ASSOCIATE NEWS EDITOR

To Relieve Dormitory Crowding
Eisenmann '70.

able to volunteer for the spaces, undergraduate residences will be
dormitory crowding.
ates will likely move to Tang Hall
Campus Activities Andrew S.
By Krista L. Niece
Tang Will Receive Undergrads
regard to rush this year with the
Spring Weekend events.
GONE BOWLING -
"It came from some discussions after Scott's
died, he said.

Lemelson dis-

launched a campaign to the weekend for the first

estimated attendance of the Funk Fest
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coordinator of Spring Weekend.

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Tang, Page 17

Funk Festival, Granian, Games
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By Susan Buchman

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Israel Prime Minister Benjamin Netanyahu said Monday that he does not believe in negotiating with Yasser Arafat, occupying him, Palestinian leader Yasir Arafat and Secretary of State Madeleine K. Albright are "a make or break" effort of the Israeli-Palestinian peace process.  "It's being presented as such, but I think the interest in peace is too weak to be dependent, to privatize, on one meeting alone," Netanyahu said.

Albright said Sunday in New York that the peace process is "going to take longer" but "it is not a good idea" to talk about arabic politicians. "We have been going around in circles long enough," he said.

Arafat also stepped up his warnings to Albright in response to the Palestinian leader's vow to declare statehood on May 4, 1999, a date advanced by three months from the original one.

Meetings With Albright and Arafat

By Frank Swoboda

Washington Post

Federal investigators Monday cleared James P. Hoffa to run for the Teamster presidency, clearing the son of the infamous Jimmy Hoffa the frontunner in the race to control the nation's largest trade union.

The action came as prosecutors probing links between the Teamsters financial scandals and the multimillion-dollar offer of land to the fraternity's wilderness retreat closed in on Hoffa's financial empire.

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Bishop Jose Gerardi Brutally Murdered in Guatemala City

By Juanita Darling

L A N G U A G E T I M E S

GUATEMALA CITY

The Roman Catholic bishop who supervised a recently published study of human rights abuses com-
mitted here in three decades of a U.S.-backed conflict has been brut-
tally murdered. The act is a reminder of the bloody violence that has haunted this nation from its decades of civil war.

An assassin crushed the skull of Bishop Jose Juan Gerardi with a concrete block as the cleric, return-
ing from dinner with his sister, entered his house at 11 p.m. Sunday, church officials said. The 75-year-old coordinator of the Guatemalan Archbishop's Office of Human Rights was hit 14 times on the back of the head and the face. Nothing was stolen.

A statement released Monday by the independent human rights office gave the government 72 hours to clear up the crime, because "if they do not investigate this case, the cost for Guatemala will be high."

Police have found a witness and are looking for a suspect based on a composite drawing. Attorney General Hugo Perez Aguillera has called this crime "a vile murder."

U.N. Secretary-General Kwame Annan condemned the killing "in the strongest terms." The United States said it deplored the "senseless act of violence" and called on Guatemala to begin a full investigation.

And the Catholic Bishops' International Policy Committee called the murder a "horrific shock" and "despicable crime." Authorities in this crime-ridden nation have not stated a motive for this murder. But for those who worked with Gerardi, the reason was clear. "This was a blow against the peace process," said Guatemalan human rights activist Hellen Mack. "For them to have killed a bishop, which they did not even dare to do during the war, shows how far [some people] are willing to go to stop the peace process."

Gerardi initiated and directed the Roman Catholic Church's Historical Memory Recovery pro-
ject, a three-year study of human rights abuses committed in the civil war that ended with a peace agree-
ment in December 1996. Released Friday, the 1,400-page study, "Never Again," compiled 6,500 interviews, many in Mayan lan-
guages.

It was the first attempt to docu-
ment atrocities committed in the 36-year conflict between Communist guerrillas and the government, which except for the last years of the war was made up of U.S.-backed military dictators.

U.S. Appeals Court Strikes Down Campaign Spending-Limit Law

By Lyle Denniston

WASHINGTON

In a case that President Clinton and campaign finance reform adva-
eces hope will lead the Supreme Court to change its mind about spending ceilings, a federal appeals court struck down on Monday a Cincinnati ordinance that limited campaign spending by a council member to $140,000 on spending by a council candidate. That is about three times a council mem-
ber's annual salary.

The City Council, although warned by its lawyers that the mes-
sure would run afoul of Supreme Court rulings, passed it anyway to "take the lead" in testing the issue.

In 1976, in a famous case known as Buckley v. Valeo, and in several rulings since, the Supreme Court has declared that spending is a form of political speech, and it is unconstitu-
tional under the First Amendment to be regulated when the spending is by the candi-
date, by independent supporters, by political action committees or by political parties.

But, in a closely orchestrated and still-widening campaign, propo-
nets have been trying to set the stage for a new Supreme Court look at the issue. The Cincinnati ordinance and the lawsuit over its validity have been the chosen vehicles for a new trip to the highest court.

The proponents believe that the failure of other attempts to cut the influence of money in politics in the years since 1976 will encourage the court to conclude that the goal can be met only by curbing spending directly. The court has upheld con-
tribution limits, but advocates of spending limits say those clearly have been worked to remove the money taint.

Proponents did not expect to win in the lower courts, since only the Supreme Court can change its constitutional declarations.

Japan Punishes Finance Officials

WASHINGTON

Japan's Ministry of Finance disciplined 112 of its officials for improperly accepting meals and entertainment from financial institu-
tions it supervises. The ministry said Congress on Monday. The action con-
stitutes a crackdown in some parts of the government here against practices long considered a standard part of the job.

Two senior officials, including the head of the securities bureau, resigned. Others, including Enosuke Sakakibara, the influential vice minister for international affairs for his ability to influence exchange rates, received official reprimands.

