By Frank Dabek

A pilot program to place graduate student tutors in independent living groups is proceeding, but questions are already being raised about who will fund the Institute’s mandate requiring all ILGs to have tutors by 1999.

The office of Residence and Campus Activities has been allocated enough money to reimburse six houses for tutor expenses this year, said Neil H. Dorow, assistant dean and advisor to fraternities, sororities, and independent living groups, but additional funding for the pilot program and funding beyond this year is uncertain.

Dorow said that “a good number of [ILGs] have expressed interest in participating in the pilot program.” However, he said that “we have tentative approval for six participants” to receive funding. According to Dorow, RCA will “reimburse each of the living groups for the cost of one house bill.” The tutors “would be provided room and board [by] the house in return for the house bill.” The limited nature of funding for the pilot program could leave some houses paying the cost of participating in the experimental program. “If more than six houses express a sincere interest I hope that we can work something out,” Dorow said. Given the uncertainty of finding funding, however, Dorow said that “maybe some of them wouldn’t get reimbursement.”

Funding for the program beyond this first year is uncertain as well. “One consideration is applying this reimbursement across the board,” said Dorow. It is not certain whether such funding will be available, he said.

Regardless of how much funding is available, Dorow said that the “reality is that in 1999 every house is expected to have a residential advisor with or without the money.”

Participants hope for funding

For houses hoping to participate in the pilot program, the loss of a house bill is a serious concern. Tau Epsilon Phi Chancellor Farhad A. Ebrahim ’90 said that TEP had someone in mind to act as a GRT and was expecting to be compensated for the house bill of its tutor if it chooses to participate in the pilot program. Ebrahim called the possibility that funding would not be available “less than ideal” and said that “if they’re going to impose something on us, it’s at least nice that they should pay for it.”

He called the program “an inevitability,” however, and said that the house was participating in the hope of “doing our best to work something out.” Dorow said that “a good number of [ILGs] have expressed interest in participating in the pilot program.”

The limited nature of funding for the pilot program could leave some houses paying the cost of participating in the experimental program. “If more than six houses express a sincere interest I hope that we can work something out,” Dorow said. Given the uncertainty of finding funding, however, Dorow said that “maybe some of them wouldn’t get reimbursement.”

By Zareena Hussain

A report released last week criticizing research universities for neglecting undergraduate education has produced a vigorous debate within the academic community as administrators and faculty members try to determine the validity of the report and weigh its recommendations.

The report, entitled “Reinventing Undergraduate Education: A Blueprint for America’s Research Universities” was funded by a grant from the Carnegie Foundation for the Advancement of Teaching and was written by the Boyer Commission on Educating Undergraduates in the Research University. The report has produced a vigorous debate within the academic community as administrators and faculty members try to determine the validity of the report and weigh its recommendations.

The report asserts that “research universities have too often failed, and continue to fail, their undergraduate populations.”

“Recruitment materials display proudly the world-famous professors, the splendid facilities and the ground-breaking research that goes on within them, but thousands of students graduate without ever seeing the world-famous professors or tasting genuine research.”

The report also made ten recommendations to change undergraduate education. These included emphasizing research-based learning, changing the structure of the freshman year, making the freshman year a basis for future education, linking communication skills and coursework, using information technology in teaching, culminating the undergraduate experience with a ‘capstone’ experience such as senior thesis or research, improving training of graduate teaching assistants, changing the faculty reward system, and cultivating a sense of community.

“I think that the issues raised in the Carnegie report are the right issues to be focusing on,” said Associate Professor of Political Science...
Israel Celebrates Its First 50 Years of Statehood

With a nod to its biblical charter, Israel marked 50 years of modern independence Thursday with a four-hour ceremony on the Mount of Olives overlooking Jerusalem. The anniversary of the founding of the Jewish state was marked with ceremonies at the Western Wall, the holiest site in Judaism, and from thousands of barbecues, and the melancholy notes of the Hatikvah national anthem.

"All the way with the heart of the Jewish people. We have united this city, never to be divided again," declared Israeli Prime Minister Benjamin Netanyahu, speaking at the Hollywood-style-styley ceremony in front of the Western Wall.

Quoting from Hatikvah, which means "the hope," Netanyahu said "This nation has returned to its ancestral homeland, where it was denied the right to build a home in centuries."

The event on the Mount of Olives began with a brief "bar mitzvah" celebration, with a boy raising a Torah scroll and reciting the first words of the Hebrew Bible.

The ceremony included a performance by the Knesset women's choir singing Hatikvah, and a musical tribute to the Yom Kippur War of 1973.

Tensions between Israelis and Palestinians also were on display, with the Palestinian Authority calling for a "day of mourning" and a "general strike" to mark the anniversary.

Israel said it would not allow the protests to disrupt the ceremony, but the PA said it would not recognize the state and would continue to call it a "day of humiliation."
China Maintains Its Hard Line Stance Prior To Clinton's Visit

By Jim Mann

WASHINGTON

China took a hard line Thursday in intense negotiations over President Clinton's upcoming trip here, turning aside requests by Secretary of State Madeleine Albright to make concessions timed to the presidential visit.

Albright, joined by a host of other U.S. officials, appealed for changes in China's policies on issues such as Tibet, human rights, trade and weapons proliferation. But after two days of meetings, she and her aides could point to little or no progress in these areas:

Instead, the Chinese adopted uncompromising positions, often returning to old words and formula.

On Tibet, for example, Chinese Foreign Ministry spokesman Tang Guoqiang unleashed a long denunciation of the Dalai Lama, the Tibetan spiritual leader. The Clinton administration is urging China to begin talks with the Dalai Lama, who fled from his homeland four decades ago. Instead, Tang said Thursday that the Dalai Lama should "stay up the situation (and) forego his illusions."

Rather than easing their policies, Chinese officials told the administration to give ground by lifting all remaining sanctions imposed on China after the bloody crackdown on protests in Tiananmen Square nine years ago. Tang said that the Chinese government was right to call in the army and end those 1989 demonstrations.

