDING**

Interior demolition may cause dust, noise and vibration to the surrounding area.

**STATACENTER**

Installation of the first of nine sections for the foundation has begun. Intermittent odors may continue during the marsh later is removed. Anyone wishing some temporary relief from the odor may obtain a freshener from the MIT Stata Center project trailer located near the pool entrance between Buildings 56 and 16.

**MASSACHUSETTS AVENUE**

The MBTA Bus Stop located across from 77 Mass. Ave. has been relocated to the corner of Mass. Ave. and Memorial Drive. Snow fencing also has been put up for pedestrian safety.

**ALBANY STREET GARAGE**

The shuttle service to parking facilities along Albany Street will continue until mid February while the walkway between Buildings 42 and 44 at the railroad crossing remains closed. Commuters seeking a shuttle after 6:00 PM may use the Institute’s Safe Ride van.

This information provided by the MIT Department of Facilities:
web.mit.edu/facilities/www/construction/

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Protesters voiced their concerns about MIT animal testing at a march last April.

Inspections Ensure Humane Treatment

Animal Testing, from Page 1

"If you look back 150 years, it hasn't always been that way," said Ritvo.

Much of the CAC-approved research which is performed at MIT is medical in nature. Some examples of ongoing projects are clinical cancer research, nerve regeneration studies, and cardiac tissue studies.

"The committee doesn't make judgments on science, per se, but on the treatment of the animals and if the number of animals were appropriate," said Ritvo.

After a proposal is passed by the CAC, the researchers must take a course on handling animals before they are allowed to do research. If any specialized procedures are to be performed, the researchers are instructed by trained veterinarians.

"We do not allow painful procedures on animals without medication for the pain or anesthetizing the animals," said O'Pray. "We do not allow death as an endpoint to any experiment. If an animal is not doing well, it has to be euthanized."

Although research is performed on a variety of animal species, the majority of all animal research at MIT is performed on rodents such as mice and rats.

"We get inspections from the federal government, the state of Massachusetts, and the city of Cambridge," said O'Pray.

The animals are monitored by both the technicians who take care of them, and by veterinarians, who see to their health. If any violations in animal care or research are found, the research stops until the CAC can fully investigate.

If a major violation is found, the CAC must report this violation to the Office of Laboratory Animal Welfare. "We [the CAC] have been approved at the exemplary level, which is the highest level of accreditation given by the Association for Assessment and Accreditation of Laboratory Animal Care. We also received grants to make two videos sold worldwide on general animal care and anesthesia," said O'Pray.

There are many animal rights organizations that oppose animal research, but opposition can come on a number of different levels.

"There are a number of viewpoints represented in our group on the use of animals in science, and many people are against animal experimentation outright," said Laura C. Dilley, president of the Students for the Ethical Treatment of Animals (SETA) at MIT.

This organization focuses on issues involving ethical issues involved in human-animal interactions, including animal experimentation and tries to promote alternatives to animal experimentation whenever possible.

"Our group tries to focus on issues where animal abuse is widespread, such as the food animal and fur industries," said Dilley. "Lab animals constitute only about one hundredth of one percent of the animals killed in the U.S. every year, so animal experimentation has not been a major focus of our group's efforts."

Anyone with information about inadequate animal care or treatment should contact the CAC at 253-0416 or call Vice President and Dean of Research J. David Listor at 253-6693. More information on the CAC and animal testing at MIT can be found at "[http://mit.edu/compmed](http://mit.edu/compmed)/".

http://lsc.mit.edu/
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ZETARI

zetari, an internet infrastructure start-up company located in the Boston area, is holding an informational session about exciting career opportunities in hardware and software engineering on Tuesday February 20, 2001 at 6:00 PM in Room 4-145. Gary Rucinski, Co-Founder and VP of Engineering, will be discussing career opportunities in the emerging internet infrastructure market. Free pizza provided.