"We have found that many employees had excessive relationships-
ships with private financial institutions," Finance Minister Hikaru Matsumaga said at a news conference. "This is truly regrettable and I deeply apologize," Matsumaga said as he showed an statement, be-

As of 5:30 p.m. in Room 50-220 All graduate students are welcome. Food is provided.
The Character of History and Palestine

Historical revisionism is problems in any form. In its worst manifestation, it can literally change our past in order to satisfy our present. In a recent column in The Tech [*Zionism Did Not Destroy Palestine*, April 24], Omri Schwartz takes a revisionist approach, which is troubling in this case mostly in that it is based on a creative representation of Amin al-Husseini, a Palestinian leader of the 20s and 30s. Scholars of the Middle East understand that the Islamic revival we see today, for better or worse, are just that: revivals. The Middle East had little appetite for theocratic rule after the fall of the Ottoman Empire. In fact, many had blamed the rickety state of government on the certainty of political life. Given this atmosphere, Amin al-Husseini, whatever his personal inclinations, was a significant nationalist adversary in Palestine. We can only conjecture what elements rose in Jewish society as a result of al-Husseini’s presence. Schwartz speculates that, as a Palestinian, al-Husseini was accountable for a “Zionist faction of radical nationalists.” Such an assertion shifts the responsibility for extremism in a spectacular way.

Historical revisionism can be dangerous, but it can be downright devastating for our responsibility for extremism in a spectacular way.

It is fraught with lies, misrepresentations and ale and at times where they could not attack Turkish people. In these matches, some Armenians died. Some of their own countrymen are still fighting to make some par t from attacks launched from Russia. At the end of the day, Turkish people were able to save their freedom - I dread to think about what would have happened if Anatolia was colonized by the invaders.

To add insult to injury, Chitilian goes so far as to say that somehow the Holocaust, and the genocide in Bosnia, Cambodia and Rwanda would have been prevented if “Turkish government,” let alone one that supported the leadership of Atatürk, established the current Republic of Turkey. As a Turkish American, I am proud and grateful that my forefathers were able to save our freedom — I dread to think about what would have happened had Anatolia been colonized by the invaders.

The real question to ask is, who will remember the Turkish people who are currently suffering at the hands of Armenians? Sevgi Ertan ‘98

**Genocide Denied**

The letter by Varouj Chitilian G [*"Armenian Genocide Remembered*", April 24] is fraught with lies, misrepresentations and baseless accusations. There was no systematic extermination of Armenian civilians by the Turkish authorities. On the contrary, Turkish people themselves were struggling for existence against not just the Armenian guerrillas, but the world.

The years surrounding 1915 were marked by the turmoil of an empire in collapse. The Ottoman Empire was on all fronts - by Greece and the Allied powers in the west and by Kurdish and Armenian insurgents internally. For generations, Turkish and Armenian people had lived in harmony. As early as 1800s, however, Armenian insurgents had been fighting to free themselves from Ottoman rule.

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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 editor, and opinion editor.

Disputes are the opinions of the signed members of the editorial board choosing to publish their disagreement with the editorial.

Letters to the Editor are written by individuals and represent the opinion of the author, not necessarily of the newspaper.

Letters are welcome and encouraged to be sent to letters@the-tech.mit.edu. Hand copy submissions may be sent to The Tech, 397029, Cambridge, Mass. 01239, 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 must bear the authors’ signatures, addresses, and phone numbers. All letters are subject to editing without the express prior approval of The Tech. Once submitted, all letters become property of The Tech and may not be returned to the author.

The Tech makes no commitment to publish all the letters we receive.

To Reach Us

The Tech’s telephone number is (617) 253-1541. E-mail is the easiest way to reach any member of our staff. If you are unsure who to contact, send mail to general@the-tech.mit.edu, and it will be directed to the appropriate person. The Tech can be found on the World Wide Web at http://the-tech.mit.edu.

Letters To The Editor
When the press is often seen as a "glue" and an aesthetic, it must carry out its role as a "shameful punishment". We have seen the media's role in enfolding the truth, but we must point out the responsibility of the press to bring up the issues in society. The press has a wide audience, and it is the bearers of "gloom and doom". I think that the press is often seen as an obstacle to freedom and democracy. It is not just a "way of passing" but a "way of life". It is a means to "blot [the criminal] out from the catalogue of mankind and from the catalogue of life" in cases when the criminals are serving a life sentence. In ancient Greece, the truth that the press is often seen as an obstacle to freedom and democracy. It is not just a "way of passing" but a "way of life". It is a means to "blot [the criminal] out from the catalogue of mankind and from the catalogue of life" in cases when the criminals are serving a life sentence.
TRUMAN SCHOLARSHIPS 
Informational Meeting

Thursday, April 30, 1998
4:00 p.m., Room E51-275

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

Professor Anne McCants, MIT's Truman faculty representative, and Monisha Merchant (Class of 1999) and a 1998 Truman Scholar, will be available to answer questions and to share their experiences with you.

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

For more information, please contact the History Office at 253-4965, or visit the Truman Scholarship Foundation website at http://www.truman.gov/.

Robert S. Langer ScD ’74, the Gershenson Professor of Chemical and Biomedical Engineering at MIT, was recently named the 1998 recipient of the $500,000 Lemelson-MIT Prize, the world’s largest single prize for invention and innovation. Established by the late prolific inventor Jerome H. Lemelson and his wife Dorothy, and administered by MIT, the award is presented annually to an American inventor-innovator for outstanding inventiveness and creativity.