Clinton's trip to China, scheduled in late June, will be the first presidential visit since 1989. Albright and other U.S. officials came here now to see what agreements can be reached in time for Clinton's trip. There is still more than a month left before Clinton embarks for China and officials traveling with Albright repeated that negotiations on subjects such as arms control and human rights continue.

But while China may be unwilling to budge on any negotiations, some experts believe that the Clinton administration is willing to make some concessions.

But some experts believe that no significant or far-reaching agreements will result from the diplomatic visit.

Nation's Economy in Near-Ideal State, Growing Without Inflation

By John M. Berry

WASHINGTON

Two government reports issued Thursday showed the U.S. economy growing in a near-ideal state, with continued strong growth but no upward pressure on the nation's extremely low inflation rates.

The reports triggered sharp rallies in both the stock and bond markets, as analysts concluded the good news on inflation means the Federal Reserve is unlikely to raise interest rates in coming months.

The Dow Jones Industrial Average rose 111.85 points, or 1.2 percent, to close at 9633.37. With that rise, stocks have virtually recovered from a tumble Monday caused by fears that the Fed might be on the verge of boosting rates.

In one report, the Commerce Department's Bureau of Economic Analysis said that in the first three months of 1998 the economy grew at a 4.2 percent annual rate after adjustment for inflation, the fastest rate in three months that ended March 31. That was lower than the 1 percent rate in the fourth quarter of last year, and considerably lower than many analysts had expected.

At a news conference, President Clinton hailed the reports as fresh evidence that his policies are working to foster the healthiest economic expansion in more than a quarter century, and he declared: "We are living in an American economic renaissance in which opportunity is abundant."

But the remarkable continued economic growth, the prices of goods and services bought by Americans didn't go up at all, according to the report.

Separately, the Bureau of Labor Statistics said its employment cost index, which tracks employers' costs for both wages and salaries and benefits, rose 0.7 percent for the three months that ended March 31. That was lower than the 1 percent rise in the fourth quarter of last year, and considerably lower than many analysts had expected.

But the remarkable continued tress in consumer spending and business investment.

Despite the robust growth, the prices of goods and services bought by Americans didn't go up at all, according to the report.

The owners of the "Jerry Springer Show," which in the past few months has become the nation's top-rated syndicated talk show at the same time it has been embroiled in controversy over the brawls among its panelists, announced Thursday it will eliminate all physical violence from the series.

"We are getting out of the fighting business," Greg Meidel, chairman and chief executive officer of Studios USA, which produces and distributes the show, told the Los Angeles Times. "This show will not be a boxing match."

The decision marks a complete reversal from the unapologetic stance Springer and the show's producers had only a few months ago about the show's content.
The recent decision by the administration to move a number of undergraduates to Tang Hall shows limited foresight and demonstrates a disturbing change in policy. This move highlights two critical issues regarding the nature of the housing system and again brings into question the status of graduate students in the administration’s housing philosophy.

Members of the graduate community, including representatives of the Graduate Student Council, have raised serious objections to the proposal that undergraduates be housed in Tang. Graduate students should be consulted in decision-making which will affect their options for on-campus housing. The fact that no substantive issue on this policy seems to have occurred and that the administration is not willing to include students in the decision-making process on housing, an attitude The Tech has condemned in the past, and does again here.

As a consolation to graduate students, the administration has offered to provide subsidies for apartments in Wollman Plaza. While the subsidized rents are well beyond the range of graduate students, however, the move will do little to relieve the problem. If subsides can bring down rents to par with other graduate student options, the administration should consider the added expense of furniture remains a consideration. However, even if equivalent housing is found, the Tang decision still sends the message that the needs of undergraduate students are not being met.

Under threat of fines for alcohol violations, my friends and I, both 20 years of age, would rather gruffly go to finish our beers in an upstairs bedroom, preferably with the door shut. MIT’s new drinking policy is a complete travesty. There is no need for a sober adult and his friend to be harassed by the Campus Police because they are consuming a single beer. It has made people afraid to get medical help for fear of being placed in a situation where they have to resort to illicit and devious methods to get alcohol. It is an affront to the intelligence of the MIT population, and an unfair advantage of the rights of legal-aged students. It seems to me that as far as MIT’s policy on drinking is concerned, they are consuming the dormitories, the hypocrisy of the message is clear: drink all you want, but make sure it’s in a place where MIT is not as legally liable.

Iyad Chehab

MIT’s Alcohol Policy

Myopic, Unfair

In the last year, the policy on alcohol has changed dramatically in response to the anti-drink movement. The Institute would like to use this opportunity to clarify the actions that went into the decision to move a number of undergraduates to Tang. Two months ago, after the incident involving the New York student who succumbed to alcohol poisoning, the administration has stepped up its efforts to crack down on off-campus drinking activity. This campus is not an isolated microcosm, but a part of the larger drinking culture that affects the entire country. If the administration is to continue to support the anti-drink movement, it will have to find a way to deal with the problem in a consistent manner without compromising the security of the campus.

Darin W. Unger

Opinion Policy

Editorials are the official opinion of The Tech. The Tech reserves the right to edit or condense letters; letters will be given higher priority once printed. The Tech reserves the right to refuse to run any increased security measures MIT is taking to that end. I welcome the card readers and any increased security measures MIT is taking to that end. I welcome the card readers and any increased security measures MIT is taking to that end. I welcome the card readers and any increased security measures MIT is taking to that end. I welcome the card readers and any increased security measures MIT is taking to that end. I welcome the card readers and any increased security measures MIT is taking to that end. I welcome the card readers and any increased security measures MIT is taking to that end. I welcome the card readers and any increased security measures MIT is taking to that end. I welcome the card readers and any increased security measures MIT is taking to that end. 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MEMORANDUM

May 1, 1998

TO: President Bill Clinton
FROM: A. Paul O. 1995
RE: MIT Commencement address

Dear Mr. President:

As an alumnus, I am very pleased that you have accepted the request that MIT extend to you an invitation to deliver the 2000 MIT Commencement address. I am writing to thank you for your acceptance of the invitation, and to assure you that the MIT Student Assembly wholeheartedly endorses your participation in the Commencement ceremonies.