Zetari will also be holding on-campus interviews on Wednesday February 28, 2001. Interested candidates should register through career services.

www.zetari.com
Women to Face Division I Schools

Women's Gymnastics, from Page 24

continued the addition of senior Karla E. Maguire '01 to their vault line-up. The second competitor for MIT rewarded with a new school record to their vault line-up. The second competitor for MIT awarded with a new school record of 9.65, breaking even her own mark of 9.62, set two years earlier. When all was said and done the Catamounts totalled 46.45 on floor to MIT's 45.45 on beam. UVM made up a full point on the last event, but it was not enough, and MIT cele-

brate its first win ever over the Catamounts, 174.825 to 174.65.

The day belonged to MIT. The Engineers would greatly appreciate a loss by both Springfield and Wellesley. These two unlikely girls, switched with an MIT win away over Clark on Saturday, will give the Engineers the number one seed in the postseason tournament. A loss would jeopardize a chance to host a tournament game, because MIT would be tied for a fourth seed. Most likely, if this happens, the tie will be broken by the next two weeks will be an endurance test for the MIT team. The team must learn new skills and con-

tribute the maturity to cope with their next opponent. They will face the University of Pennsylvania at MIT on Monday.

Crossword Solution

MIT

Ends his athletic career. Earlier, Taaske had entertained his teammates with his new "dynam-ic cross," in which he performed the famous iron cross as quickly as he could. Unfortunately the skill earned no points for the team.

Next Saturday, February 24, at 2 p.m. in Du Pont, MIT will clash with UVM for the last time. Co-Captain Luke Massery, '02 is with UVM for the last time. Co-


tors are welcome." This meet will take place on the floor for an .35. With the addition of senior Darla Bitte for an .9, the same tune, landed her dismount and was forced to compete with only one floor exerciser. Vermont was now braked its first win ever over the Engineers with three competitors to go. The day belonged to MIT. The Engineers would greatly appreciate a loss by both Springfield and Wellesley. These two unlikely girls, switched with an MIT win away over Clark on Saturday, will give the Engineers the number one seed in the postseason tournament. A loss would jeopardize a chance to host a tournament game, because MIT would be tied for a fourth seed. Most likely, if this happens, the tie will be broken by the next two weeks will be an endurance test for the MIT team. The team must learn new skills and con-

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tribute the maturity to cope with their next opponent. They will face the University of Pennsylvania at MIT on Monday.
Women's Team Impressive on Senior Night, in Postseason Hunt

By Eric J. Clark

The Engineers showed the Wheaton Lyons no love on the eve of St. Valentine’s Day, winning by the score of 72-53.

The game featured a tribute to the senior captains of the women’s basketball team, as Cristina Estrada ’03 and Eboney Smith ’01 received two standing ovations.

The game started with Wheaton giving the hosts all that they could handle. In the first seven minutes, the lead changed four times and no team held more than a five-point advantage. Trouble, in the form of Wheaton’s Amanda Dow-Alvin, popped up as Dow-Alvin hit three consecutive three-pointers in a two-minute span. Estrada’s free throws were the only thing that broke the Lyons’ momentum. The Lyons’ senior captains were determined not to be upstaged by the host seniors, as Allegrone produced the majority of her assists in the first half. All of Campbell’s rebounds came on the defensive end, limiting the second-chance opportunities for MIT. The Lyons’ offense, on the other hand, never seemed to connect and they committed too many fouls.

MIT shot 11 free throws in the first 20 minutes, missing only one. In fact, MIT’s 10 baskets from the line equaled the number of their field goals made in the half. MIT had tallied 30 points at halftime.

In the second half, MIT stopped being hospitable. Needing the win to stay in contention for the league title, MIT quickly pulled away from Wheaton in the second half on the strength of a 22-5 run. Several Engineers turned in big efforts during the run. Smith, Crista Russell ’03, and Megan C. Daugherty ’03 combined to knock down the Lyons’ three leading scorers. Wheaton’s three leaders scored only 12 of their 34 points in the second half.

Defense was stellar. Estrada made seven blocks, the entire team ripped 18 steals from the hands of the Lyons, and MIT out-rebounded Wheaton 45 to 35. The Lyons did more than out-rebound their opponents—they outplayed them. At one point during the second half, Wheaton had a rare offensive rebound, only to have it tied up for a jump-ball by Smith, who is ten inches shorter than her opponent. The home team continued to play aggressively, swiping rebounds away from their guests.