The first MIT-affiliate to receive the Lemelson-MIT Prize, Langer’s pioneering research with polymers has led to a majority of his discoveries and earned him the Lemelson-MIT distinction. His achievements resulted in many breakthroughs, including brain cancer treatment, tissue repair, innovative waste disposal, and controlled drug delivery, which benefits millions of people each year.

Langer received a Bachelor of Science with Distinction in Chemical Engineering from Cornell University and a Doctor of Science in Chemical Engineering from MIT, where he has been teaching and doing research since 1977. He is currently the holder of 270 patents, author of 559 research papers, editor of 12 books, and the recipient of over 60 national and international honors.

Last week, The Tech sat down with Langer to discuss his accomplishments, his research and his story as a scientist and inventor.

The Tech: Professor Langer, what initially inspired you to become interested in chemistry and chemical engineering?

Robert S. Langer: When I was a little boy, I was given a Gilbert chemistry set and I was really excited about playing with it, making bubbles and seeing colors change in response to different chemicals. I suppose that was the very first time when I got interested in chemistry.

Tech: How did your interest persist?

Langer: When I was in high school, I took a chemistry class and I enjoyed that too, probably for the same reasons. In college, I enjoyed chemistry, and I actually didn’t enjoy some of the other courses.

Since I was in an engineering school, I thought chemical engineering was an interesting area to go into, so I studied that as an undergraduate, graduate, and again in graduate school.

Tech: Why did you choose to enter chemical engineering over chemistry?

Langer: One of the things that has been very important to me is to do some good basic work, but I also want to see it go somewhere and help people. 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.

Polymers can be useful

Tech: In much of your work, one discussion often led to the development of another, particularly with the research involving polymers, which earned you the Lemelson-MIT Prize. In what ways have polymers played an important role in your researches on tissue regeneration and controlled drug delivery?

Langer: When you make a discovery, it also leads to a lot of unanswered questions. When we first showed that you could use polymers to slowly release large molecules, people were pretty skeptical that you could do it. And then a couple of years later, people in some other groups reproduced it, and then everybody kept asking, “Well, how could this possibly work? What’s the mechanism?”

And then a couple of years after that, after we identified the mechanism, one of the issues was how stable would these large molecules be? So Alex Klibanov, a Professor of Chemistry, and I decided to study that.

In other words, each time you solve a problem, it’s not like you solved everything. It’s a long long way from a concept to the clinic. We then raise more questions than we answer.

Tech: What characteristics of polymers actually allow you to apply it to so many areas?

Langer: There are many great things about polymers, particularly synthetic polymers, which are used in so many aspects of our lives. The beauty of synthetic polymers is that you can tailor them to do both chemically and physically almost anything you want. So chemically, you can tailor them to give the exact degradation rate. You can make them last for a day, or you can make them last for a year. You can also import other properties, like mechanical strength. Physically, you can control the pore structures very precisely, and that is very important for controlling the release of a drug. In dealing with synthetic polymers, there are synthetic challenges, and some there are processing challenges, but you have the ability to ultimately make polymers that can do what you want in many cases.

Tech: Can you pin-point one that actually sparked the decision to use polymers?

Langer: I had worked at a hospital for a number of years, and one of the things I noticed in the hospital is how materials began to get used in medicine. I wouldn’t have liked to have thought that material scientists or chemists or chemical engineers played the central roles. That actually wasn’t the case. Before we got involved, clinicians took off-the-shelf polymers used in a household object, and said basically, “If it resembles the organ we’re trying to fix, then use it in medicine.” For example, back in 1967 when clinicians wanted to make an artificial heart, they wanted all the objects that had good flexural properties and decided to use a ladies’ girdle. Then they asked, “What’s the material in a ladies’ girdle?”

They thought a polyurethane, so they made the artificial heart out of that. Some of the materials with the artificial heart in some blood exposed to its surface forms a clot, and the patient could get a stroke.

Actually, if you look at almost all polymers that are used in medicine today, they had similar origins. Like the breast implants, one of them was originally a lubricant. Another was a mattress stuffing. So I started approaching the problem like an engineer.

Tech: And create your own materials?

Langer: Yes, so I started thinking, “Well why don’t we ask what you really want in a biomedical polymer,” from an engineering standpoint, from a chemistry standpoint, from a biological standpoint, and we put all these down on paper and asked different engineering questions, and then we synthesized the material. So that’s really the way.

Langer, Page 10
Keynote Speaker:

Bill Porter

'67, Chairman and Founder of E*Trade Group, Inc.

Thursday, May 7, 1998
8:00 PM
Walker Memorial
Massachusetts Institute of Technology

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Republican Cuts Harm Environment, Kerry Argues

Kerry, from Page 1

Republican Cuts Harm Environment, Kerry Argues

Senator John Kerry (D-Mass.)
Langer, from Page 6
way we got started.
Tech: What are some specific examples of when this idea was applied?
Langer: In the late 70's, we were incredibly limited, and we still are, in terms of the number of synthet- ic degradable polymers that you can use in a person. The only type of synthetic degradable polymers were polyester sutures. They were okay for some things, and we've used them for some delivery pur- poses. But they also show a proper- ty called "bulk erosion," meaning that over time, they become spongier and ultimately fall apart. So if you uniformly distribute the drug in the polymer, it could potentially dump the drug.

Asking from an engineering standpoint, "What would be ideal for drug delivery," we decided we wanted what we called "surface erosion," which is analogous to the way a soap dissolves. The challenge was, could we make a polymer that would show surface erosion? We came up with the idea that a family of polymers called polyesters could do this, and got to that point by asking a lot of engineering design questions. Then we synthesized these polymers. There were a number of synthetic challenges, but we were able to solve them and now we can make the polymers last any- where from a day to six years or anytime in between.