As an alumnus, I am very pleased that you have accepted the request that MIT extend to you an invitation to deliver the 2000 MIT Commencement address. I am writing to thank you for your acceptance of the invitation, and to assure you that the MIT Student Assembly wholeheartedly endorses your participation in the Commencement ceremonies.

Michael J. Ring
Rajnish A. Chitaley
**THE ARTS**

**THEATER REVIEW**

*Nomathemba is a delightful display of African hope*

By Bence Olevelczy

**Shubert Theater**

Nomathemba: A play about theater — but it is written with enough grace and conviction that it escapes the usual pitfalls of the self-referential theater that I usually curse about. It certainly helps that it was originally written in 1636 by Pierre Corneille (1606-84), and therefore works not only as a postmodern meditation on the nature of theater, but also as a classical comedy/drama.

The story is quite simple. A rich lawyer, Pridamant (Jeremy Butler '98), travels to the cave of a reclusive magician, Alcandre (Edward W. Kohler G), to buy information about his son who ran away many years ago. In response, Alcandre shows Pridamant three magical illusions — the life of his son.

Produced by MIT Dramashop and directed by Theatre Arts Professor Jatzen Sonenberg, The Illusion is a showcase for truly excellent acting, and this can't be over-stated. The play presents a certain problem, for the three illusions are all separate stories, although there are connections between them, and it takes an effort to get used to the jumps of the narrative. Both the framing story and the second illusion (the longest one, spanning about half of the total running time) are the best; the first illusion is somewhat less consistent, but more exciting in Rachel A. Butcher '98 as the scheming maid — there are scenes when it is spellbinding — with her emotional rollercoaster. Richard S. Thompson's '98 does three distinctly different roles in the romantic rally, and there's an excellent sword fight between Joseph's brother and founding member of the group, the power of theater. The story that grew out of the group's three-minute song, "Nomathemba," is inspired by the hopes and experiences of the group's leader, Joseph Shabalala. Shabalala was himself struggling in the township of Durban when he recruited members of his family for the vocal group. Their talents were soon discovered and the group gained a wide following both at home and abroad. But South African reality caught up with them in 1991, when Joseph's brother and founding member of the group was gunned down by an off-duty security guard. When asked what they would do after the slaying, Shabalala simply answered, "We will sing." This uncompromising dedication to build a future despite hardship and setbacks is strongly felt in the inspiring Nomathemba.

The production, first staged by Chicago's renowned Steppenwolf Theatre Company in 1993, is an eclectic mix of Ladysmith Black Mambazo's subdued singing, the carefree African dancing, and pure drama as enacted by the accomplished African actors. The visual framework for the story is provided by Loy Arcenas' expres- sorish stage design. Sibongiseni "Shabalala, with nothing but his boxer hort, is lighting the visual landscape from a woodcut-like depiction of the African countryside to a haunting and depressing urban ghetto.

Thanks to Eric Simonson's excellent direct- ing, the different elements and styles are blend- ed in an effortless and smooth mix that is a wor- thy vehicle for Joseph Shabalala's noble wishes for a new and hopeful South Africa. The Maid (Rachael Thompson) is a spirited and naive farm girl who leaves her slacker fiancee Bogani (Erica Lavonn) is a spirited and naive farm girl who leaves her slacker fiancee Bogani (Erica Lavonn) and during the audience's exit. This instru- mental, quoted from a certain twentieth-cen- tury musical (No, No, Nanette!), is jarringly inappropriate, and clashes with anything else in the production.

Leelal Demoz, Thulanl Shabalala, Thamsanqa Shabalala and Sibongiseni Shabalala in a scene from the production. (Photo by Leelal Demoz)
Les Misérables are the literal Paris underworld, its sewers, are these digressions work as wonderfully as the consists of digressions. For example, Hugo regret even more that you can't see the real you. Sure, you are still looking at something you're not even sure how much of the paint-through the mud, but all the colors are very greenplay by Rafael Yglesias STAFF REPORTER

By Vladimir Zelevinsky MOVIE REVIEW

Directed by Bill August

Screenplay by Rafael Yglesias

Based on the novel by Victor Hugo

Starring Liam Neeson, Geoffrey Rush, Uma Thurman, Claire Danes

I imagine that you are looking at a famous painting and think you know a masterpieces supreme in its detail, balance, color, and composition — and imagine you are looking at it through a layer of very dirty glass. You can still get the overall impression of the artwork, and a few details gleaned here and there through the mud, but all the colors are muted virtually to the point of fading together, the shapes have lost their bold outlines, most of the details have disappeared, and you're not even sure how much of the painting is actually preserved and invisible to you. Sure, you are still looking at something vaguely beautiful but this one's mostly regret even more that you can't see the real thing.

Victor Hugo's Les Miserables is the best novel ever written, bar none. It is a sprawling mass of 1,280 pages, which, to a large extent, consists of digressions. For example, Hugo spends 70 pages describing in minute detail the Battle of Waterloo, only mentioning a recurring character in the last paragraph. But these digressions work as wonderfully as the characters involved to plot. The chapters about criminal slang of the Paris underworld, or that detail the history and the inner workings of the literal Paris underworld, its sewers, are sewers, are sewers, are sewers.

Les Miserables are the ones in the audience

Highly exciting to read, and the story is the stuff that great adventures are made of. The novel has spawned many films, a musical (wildly successful financially and only mildly successful artistically), and now there's yet another movie. Watching it, I felt like I was staring through a window at a true scene. Or, at least, how's the novel is all about true scenes. However, let me pretend that I haven't read the novel — the novels are usually better than the movie versions, which, despite its almost total lack of action and three-hour running time, is still much more exciting than this work. August made an excellent family epic film Best Intentions back in 1991, which, despite its almost total lack of action and three-hour running time, is still much more exciting than this work. August's films most of this movie with bland static shots, and this gets very boring. October is almost black, which (there's only one crowd scene), and the cinematography limits the color to dirty shades of blue, dark green, brown, and black. This is very boring. The action is mostly bland static shots, and this gets very boring. The October is almost black, which (there's only one crowd scene), and the cinematography limits the color to dirty shades of blue, dark green, brown, and black. This is very boring. The action is mostly bland static shots, and this gets very boring.
## Popular Music

### Blues Traveler


### Parade Rock Club

June 24: Ani DiFranco. $25 pavilion, $22 lawn.