The bench played forcefully with Maria E. Hidalgo ’03, Kathleen L. Dobson ’03, and Dwan C. Riddick ’03 each logging ten minutes or more of playing time. They fueled the attack that forced Wheaton to commit 21 turnovers.

Hidalgo and Dobson were each 2-for-2 from the free-throw line, and did their part for MIT’s overall 14-17 free-throw shooting performance. Amy W. Mok ’02 came through with a nice assist during the 22-5 run. As the run came to a close, the defense frustrated the Wheaton bench so much that the Lyons’ coach inappropriately criticized a non-call and received a technical foul.

Estrada, Smith have excellent game

Estrada gave a superior effort at both ends of the court. On the defensive end, she would make a block. Then, on the offensive side, she would make jumpers with all the shot clock winding down. Coach Melissa Hart decided to leave her in until the penalty possession of the game, long after a win was secured, because of her performance. The final line shows that this was the best game of her career: 10 points, 14 rebounds, 7 blocks, 4 assists and 2 steals.

Smith also played well on Senior Night. Although she finished with eight points, her contribution was displayed through her trademark enthusiastic, hard-working play, forcing the jump ball with a Wheaton opponent nearly one foot taller than her. Smith was credited with three steals on the night.

When she wasn’t tracking down unsuspecting ballhandlers, she played aggressively in front of them.

Crystal A. Russell ’03 (40) and Cristina Estrada ’01 (33) go up for an offensive rebound on Tuesday, defeted Wheaton, 72-53.

**Nordic Finishes Second**

At Meet Hosted by MIT

MIT Skiers Come Closer to Defeating Clarkson University, Will Try for First Place This Weekend

By Chris Testa

Battling adversities, the Nordic ski team once again came in second last weekend and a second in Prospect, Vermont.

Even with almost half of the team sick, they managed to come closer than ever this year to upsetting Clarkson University, the league’s favorite team.

Arriving in Vermont to 50-degree temperatures and rain, the team soon encountered windy weather, and temperatures dropped below freezing for the 9 a.m. fact on Saturday. However, the wet and icy 15-km course proved no diffi-

culty for the hardy MIT men’s team.

The men captured third, fifth and seventh places with Samuel T. Coates ’03, Derek G. Southwell ’01, and Timothy G. Garnett ’02.

The women captured third, fifth and seventh places with Elisa M. Hidalgo ’03, and received a technical fou1.

Hidalgo and Dobson were each 2-for-2 from the free-throw line, and did their part for MIT’s overall 14-17 free-throw shooting performance. Amy W. Mok ’02 came through with a nice assist during the 22-5 run. As the run came to a close, the defense frustrated the Wheaton bench so much that the Lyons’ coach inappropriately criticized a non-call and received a technical foul.

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**Gymnastics Teams Overtake UVM**

Lady Engineers Beat Vermont for First Time

By Eduardo Ovalle

After posting their lowest score of the season, and still having to work through injuries and the flu season, the Lady Engineers headed north to Burlington, Vermont, to take on a double-dual alongside the men’s team against the Division I University of Vermont Catamounts.

If the women could beat the Catamounts — three seniors, four sophomores — MIT had a shot at an unprecedented double win.

In an effort to stop things up a bit, MIT compensated for its first event (bars) in reverse order, by starting the second event, the floor bar performer. Co-captain Song J. Ellefson ‘01 led off the meet, and, though tired, landed her double-bar flyaway for a season-high score of 9.55.

Up next was Carrie Gaceau ’03, who had not been able to practice her own double-bar flyaway during because of a heel bruise. Gaceau missed her mount but got back up on the bars and landed a perfect dismount, netting a personal season high of 3.5. The rest of the bar line-up hit clean routines, which helped the team post a season-high bar total of 40.2.

The key performer was Tanya I. Burka ‘03, who had been bothered by a bad back and was supposed to sit out. An injury to Amy M. Shui ’02’s hand prompted Burka to jump in at the last minute to take Shui’s spot. Without Burka’s bar score, the bar total would have only been 39.6.

While MIT finished up bars, UVM had posted a 42.8 for the early lead after one rotation. The teams flip-flopped events and the Engineers wel-