One of the areas that surface erosion polymer can be applied is in the treatment for brain cancer. Henry Brem, a colleague of mine at Johns Hopkins, and I started thinking, "What if we were able to make a polymer that would just slowly release a cancer drug right to the tumor?" And it's important that it through surface erosion because you wouldn't want to dump a bad drug like that into the brain. From other studies we did, we wanted the polymer to last for four weeks, so we made a brain cancer delivery system out of these polymers.

So now when a neurosurgeon operates on a patient, they take as much tumor out as possible, and before they close up the patient, they put in little wafers, each a little smaller than a dime, into the brain. The whole idea is that this gives you a way to locally deliver the drug to a tumor, and it's also better from a chemotherapy standpoint because you don't have all the toxic side effects associated with getting these drugs intravenously.

Tech: Are there any side effects at all?
Langer: Much fewer than sys- temic chemotherapy. In fact, when I got the award, a patient who was treated by this technique came to the ceremony. He said that there were no side effects, and he is now still alive and well a number of years later. Basically we went in, had the operation, and was back to school within a week.

Solving drug delivery problems
Tech: What is involved in your research on controlled drug deliver-
Langer: In controlled drug delivery, we work today on mainly two types of approaches. Approach one is we create materials that can solve drug delivery problems. An example of that is before our research started, scientists could only slowly release low molecular weight lipophilic drugs such as steroids. We created approaches using syn- thetic polymers to deliver drugs of all molecular weights, including high molecular weight drugs like peptides, proteins, and DNA. A subset of this research is work we're doing with Professor of Chemistry Alexander M. Klibanov to stabilize proteins. For example, when you're trying to release pro- teins for a month, these molecules may become unstable in the pres- ence of water and body temperature. We are also developing microcaps with Professor of Materials Science Michael J. Cima so that someday you could have a whole pharmacy on a chip. Another area of research is to synthesize polymers that dis- play surface erosion. These are used in the treatment of brain can-

The second aspect of our con- trolled drug delivery research is transport. Can we develop approaches so that you don't have to take injections? First, could you deliver complex molecules through the skin? Right now you can only deliver a couple of molecules through the skin. All of these are lipophilic, such as nicotine and nicotine-glycerin. I'm working with Visiting Professor Joseph Koit and Professor of Chemical Engineering Daniel Blankstein, to see if we can use ultrasound to deliver different mole- cules. I'm also working with Dr. James C. Weaver of Health Sciences and Technology to see if we can use electricity. We're also done work with Dr. David Edwards to create new aerosols whereby you can inhale complex molecules like proteins or DNA. We made the aerosol that degrades into a fine powder and makes it possible to get them through the lungs. This way, the aerosols don't aggregate nearly the same amount and will flow into the deep lung because of the differences in aerodynamics and be absorbed more easily. We have already worked with Richard Mulligan at Harvard Medical School and are developing new approaches for gene therapy, using novel synthetic polymers as carriers for DNA.

Tech: Is one method easier to incorporate the drug into the body? Langer: The tissue regeneration projects I mention...
The TECH Page 11

April 28, 1999

way we got started.

Tech: What are some specific examples of when this idea was applied?

Langer: In the late 70’s, we were trying to come up with polymers that were not fragile. Some of these degradable polymers were used to help heal wounds, and they didn’t work okay for some things, and we’ve used them for some delivery pur-

Tech: You mean the polymers that could be used to deliver drugs?

Langer: In that sense. And it’s important that their degradation is due to surface erosion because you wouldn’t want to dump a bad drug on the skin. All of these are lipophilic, which means they play surface erosion. These are now polymer mikros. I’m working with Visiting Professor Joseph Kost and Professor of Chemical Engineering DanielBlankenship, to see if we can use these polymers to deliver drugs in the brain. I’m also working with Dr. James C. Weaver of Health Sciences and Technology, to see if we can use electricity. We’ve also done work with David Edwards to create new neurons where you could in the brain. And we made a brain cancer delivery system that over time, they become spongy, and then gets to that point by asking a lot of designing questions. Then we syntheti-

Tech: Are there any side effects at all?

Langer: Much fewer than sys-

Tech: Is one method easier to use than the other?

Langer: It all depends on the type of drug. If you have a little molecule, like an aspirin, then your goal is to swallow it. If you have a large molecule, like a protein or a peptide, then you probably need to inject them. So, most of those peptides don’t last very long, so you might need to put it in a microplastic microcapsule that you can inject underneath the skin, and have it release for a long time.

Tech: Do you see your major research area is tissue regeneration. Can you talk about that?

Langer: The tissue regeneration research started in the early 1980’s with a collaboration with a professor at Harvard Medical. He is in charge of organ transplantation at Children’s Hospital. We’ve known each other for a long time. He pre-

Tech: Is there a way to make sure that these polymers, they would ask, “Don’t these polymers react with drugs?” Two years after that, we said, “Even though you’ve solved that problem, the polymers are very fragile.” And this was true, because at that time we had made only low molecular weight polymers. It took a lot of work, but one of my post docs, Avis Domb, then synthesized high molecular weight polymers.

Langer: There’s always a lot of obstacles. In 1981, people reviewed our ideas and said, “You can never synthesize these polymers.” Two years later, after we synthesized these polymers, they would ask, “Wont these polymers react with drugs?” And it’s important that its design questions. Then we synthesized these polymers. There were a number of synthetic challenges, but we were able to solve them and now we can make the polymers last any-

Tech: What is controlled drug delivery?

Langer: In controlled drug delivery, we work today on mainly two things. First, could you develop an approach of using syn-

Tech: What is tissue regeneration?

Langer: Your other major research area is tissue regeneration. Can you talk about that?