### Sculler's on the Square

June 14: The Moody Blues with Pretenders. $31 pavilion, $21 lawn.

### SummerStage

June 5: James Taylor. $36 lawn.

## Classical Music

### Boston Symphony Orchestra

Symphony Hall, Massachusetts Avenue. $38, 423-0800, Tuesday, Thursday, 8 p.m.; Friday, 8:30 p.m.; June 5-7; 10:30 a.m.-5 p.m. Admission $25-65.

## Exhibits

### Museum of Science

Science Park, Boston. 723-5000. Noon-9 p.m. Admission $7 for children 3-14 and seniors, $9 for students, free for children under 3. Through August 11. 2 p.m. Admission $7 for children 3-14 and seniors, $9 for students, free for children under 3. Through August 11.

## Computer Museum

101 Morris Street. 423-6758 or 423-3800. Tues.-Sun. 11 a.m.-5 p.m. Admission $7, $5 for students and seniors, free for children under 12. Through September 15. 2 p.m. Admission $7, $5 for students and seniors. Through August 15.

## Gay, Lesbian, and Bilingual Therapy

### Computer Museum

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May 1, 1998

**The ARTS**

**Swatch Museum**
57, FR 51, Cambridge, 864-1227. Monday through Saturday, 10 a.m.-6 p.m.; Sun., noon-5 p.m. Admission: $3, children, free with MIT ID.

**MIT Museum**
265 Massachusetts Ave., 353-4444. Tuesday through Friday, 10 a.m.-5 p.m.; Sat.-Sun., noon-5 p.m. Admission: $3, free with MIT ID.

**MIT Theater**
Dormath on the dome of an Age.**Gestural Engineering: nearly to America with the opening of Joyce Chen Restaurant. In 1958, Joyce Chen introduced authentic Chinese cuisine to America with the opening of Joyce Chen Restaurant in Cambridge. Until then exotic dishes such as moo shu pork, Peking ravioli and Peking duck had never been served in this country's restaurants.

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**Music. Theater. Movies. Events.**

**Go. Watch. Enjoy. Review.**

**Call The Tech at 253-1541, and ask for Joel.**

**MIT Film**
Lecture Series Committee
Two Males for Sister Sara (1969). May 1 at 7:30 p.m.

Great Expectations. May 2 at 7 p.m. in 26-100.

Jackie Brown. May 2 at 7 & 10 p.m. in 26-100. May 3 at 7:30 p.m. in 26-100.


**Events**

**The X-Files Expo**

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NEWTON AND HIS NEW FRIEND LYNNE...

HEY LYNNE, THANKS FOR FILLING IN FOR ME ON TUESDAY'S STRIP. NO PROBLEM! THAT'S WHAT FRIENDS ARE FOR!

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THIS IS SO CUMARAL.

Off Course
by Hugo

LEAVE IT TO YOU AND STEELHEAD, THE BROTHERS OF PRAWNOID, AND YOU HAVE JOINED UP WITH GO! BUT TO TAKE REVENGE FOR KIKI KILLING YOUR SISTER'S BUTT...

I HAVE BAD NEWS FOR YOU THEN.

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Perhaps...

By Jennifer DiMase

...it doesn't matter what you have to pay for....

ST... ROAST

By Jennifer DiMase

...this party still makes top ten...
The Tech

May 1, 1998

Noun Poetry

by Katy-Cat

bowling ball

red brick wall

oolong

Although your company is very profitable, I wouldn't be much of a consultant if I didn't recommend changes.

As a consultant, I'm overpaid even if I do bad work.

Whereas you're underpaid even if you do good work.

It's funny if you think about it.

You recommend jailing our ombudsman and declaring martial law... makes sense.

Alice, I checked with the other managers; they don't know you well enough to promote you.

So we've decided to hire someone from outside the company.

I might have a terrible job, but at least I don't have any job security.

Then could I shoot employees who make personal phone calls?

It's okay with me.

Although your company is very profitable, I wouldn't be much of a consultant if I didn't recommend changes.

As a consultant, I'm overpaid even if I do bad work.

Whereas you're underpaid even if you do good work.

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So we've decided to hire someone from outside the company.

I might have a terrible job, but at least I don't have any job security.

Then could I shoot employees who make personal phone calls?

It's okay with me.
Congratulations to Somak Chattopadhyay and Hoi Hong Wong who both knew that Rabindranath Tagore wrote the national anthems of both India ("Jana Gana Mana") and Bangladesh ("Our Golden Bengal"). Incidentally, the Bengali poet did not intend the songs to be anthems — they were both adopted after his death in 1941, in 1950 and 1971, respectively. Tagore had been awarded the Nobel Prize for Literature in 1913 for such works as "Gitanjali, Song Offerings."

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Friday 7 and 10 p.m., Sunday 7 p.m.
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Great Expectations
Saturday 7 and 10 p.m., Sunday 10 p.m.
in Room 26-100
Jackie Brown

This feature was brought to you by the CAC Program Board. Today’s factoids are by the MIT Quiz Bowl team. Members of the quiz bowl team, LSC, and The Tech are not eligible.

By Anthony R. Salas

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Class elections will be held at the Alumni Activities Expo in Lobby 10 on Tuesday, May 12th, 10am – 4pm.
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Ensuring the future for those who shape it.
Thurow, Dornbusch Use Wits in Economics Debate

By Neave Sunkavally
ASSOCIATE EDITOR

Armed with a compendium of facts and jokes, two of MIT's heavyweights squared off in a battle of wits and economic analysis on Tuesday night. Over 350 spectators showed up, filling the small, Colosseum-style room E51-345 to overflowing. The two, who fielded both prepared and extemporaneous questions, debated economic issues, ranging from the European Monetary Union, to growth and productivity, bank mergers, income inequities, the International Monetary Fund, and the future prospects of Japan, China, Germany, and Italy.

Productivity measures debated

The first question asked Dornbusch and Thurow to discuss why the United States has had such a low growth rate in the last twenty years despite having undergone a technological revolution.

Thurow said that the answer depended on which part of the United States you felt you were in. For the wealthiest 20% of the nation, technology played a significant role. Conversely, for the bottom 60 percent, Thurow said, the 1990’s have been the worst decades, and productivity growth, which is "the ultimate economic objective," has hovered at around only 0.8 percent.

"In my field, we don't feel it at all," Dornbusch responded. He adopted a more optimistic view and blamed Gross National Product accounting for not adequately representing the growth rate. Dornbusch said that the GDP does not measure services, especially the booming financial services sector, and that the government does not take into account the increase in flexibility afforded by these new technologies.

"It's not as clear as he's making it," Thurow argued, saying that services only account for a "little better than zero percent of growth."

He expressed distaste for the Boston correction method of arbitrarily adding a percentage point here and there to growth levels.

Betting on the euro

The European Monetary Union was also a point of contention for Dornbusch and Thurow. The EMU, as established by the Maastricht Treaty of 1991, is a collection of countries including most of Europe that will adopt a single currency, the euro, on January 1, 1999.

Both more or less agreed that Italy, which "has no credibility" according to Dornbusch, would emerge as the big winner in the EMU deal. But they differed strongly on how strongly the euro would be a year after January 1, 1999.

Thurow maintained that the euro would have a higher value for at least one year after its release. After a long debate and a bet on his position, Dornbusch pulled out a bill of the hammer and handed it to Thurow, who then handed it to the mediator.

"Europe cannot afford a handover," Dornbusch said. He pointed to the German elections as the key determinant of whether Europe would have a hard or soft euro. If the elections in 1990s Germany to break out of its mold, Thurow would win; if not, Dornbusch would win.

When the mediator tried to hand Dornbusch back his bill, Dornbusch refused. "You know he doesn't have confidence," Thurow said after eyeing the value of the bill. Thurow then put in $20.

Japanese economy criticized

Neither Dornbusch nor Thurow had kind words for Japan. "Japan is really screwed up," Dornbusch said. He said that Japan must work to resolve a financial crisis, a political crisis, a confidence crisis, and the problems caused by an "incompetent prime minister."

Thurow added his own criticisms of Japan to the debate. He said that there was a crisis in Japan's capitalistic system and that the nation needed to charge from an economy "based on debt" to one "based on equity." He said further that Japanese firms are earning a profit close to zero and that the second-largest economy is the middle of an eight-year "great stagnation."

Both were more optimistic about China's prospects. Dornbusch and Thurow said that the estimate of a 10 percent growth rate was most likely overvalued.

Thurow placed the growth rate around six percent, saying that exaggeration and a higher-than-expected inflation were probably the cause of the repeatedly reported 10 percent growth rate.

Dornbusch placed China's growth rate for the next two to four years.

Debate, Page 15

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Cambridge Audition: The best concert of the spring! The Boston correction method of arbitrary addition dpes not take into account the dramatic increase in flexibility afforded by these new technologies. At the MFA, May 2, 8:00 p.m., Cambridge. For more information call: 617-923-8510 or fax 617-923-8512.
Wage Cut Needed in Europe

European leaders face criticism

Thurow and Dornbusch had little sympathy for the high unemployment rates in Europe.

Thurow said that European countries should cut wages 25 percent. France's unemployment compensation is double minimum wage, he said. "The Netherlands is proud of an employment rate only slightly below European average. Most people my age work with pain—not no gain," Thurow said. Europeans need more initiative than simply, "Learn your Latin, eat your spinach," Dornbusch said.

"Right now, 'the government has to..."" Dornbusch said. "The government has to..."..."" Thurow responded, "'No. Next month, no.'"

Federal Reserve Board would cut.


"Blair isn't doing anything; he's just smiling," Thurow said. Dornbusch characterized Blair's political career as that of "unmitigated opportunism."

One student asked whether the Federal Reserve Board would cut interest rates, to which Dornbusch responded, "Yes. Next month, no." "[Alan] Greenspan is a series of grunts," Thurow said. "The more important you are, the less you say."

Report Questions Faculty Reward System

"I know it is true at Harvard that students do not interact with faculty," Rota said. "[Students] don't care. They just want to make friends in their halls."

But even at MIT, students must decide to reach out to their professors. If "in their choice, you can't force them," he said.

Report, from Page 1

Science Charles Stewart III. "My disagreement is that they are overly abrupt."

"[The report] tends to take an overly utopian view of what a research university can do," said professor of physics Thomas J. Greyuk '92.

"The key idea of the Boyer Commission is it points out many of the problems MIT has addressed but not completely fixed," said Lain A. Ortiz '92, a member of the task force on student life and learning. "There is a lot of work to be done."

Teaching not rewarded

One charge of the report was the lack of emphasis on teaching within a research university, best exemplified by the process of tenure decisions.

"There is no incentive for professors to teach," said Professor of Mathematics Gian-Carlo Rota.

"The problem is the reward structure," said Professor of Materials Science and Engineering Donald R. Sadoway. "The structure is to a large extent based upon accomplishments in research."

However, a complete shift to a reward system that stresses research over teaching, may not take students seriously may prevent students from seeking interaction with faculty, Chouinard said. "Do we reach all freshmen?"

"Probably not. But do all freshmen reach out?," Sadoway said. "The student has to work too, otherwise it fails."

Rota said that, compared to other research universities, MIT did fairly well in encouraging student-faculty interaction. "I know it is true at Harvard that students do not interact with faculty," Rota said. "[Students] don't care. They just want to make friends in their halls."

But even at MIT, students must decide to reach out to their professors. If "in their choice, you can't force them," he said.

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Linda Woolford <woolford@mit.edu> or Renee Caso <yammie@mit.edu>
By Aileen Tang

Due to an error, part of the interview with Germeshausen Professor of Chemical and Biomedical Engineering Robert S. Langer ScD '74 was omitted from the article on Langer which appeared in Tuesday's issue of The Tech. The missing sections of that interview are reprinted here.

Langer: Was your encounter with the recipients of the 500,000 Lemelson-MIT Prize for his research with polymers.