Tech: When that part of the world comes to the patient, they take as much tumor out as possible, and before they close up, they put in little wafers, each a little small molecular weights. In the brain. The whole idea is that this gives you a way to locally deliver the drug to a tumor, and it’s better from a biological standpoint because you don’t have all the toxic side effects associated with getting these drugs intravenously.

Tech: What is tissue regeneration research?

Langer: What is involved in your research on controlled drug deliver-

Tech: Is one we create materials that can solve drug delivery problems. An example of this is that in the 1980’s some research, scientists could only slowly release low molecular weight lipophilic drugs such as steroids. We created approaches using synthetic polymers from all molecular weights, including high molecular weight drugs like peptides, proteins and DNA.

A subset of this research is work we’re doing with Professor of Chemistry Alexander M. Klibanov to stabilize proteins. For example, when the protein is put in a solution at a certain temperature, it may become unstable in the pres-

Tech: How do you feel about your work?

Tech: Any student interested in applying to be a member of the board may pick up an application in the UA office. The application must be returned to the UA office by 5PM, April 28th, 1998.

ATTENTION STUDENT GROUPS

UA Financial Board Funding Requests for All 98 Due Noon, May 1st.

Funding Requests now in three easy steps:

Step #1: Fill out a Budget Request which can be obtained by picking up a copy from the UA office (W20-401) or through Athena by running:

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ättstep add finboard
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Step #2: Write a one-page budget defense. This step is replacing the oral defenses that took place during budget comps.

Step #3: Attach the two forms together and turn them into the UA office by 12PM Friday, May 1, 1998. Late forms will NOT be accepted.

Any student interested in applying to be a member of the board may pick up an application in the UA office. The application must be returned to the UA office by 5PM, April 28th, 1998.

Robert S. Langer ScD ’74
International Fair ’98

Above, Soosan Beheshti G serves food at the Iranian Students’ Booth. Right, James L. Chen ’00 and Kaechy Chen ’00 modeled traditional Chinese clothes during the I-fair fashion show.

POLICE LOG

The following incidents were reported to the Campus Police between April 16 and 22. Information is compiled from the Campus Police’s weekly crime summary and from dispatcher logs. This report does not include alarms, general service calls, or incidents not reported to the dispatcher. “Medical Services” includes medical shuttles, transports, escorts, and other emergency services.

April 16: Bldg. E32, suspicious activity; Bldg. E17, larceny of laboratory cart and pans, $570; Bldg. 54, Edward Stone of 678 Massachusetts Avenue, Cambridge, arrested for trespassing; Ashdown House, harassing phone calls; Student Center 1) larceny, cash, $20; coat, $100 2) past larceny, cartoon and video; Student Center loading dock, motor vehicle accident, no injuries. Medical service calls: 7.

April 17: 450 Memorial Drive, assist State Police with motor vehicle accident, one operator placed under arrest by State Police for driving under the influence; Killian Court, burning leaves inside grate, extinguished by Cambridge Fire Department; Bldg. 57, larceny of time clock, $800; Bldg. E19, harassing phone calls; Bldg. W31, larceny of bicycle, $199. Medical service calls: 11.

April 18: Baker House, complaint of noise on roof; New House, complaint of noise, music shut off, no further complaints; Bldg. 2, larceny of bicycle, $300; Rockwell Cage, larceny of wallet, $5; watch, $85; Westgate Lot, possum impaled upon fence. Medical service calls: 2.

April 19: Next House, complaint of noise, music shut off, no further complaints; Pi Lambda Phi, larceny of front door of fraternity and plaque; Bexley Hall, check on student’s well being, everything fine; 450 Memorial Drive, assist State Police with motor vehicle accident; MacGregor House, check on student’s well being, student reported missing, later found to be fine. Medical service calls: 6.

April 20: New House, check on student’s well being, student found to be away for weekend; Tang Hall, Robert W. Valliant of 29 Chaufk Street, Cambridge arrested for trespass after notice and resisting arrest; Student Center, student threatens harm to himself over phone to another, transported to medical department. Medical service calls: 3.

April 21: Pierce Boathouse, report of assault and battery, responding officers stop Randy A. Schwarzberg of 33 Endicott Street, Lynn, who then attacks officers, placed under arrest for assault and battery on a police officer; Bldg. E17, larceny of water cooler, $150; Bldg. 7, complaint of harassment, flyer inserted in department publication; Bldg. E34, larceny of electronic balance, $90; Bldg. E51, larceny of bicycle, $1,725; 77 Massachusetts Avenue, demonstration, no problems observed; Bldg. W20, larceny of checks. Medical service calls: 4.

April 22: Pierce Boathouse, report of assault and battery, responding officers stop Randy A. Schwarzberg of 33 Endicott Street, Lynn, who then attacks officers, placed under arrest for assault and battery on a police officer; Bldg. E17, larceny of water cooler, $150; Bldg. 7, complaint of harassment, flyer inserted in department publication; Bldg. E34, larceny of electronic balance, $90; Bldg. E51, larceny of bicycle, $1,725; 77 Massachusetts Avenue, demonstration, no problems observed; Bldg. W20, larceny of checks. Medical service calls: 5.

The annual Baker piano drop was resurrected on Saturday afternoon. It had been cancelled last year due to safety concerns.

When you buy products made from recycled materials, recycling keeps working. To find out more call 1-800-CALL-EDF.
April 28, 1998

Off Course

by Hugo

THE STORY SO FAR: Rhino-Man is meeting with the Yakuza (Japanese mafia) members who framed him.

But alas, you did. And we destroyed you for it. You have to admit, it is only a matter of time before funding for Sector 9 is yanked.

THE NAME IS...IS TRASH, LOWER THAN TRASH.

The bribe lies, assault lies, robbery lies... if you didn't take such an interest in our business, we wouldn't have taken such an interest in destroying yours.

Here's our offer: First, hand over that nice, cash gift in the briefcase. Second, go out and confess to the press that you're a mobster and that you really are guilty of all those crimes. You must then take your life. Sector 9 will be spared. We just want you... on our team.

And if I refuse?

MAN, THIS SEAT SUCKS!

MAN, THIS SEAT SUCKS!

Hey, this might be a better seat.

Try not to make fun of Chip.

Recap: Bait was led into a trap by none other than the evil (but really, really cool!) Chip Per!

Attack, my Nerd Rule! Don't take no prisoners. Teach them a lesson! We won't forget it! Chip!

Why do I have this weird feeling?

So, you want to play?

WOULD YOU STOP MOVING YOU ARE RUINING THE RECEPTION

I HAD AN ITCH

WOW, HE'S SO COOL!

SORRY YOU HAD TO MOVE... I COULDN'T SEE OVER YOUR HEAD

Here's our offer: First, hand over that nice, cash gift in the briefcase. Second, go out and confess to the press that you're a mobster and that you really are guilty of all those crimes. You must then take your life. Sector 9 will be spared. We just want you... on our team.

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And if I refuse?
Perhaps...

Knock
Knock
Knock

... Bill Clinton at MIT...

Noun Poetry by Katy-Cut

back dive

puddle

green chive

AHH ... SWEET CUBICLE, I HAVE RETURNED FROM MY TRIP.

IT'S JUST LIKE BEING IN A WOMB.

I JUST WANTED TO POKE MY HEAD IN AND SAY HI.

DOGBERT THE CONSULTANT

I CAN GIVE YOU EXCELLENT ADVICE FOR $50,000 PER MONTH...

IF BUDGET IS A PROBLEM, I ALSO OFFER BAD ADVICE FOR THE LOW PRICE OF $45,000 PER MONTH.

THAT'S NOT A GOOD SIGN.

I SAVED A LOT OF MONEY BY HIRING A LOW-PRICED CONSULTANT.

THESE AREN'T THE BEST RECOMMENDATIONS IN THE WORLD, BUT THE PRICE WAS VERY REASONABLE.

I DON'T LIKE THIS ONE ABOUT ROLLING AROUND ON UNWASHED HAMBURGER PATTIES. KEEP AN OPEN MIND.
Most Americans know that the lyrics to the national anthem of the United States, "The Star-Spangled Banner," were written by Francis Scott Key while he watched the successful defense of Ft. McHenry during a battle in the War of 1812. He, however, did not compose the music — his lyrics were set to the tune of an English drinking song, "To Anacreon in Heaven." This combination soon became popular throughout the country, but Congress didn't officially adopt it as the national anthem until 1931.

What Nobel Prize laureate composed national anthems for both India and Bangladesh?

This week's winners will each win two LSC movie tickets and one large tub of popcorn, courtesy of LSC.

*Showing this weekend:*
- Friday 7:30 p.m. in Room 10-250
  - Two Mules for Sister Sara
- Friday 7 and 10 p.m., Sunday 7 p.m. in Room 26-100
  - Great Expectations
- Saturday 7 and 10 p.m., Sunday 10 p.m. in Room 26-100

Jackie Brown
Send your answers to trivia@the-tech.mit.edu by 3 p.m. Wednesday. Two random drawings from all of the correct entries will be held to determine this week's two winners.

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 are not eligible.

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**PUZZLE SOLUTIONS**

By Anthony R. Salas

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**Massachusetts Institute of Technology Reserve Officer Training Corps is Proud to present its annual tri-service Presidential Pass-In-Review**

Join professors and students from colleges throughout Boston as 150 students march in this traditional military event.

with an address given by the Honorable

**Thomas R. Hudner, CAPT, USN(ret)**
Former Naval Aviator and Medal of Honor Recipient

with opening remarks given by

**MIT Senior Vice President William Dickson**

and a special appearance by the Navy Band

**3:00 P.M.**
April 29, 1998
Brigg’s Field
What are you doing awake at this hour, honey... and why is your flashlight on?

Oh, it's probably just that darned "human head that refuses to die." I put it in there when I cleaned out the attic this morning.

Thanks, that explains it. I was afraid it might be a squirrel or something.

I'm spooked, Mom. Something is moving around in my closet.

---

This is the **opportunity of a life time** to travel and make money. Qualify as a Daewoo Campus Advisor and get a **FREE trip** to Korea. Then you'll be at the center of a unique marketing program that will launch Daewoo into the U.S. market during 1998**.

From the moment you arrive in Seoul, Korea this summer your days will be crammed full of exciting, new experiences. You'll see Daewoo products, visit Daewoo production facilities and enjoy Korean culture. The "**Discover Daewoo**" program is an experience you'll never forget.

Then when you return to college as a Daewoo Campus Advisor,** you'll have the opportunity to earn money and purchase a new Daewoo car at a substantial discount.

Help build a new car company by helping us market Daewoo cars during your spare time.

- Complete details will be provided at a later date.
- Rules of this program may vary to comply with various state regulations.
- Subject to eligibility and qualifications.

---

To qualify as a Daewoo Campus Advisor, you must be:

- A college student.
- At least 18 years old.
- A U.S. citizen.
- Lives within driving distance of a Daewoo dealership.

For a free brochure, write Defense Fund, 257 Park Ave., South, New York, NY 10010, or call 1-800-CALL-EDF.

---

**Thanks to you, all sorts of everyday products are being made from the paper, plastic, metal and glass that you've been recycling.**

But to keep recycling working to help protect the environment, you need to buy those products.

---

**OPPORTUNITY HONKS!**

---

**BUY RECYCLED.**

And save.