Tech: What are some of your interests outside of research, beyond the world of the laboratory?

Langer: In addition to being with my family, I exercise a lot. I lift weights. We also have a softball team at the lab. Other than running; I lift weights. We also have a softball team.

Tech: To be a scientist, I think, requires lots of qualities. Some people are just incredibly curious. I've seen chemists in my lab just marvel at the way a crystal forms. In my case, one of the things that's been very important to me is to see the work we do go some place and help people. I've always been a big believer in science for the good it can do, and we've gotten a lot of satisfaction out of seeing that happen. I write scientific papers, and some of that work is pretty basic, but I like to do it in the context where a real life problem may be solved or has the potential to be solved.

Tech: One of the goals of the Lemelson-MIT Prize is to inspire innovation in young Americans. Do you think inventiveness can be cultivated? How much of this quality is nature and how much of it is nurture?

Langer: That's a good question. I think probably it's some of both. People need to be born with a certain amount of curiosity and intelligence. But it's also very helpful for people to have good role models. I was lucky as a post doc to have a very good role model, my advisor Judah Folkman. He was very creative, and it was a great to see how he believed that anything was possible. In my own laboratory, I let people see examples of what I do. I have people running in the lab the idea of "can you patent this, can you patent that." When people see other people do it, it increases their confidence and the awareness of the way they think, and they are more likely to succeed.

Tech: How do we encourage young Americans to be innovative?

Langer: I think programs like the Lemelson-MIT program is very good in the sense that they give these awards and they have web sites where students can learn about positive role models. I learned a lot about them myself. I read that a couple of people who won these awards speak at programs in high schools. I think all of these kinds of things pro-vide positive publicity associated with invention and innovation.

Tech: How well does MIT's environment foster innovation, for example, with the UROP program?

Langer: As I mentioned before, good role models, which is one of the things that the UROP program provides, are very helpful. I think that MIT does a great job on every level and in general. I haven't done big how lately, but I've seen, from having been to different universities giving lectures. The UROP program is a terrific way for undergraduates to learn research, and it's one of the things that make MIT unique. I also think that MIT goes a couple of steps beyond just the environment. MIT has always had strong ties to industry. I'm just a member of the Technology Transfer Office and a Industrial Liaison program. So they really let the students and professors to a broader spectrum of things, which I think will encourage innovation very well.

Protecting innovation

Tech: As an inventor with 320 patents, do you believe that the current patent system provides adequate protection for inventions?

Langer: Interesting question. I think it's a reasonably good system, although ways of trying to get approvals more rapidly would be helpful, particularly in fields like medicine. As opposed to a household product patent, which you might be able to sell tomorrow, medical patents take a much longer time to develop into a product because it has to go through all the clinical trials. In certain areas like medicine, perhaps patents should be treated differently than say, technology patents. Maybe it would be good at least to consider ways to get extended life on the patent.

Tech: Products from life-critical research tend to be closely monitored by the FDA. How have your experiences been with the FDA?

Langer: My encounters with the FDA have been quite positive. I should say, not that it has anything to do with it, I'm also on the FDA Science Board which is the highest advisory board. What happens is we've done some of the more basic stuff in our laboratory and different companies license it. Those companies have good regulations people who deal directly with the FDA. What's happened though in general is that the FDA deals with the kinds of stuff we've been involved with as being more innovative. With things that are either more innovative or more life threatening, the FDA fast-tracks them. I think the FDA actually has been, in our case, pretty responsive.

Tech: There has been recent controversy over the use of pharmaceutical products such as Redux. Have you ever experienced similar problems with your work?

Langer: In the brain tumor case, the company that licensed the technology originally wanted to get a broader approval than what they ultimately got. The way the approvals work is often complicated. With many products, indications start out narrow and broaden later. A separate issue is how much the FDA will deal with the FDA but deals with the marketing of medical products. A

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Round I (Sloan students only)

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Opens 12:00 noon, Saturday, May 9

Closes 5:00 p.m., Thursday, May 14

Round II results will be posted on the bidding website in mid-August

The Campus Activities Complex will be accepting applications for Fall 1998 Promotional Space:

**Fall Semester:**

- Sept. 9, 1998 - Dec. 31, 1998

**Monday May 4th, 1998**

**beginning at**

9:00 AM

- Lobby 7 Drop Posters
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- Infinite Corridor Panels
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- Student Center Balcony Posters (For September Only)

Applications should be turned into the Campus Activities Complex, W20-500 on Monday, May 4th at 9:00 AM.
Campus Police Say Boston Logs Lacked Incidents in FSILGs

Police, from Page 1

known about, Glavin said. "In some cases, there was no [information] to be gathered!"

Glavin specifically noted a breaking and entering incident at Phig Bingham Kappa on January 3, 1996 and an assault and battery at Delta Tau Delta on March 26, 1995. "These are examples of incidents that were not reported in the log that Campus Police officers have at the District Four office."

Boston Police say logs are accurate

After reviewing Boston Police records, Phillips said that the two incidents in question were not in the police log that would have been available for the Campus Police to view at the Four office. "The 1995 and 1996 incidents are definitely there."

"An earlier incident in 1994 was unable to be verified because records from a manual logging system had been destroyed, Flynn added."

In addition, District Four staffers said that the Campus Police never contacted them before May 1996, Flynn said. The head of District 4 has "never heard of any problems concerning access to information," he added.

Glavin said that before May 1996, the Campus Police never formally requested information from the police since they were not traveling to collect the information themselves. "I stand by what my staff has been doing," Glavin said. She contends that the Boston logs are inaccurate.

Glavin added that the department has been working hard to meet the guidelines of the crime act since its inception. "It's obvious that we have been gathering information since 1992 on off-campus crime.

More important than the disputes over who is to blame for the inaccuracies in the annual reports before 1996 is the new relationship that the Boston Police and Campus Police have formed to guarantee that off-campus crime information will be accurate in the future, Glavin said. "We have worked to get a better system."

Tutors, from Page 1

administration as a way to satisfy the tutor requirement, but Phillips said that the house would probably hire another individual to fill the role. She said that paying the cost of the tutor "would be a problem because our budget is so tight."

While noting these concerns Dorow said that in some cases finding space for a GRT is "not a real challenge," especially for groups who live in campus rooms. Dorow noted, however, that the ILGs could be subject to the loss of revenue corresponding to an additional house bill if they place tutors in doubles.

System changes need to fix ILGs

The stipend provided to GRTs in the dormitory system may be used to partially cover the cost of meals for tutors. Dorow noted, however, that a stipend for GRTs are paid by RCA, said that the house bill and stipend for GRTs are paid by RCA to the housing and food services department.

Whether those funds come from general accounts or from dormitory house bills is less clear. Orrin-Johnson said that accounting practices make the funding "all part of the same pool of money." Funding ultimately comes from Provost Joel Moses, but Orrin-Johnson said that "there is more money that comes from the department that deals with the dormitories."

Langer: From Page 16

product may be only approved for something. For instance, a drug might only be approved for some purpose, but now that it's out there, certain clinicians might decide to prescribe it for indications other than for which it was approved. That makes it complicated, and sometimes there may be encouragement from the companies too. We haven't seen that much controversy on the things that I've been involved with directly. But certainly there are issues that have come up. For example, silicon breast implants is an area that was and still is, somewhat controversial.

Tech: You direct and teach a summer program at MIT called Advances in Controlled Release Technology. What do you try to achieve through the program?

Langer: All of the kinds of stuff we've just talked about. I had this idea in 1980 and this will be the 19th year that we've done it in the U.S., and we've also done it in Europe. It aims to take somebody and really teach them the field, so they know how one might take a drug or pesticide or any entity and be able to create a delivery system that could solve particular problems. So we teach them all kinds of principles of polymer science, like transport phenomena, regulatory issues with the FDA, and mathematical modeling so you can predict what you've done.

Tech: What are your thoughts about basic research versus applied research?

Langer: Basic research is very important, but ultimately you need both. Basic research enables discovery to be made that can have very broad impact. Applied research is important so you can take those discoveries and use them for different things. Like I said earlier, ideas you initially come up with could ultimately be used in areas other than you had anticipated. In fact, the initial research we had with polymers actually had to do with studying how blood vessels work. I was trying to develop an essay for that, which was quite basic work.

Education and innovation

Tech: How have your parents influenced your achievements in science?

Langer: When I was a little boy, my father always played math games with me. He also got me interested in science by giving me these chemistry sets and microscope sets. I think he was a very stimulating person to be with by example and by interactions like building the radio together. It was wonderful to be exposed to that as a young child.

Tech: What's your role as a parent in bringing up your own children?

Langer: I have three little kids myself. The roles we play as parents, in every way as a role model and interactions with the kids are as important to me. Sometimes I bring my kids here to the lab on the weekends, when the post docs and even myself do experiments. They get exposed to that at an early age and see that these things are possible. On the other hand, I also want them to have a well-rounded life. My eight-year-old is interested in soccer, so I certainly want to encourage that. My seven-year-old daughter likes gymnastics, and I encourage that also.

Tech: What are your goals for your kids?

Langer: I want them to be happy, and that's the goal that my mother and father had for me. They never pushed me that hard and they exposed me to different things. My number one goal for my kids is to just have happy, happy lives.
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**Men's Track Squad Outruns Springfield**

by Matthew Potts

In a head-to-head battle with archrival Springfield College this past Saturday, the Men's Track and Field Team handily defeated Springfield 94-49 on their own track. MIT entered the meet knowing that Springfield would not go down easily. In the rivalry that dates back over 14 years, Springfield has given it their all at their home meets and won nearly every one. However, this time their all just wasn’t enough.

Captain Ravi Sastry ’99 threw the first punch with a victory in the Long Jump. His jump of 23’ I” was MIT’s team of Sastry, Neal Strauss ’01, Todd Rosenfield ’00, and Anthony Pelosi ’01 followed in his wake as they would get. With a daunting cross wind, Thibault and Matt Potts ’99 took first and second in the 4x400 with laps of 1:33” and 129”.

Four top performers—Nichols, Won, and Evans—led MIT to a victory and their sixth win in eight events. Sastry and Karchem then ended the meet with a personal best of 43’ I” in the shot put and 6’0” in the High Jump with 6’0”. Sastry took an easy win in the 110m hurdles with a time of 15.50. Junior Ho ’01 took third in the event with 15.99, his second personal record of the day along with a 20’6” long jump.

MIT continued its dominance in the 400m where Rosenfield charged home the stretch to place first while Karchem held on for a third. In his third win of the day, Sastry won the 100m with a personal record time of 11.23, giving MIT their sixth win in eight events.

On the field, Kajak Kothari ’01 achieved personal records three times in the triple jump to earn a second with 44’2”. Despite a seasonal best of 43’ 1” in the shot put by Patrick Dancon ’89, Springfield narrowed MIT’s lead by swapping that event. Springfield followed with an upset win in the 800m that cut MIT’s lead to 25-49. However, in the 4x200, Ford and Sean Montgomery ’01 took second and third in the event to minimize the damage.

Unfortunately for Springfield, this was as close as they would get. With a daunting cross wind, Thibault and Matt Potts ’99 took first and second in the 4x400 with laps of 1:33” and 129”. Seed and Anthony Pelosi ’01 followed that with first and second place in the 400m Intermediate Hurdles, with Pelosi making up a six meter deficit in the final 40 meters to edge out his opponent by only 0.01” seconds. Sastry and Karchem brought home second and third place the 200m. Roger Nelson ’99 had personal record jump by 11 inches at 5’6”. The 4x400m Relay Team of Montgomery, Ford, Seed and Karchem then ended the meet by easily outrunning their opponents and improving the Engineers Division III season record to 5:51.

Next week the Engineers go up to Williams College to give every one of their final chances to qualify for the New England Division III Championships only two weeks away. However, with 17 automatic qualifiers already, MIT promises to be in strong contention for the title.

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**Women's Track Ends Season on High Note**

by Christiana Wilbert ’01

Women’s Track, from Page 20

qualify Nichols for Division III’s and ECAC’s, it also was the school record set by Won a week earlier.