So look for products made from recycled materials, and buy them. It would mean the world to all of us.

---

This space donated by The Tech.
Tang Hall will house approximately 100 undergraduates next fall in an attempt to relieve dormitory crowding.

Although undergraduates will take up 100 beds in Tang, the administration hopes to offset these losses with 132 new spaces for graduate students in the new MacGregor House, which are priced at $725 per month. Sandeen said that the new spaces might be subdivided for incoming graduate students.

Separately, the Graduate Student Council has asked the Provost Joel Moses PhD '67 to subsidize Withington Place apartments, which are priced at $750 per month compared to $400 at Tang. Sandeen said that there are some groups of undergraduates who are interested in living in Withington Place but cannot afford the rent.

Sandeen said that some student government members want change, but that the situation is not as clear-cut as some people believe. "We have to look at the big picture before deciding what to do," she said. "We need to consider the potential impact of any proposed changes on the wider student body, and on the University as a whole."

However, the final decision on whether to move undergraduates to Tang will be made by the administration, Sandeen said. Meetings will be held to discuss the options and to gather input from students and faculty.

DEFINITION OF TERMS

Term: "Dormitory Crowding"
Definition: A situation in which the number of residents in a dormitory exceeds the intended capacity, leading to overcrowding and decreased living conditions.

Term: "Subsidized Housing"
Definition: Housing that is provided at a reduced cost to students who meet certain criteria, such as financial need or academic performance.

Term: "Undergraduate"
Definition: A student who is pursuing an undergraduate degree, typically at the bachelor's level.

Term: "Graduate Student"
Definition: A student who is pursuing a graduate degree, typically at the master's or doctoral level.

Term: "University Dormitory"
Definition: A facility provided by a university for the residence of its students, typically including shared living spaces, common areas, and sleeping accommodations.

Term: "Student Senate"
Definition: The primary student government body at the University, responsible for representing student interests and concerns, and for passing legislation affecting students.

Term: "Administrative Intervention"
Definition: The use of administrative action by university officials to address issues of concern, such as overcrowding in dormitories.

Term: "Student Quality"
Definition: The perceived quality of student life at the University, including factors such as living conditions, academic resources, and social opportunities.

Term: "Dormitory Expansion"
Definition: An expansion or increase in the capacity of a dormitory to accommodate more residents, typically to address overcrowding.

Term: "Student Grievance"
Definition: An official complaint made by a student to a university official, typically involving an issue related to the student's living conditions or academic performance.

Term: "Student Union"
Definition: A student-run organization responsible for managing and coordinating student life on campus, typically including social, cultural, and educational programs.

Term: "Student Activism"
Definition: The use of collective action by students to address issues of concern, such as overcrowding in dormitories or other student quality issues.

Term: "Student Union Fee"
Definition: A fee assessed by the University as a part of the student tuition and used to fund student activities and programs.

Term: "Student Housing Council"
Definition: A body of elected student representatives responsible for advising the University on matters related to student housing.

Term: "Student Housing Board"
Definition: A body of elected student representatives responsible for advising the University on matters related to student housing.

Term: "Student Government"
Definition: The primary student government body at the University, responsible for representing student interests and concerns, and for passing legislation affecting students.

Term: "Student Life"
Definition: The overall experience of being a student at the University, including factors such as living conditions, academic resources, and social opportunities.
And how much solid waste is there? How much is burned and how much is wasted. There is still a great deal of room for improvement in the recycling and disposal of solid waste. Around the world, billions of tons of waste are generated annually, much of it ending up in landfills or incinerators. The future of learning, science, and technology is being shaped by the need to find more sustainable ways to manage waste.

Colloid Engineers and Scientists
We have multiple openings in the area of colloid engineering and chemistry to develop novel inks for electronic ink displays. We desire people with skills in one or more of the following: processes for the production and stabilization of colloidal systems, expertise in the chemical and physical modification of colloidal surfaces; nonaqueous colloids; or the formulation of paints and coatings in highly-loaded systems.

Molecular Electronics Chemist
Develop novel conductive polymers and composites for use in display devices. The successful candidate will have demonstrated ability at the state-of-the-art in the synthesis and characterization of organic-based conductors, semiconductors, and related devices. Ph.D. plus postdoctoral experience in chemistry strongly preferred.

Electrical Design Engineer
Design and build circuits to control displays based on electronic ink. Responsibilities include helping produce product prototypes that utilize electronic ink, involving work in new product design, testing and pilot production support. Good communication skills are desirable. Must have the ability to interact with outside vendors to specify and outsource devices and systems. PC board design experience is a must. Exposure to product engineering and manufacturing methods is also desirable. BS/MEng. preferred.

Product Design Engineer
Design, engineer, and build devices based on electronic ink. We are looking for a creative and energetic hands-on person to help develop new products. Strong skills in product design and development are required, as is knowledge of electronics, materials, and optics. Experience in prototyping and manufacturing is a plus. BS/MS in mechanical engineering or equivalent.

Chemists
Join our research team in developing microencapsulation processes and materials for electronic ink. Background in organic chemistry (synthesis plus characterization). Must be able to work across traditional boundaries, including display construction and evaluation, electro-optical testing, environmental testing, advanced laboratory instruments. Good organizational and communication skills. BS/MS in relevant fields.

Scientists and Engineers
Openings for energetic people in the areas of chemistry, chemical engineering, physics, and materials science. Work closely with our team of chemists and designers to develop electronic ink and novel display products. Wide variety of opportunities, including display construction and evaluation, electro-optical testing, environmental testing, advanced laboratory instruments. Good organizational and communication skills.