Robin Evans ’99 also ran a spectacular race in the 800 meters. She placed fifth with a season best of 2:29.25. This qualified her for the Division III’s by a heartbreaking two one-hundredths of a second.

The Engineers finished the meet by placing first and third in the 4x800 and 4x400 meter relays.

Christina Wilbert ’01, followed by top performers Nichols, Won, and Evans led the team to a victory and school record time of 10:05.73 in the 4x800. Top 400 runners Chen, Stephanie Hong ’98, Smith, and Thovaldsen sped through the 4:400 in 4:20.74 against tough competition from Smith and Mt. Holyoke.

This Saturday, the Engineers will compete in the New England Division III Championships held at Connecticut College. Being represented in all but two events, this will be the strongest showing in the Engineers history.

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**M.I.T. Community Summer Softball 1998**

Organizational Meeting
New Team Entries Accepted

Wednesday 6 May

5:30pm

1-190

For more information, contact: Mark S. Throop, MITCSS Coordinator

MIT Rm. 50-222,

Messages: 978-734-3639,

508-877-9263(h)
Coach of the Week
Mary Ellen McLaughlin’s first year as the head coach of the men’s and women’s swim teams has been an eventful one. Now that the season is over, she not only has a new team but eight new school records as well.

McLaughlin came to MIT from Middlebury College in Vermont. There she improved Middlebury’s New England ranking from the mid-30s to a consistent top three ranking for both the men’s and women’s teams. She was elected New England Coach of the Year three times, in 1992, 1995, and 1996. She was also elected the NCAA Division III Women’s Coach of the Year in 1996. Her success at Middlebury has carried over to MIT teams this year, as the men’s New England ranking improved dramatically from 1997’s 13th place to sixth place this past season. Nearly every swimmer had multiple personal bests at New England’s this year.

However, the New England Championships were a little different in 1998. For the first time since she started her coaching career, McLaughlin missed a meet. Instead of spending the Friday evening session of the women’s meet on deck, she spent the evening in the hospital giving birth to her newborn baby boy.

The team appreciated the efforts she made to be involved this season. McLaughlin had to be included in the development of each individual swimmer as well.

UPCOMING HOME EVENTS
Saturday, May 2
Sailing — Reed Trophy, 9:30 a.m.
Baseball vs. Suffolk University, 12:00 p.m.
Men’s Lacrosse vs. Alumni, 1:00 p.m.
Men’s Tennis vs. Williams College, 1:00 p.m.

Sunday, May 3
Sailing — Reed Trophy, 9:30 a.m.

SPORTS
Women’s Track Ends Season With Strong Show at NEW-8

By Lisa French

The women’s track team ended their regular season with a strong third place finish at the New England Women’s Eight Championships held at MIT on Saturday. The Engineers scored 100 points, while competing teams Wheaton College, Smith College, Mount Holyoke College, and Worcester Polytechnic Institute scored 215, 144, 89, and 35 points, respectively.

The meet began with numerous outstanding performances in the field events. Co-Captain Elaine Chen ’99 took fourth place in both the long and the high jumps, with leaps of 15’6.75” and 41’10”, respectively. Chen’s effort in the long jump qualified her for the New England Division III Championship, making thin the fifth event in which she has qualified.

The exhibition pole vault event was a source of strength for the Engineers. In the hammer throw, Jennifer Elizondo ’99 threw an excellent 108’4”, earning a fifth place finish, while Rena Nasev ’01 finished seventh with a personal best of 80’25”. Nasev also performed brilliantly in the javelin throw, finishing second with a season best of 195’05”. Crystal Harris ’00 also scored in the javelin, taking sixth place with a throw of 85’09.75”. She also took third in the discus, where she launched the disc 107’01”. Joy Gathers ’99 set a personal record in the discus with a throw of 71’01”.

With an excellent start in the jumps and throws, the Engineers took to the track, looking to gain more ground on their opponents. In the hurdles, Alyssa Thordalven ’00 showed her versatility as a runner; placing first in both the 100 meter high hurdles and the 400 meter intermediate hurdles. In the high hurdles, Thordalven placed third with a time of 17.19 seconds, while in the intermediate hurdles, she placed fifth with a personal best of 1:10.15. French also scored for the Engineers in the high hurdles, taking sixth place with a time of 18.38 seconds.

In the sprints, the Sprinths and Natalie Smith ’98 came through for the Engineers, each running season bests. Chen tied her personal record of 26.98 seconds in the 200 meters, taking fourth place. Smith bolted through the 400 meter finish in a time of 2:03.25 seconds, taking fifth place. While Chen had already qualified for Division III’s track championships, thin was Smith’s last opportunity to qualify for the 400. She did so by running one second faster than the necessary time.

The excitement really began when the middle and long distance runners competed. MIT placed well in every distance from the 800 to the 5000. In the 5000 meters, Co-Captain Janis Eisenberg ’98 ran a season best of 19:34.44, earning her second place. Jan Ting ’00 placed fourth with a personal best time of 20:11.66. Ting’s performance qualified her to run in the Division III’s.

MIT won first, second and fourth in the 3000 meters. Debbie Won ’00 had an easy victory in a time of 10:48.92, while Eisenberg and Margaret Nervegna ’01 beat out their competition later in the race. Eisenberg, tied for second with 100 meters to go, was able to outkick her competition from Smith, finishing in 11:23.10. Nervegna won the battle for fourth place with a time of 11:48.72.

Unfortunately, the 1500 meter run wasn’t as easy for distance powerhouse Won. Won finished second behind a Smith runner with a personal best time of 4:55.34. Personal bests were also set in the 1900 by Toya Zalewinsky ‘99 and Nervegna. Despite a foot injury, Zalewinsky finished sixth in 5:22.95, with Nervegna not far behind in seventh at 5:24.48.

Perhaps the best performances of the day were seen in the 200 meter run. Leah Nichols ’00 set the pace, taking the lead of the pack throughout the 200 meter mark in 21 seconds. This quick start led to a personal best race for Nichols as she clocked an amazing 2:23.04. Not only did this performance qualify Nichols for Division III’s Women’s Track, Page <None>