E Ink is a highly visible start-up founded by MIT graduates to revolutionize displays and printed media. We are developing novel displays by printing proprietary electronic inks onto all kinds of flexible and rigid surfaces. Our technology has the support of leading corporations and has been described in major publications worldwide. If genuine innovation interests you, we have immediate openings for creative, energetic people in courses 2, 3, 5, 6, 10, 18. and 18.

**Spring Weekend Deemed Success**
Spring Weekend, from Page 1
The International Fair held Friday featured music, food, and a variety of cultures. There were also performances throughout the day by cultural groups.
Other events taking place throughout the weekend included a corn roast, a piano drop, a Whopper Eating Contest, and the Alpha Phi Market.
Mr. Spring Weekend, organized by the Women's Independent Living Group, was a non-student male pageant. According to Jennifer E. Szlosek '01, the competition featured creative categories such as Non-Conformal Evening Wear, Charades, Short Answers Questions, Talent, and Persuasion Abilities.
In the Persuasion Abilities segment the contestants went into the crowd with megaphones for learning in material science and also arriving at the end of novel opportunities to learn chemistry.

E. Szlosek '01, the competition featured creative categories such as Non-Conformal Evening Wear, Charades, Short Answers Questions, Talent, and Persuasion Abilities.
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**E Ink**
This space donated by The Tech.

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Music and Theater Arts Lecturer
Mark S. Harvey and the Aardvark Jazz Orchestra performed pieces by Harvey last Saturday night in Kresge Auditorium.

airline tickets ... new cars... coming soon

GO ahead,
name YOUR price!

It's true! You can name your own price for airline tickets (coming soon - new cars) called priceline.com. Simply call or visit our web site - tell us where you want to go and how much you want to pay. Go ahead!
**Software Developers** There is life outside Cambridge! Join Horizon live Distance learning. one of New York's hottest startups. as a software developer. looking for all experience levels with C++, Java, Perl, and Javascript. in Windows or Unix environments. Visit our site, http://horizon.i0360.com then send your resume. Our CEO is a Sloan grad. all employees .get stock options, salaries are competitive and the product is hot. Come help us sp and ship the new version. Send resume to Steve Kahn, Chief Engineer, at stevek@horizon.i0360.com or fax resume to (212) 533-4578.

**CLASSIFIED ADVERTISING**

**Help Wanted**
The Software Productivity Consortium is looking for Agent Negotiation Technology Researchers:
All Levels: BS/MS/PhD. Career opportunities, Washington, DC metro area. Highly competitive salaries. For more information see: http://www.software.org/pub/job/re search.html. For consideration please forward your resume to Software Productivity Consortium, HR Dept. 21. 2214 Rock Hill Road, Herndon, VA 20170. or e-mail: hr@software.org. or fax (703) 742-7200.

SUMMER CAMP TEACHER'S ASSISTANTS WANTED! The BELL Foundation is recruiting outstanding college and graduate students to work as paid teacher's assistants in our 5-week academic summer camps. If you want to help Black children excel, contact us at 868-1000 x.220.

Get Paid To Party!!! Festive Events is looking for outgoing people to learn the fine art of DJ entertaining. Great source of extra cash. Full training provided! Must have car. Must be available weekends. Call 1-508-885-1095 for more info.

HELP WANTED: Chief Travel Officer. "It's not a job. it's just an adventure." Spend your summer travelling instead of working. No skills or experience required. Apply at www.studentadvantage.com/CTO.

**MIT Dining Services Presents...**

**Spring 1998**

**Culinary Competition**

- Lobdell Dining Room
- Wednesday, April 29
- 11:00 a.m.

We're looking for student judges. If interested e-mail meal@mit.edu
Anna Michel '98 and Jessica Lackey '00 try to right their capsized boat during the Sailing Invitational on Saturday, April 18.

NATURALLY,
WE HAVE HOSPITALITY
AND COMFORT
DOWN TO A SCIENCE.

The proof lies in University Park Hotel at MIT, opening in the summer of 1998 and certain to be one of the area’s most preferred hotels. Here you will find well-appointed guest rooms with state-of-the-art amenities, such as dual telephone lines and data ports. Fine American cuisine and seasonal specialties at the avant-garde Sidney’s Grille. Twenty-four hour room service. And an idyllic outdoor roof garden. Located in the heart of Cambridge academia, the hotel is also conveniently close to both Boston and Harvard Square. We invite you to put our hospitality to the test. For more information or to make a reservation please call 617.577.0200 or fax 617.494.8366.

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20 Sidney Street, Cambridge, MA 02139
e-mail: welcome@univparkhotel.com website: www.univparkhotel.com
Senior portrait sittings
for the class of 1999

May 4-8 (Mon-Fri) 11am to 6 pm

Sign up at our display case outside of 10-100 in the Infinite Corridor.

The $7 sitting fee is waived with the purchase of the book at the special price of $35.

$50 Newbury Comics gift certificates raffled on Monday, Tuesday and Wednesday!
Lady Engineers Win First Place at 'Taco Bowl' Tournament

By Karen Plaut

The MIT Women's Ultimate team came home with a first place win at the "Taco Bowl" tournament at SUNY-Albany this past weekend.

The first game of the weekend was against the tough Brown team that they had lost to at two previous tournaments. Brown tried to stop the lady Engineers with a zone defense, but good movement by the offense, the Engineers won 15-2.

The second game pitted MIT against SUNY-Binghamton. Solid coverage by Alicia Volpicelli '98 kept the Binghamton team from moving the disc too far down the field. MIT won with a resounding score of 15-0.

The third game of the day was against Middlebury. Despite having no warm-up time, MIT quickly took the lead 2-0. With patient handling by Teresa Warren G, Olivera Kesler G, and Karen Plaut G, and aggressive defense, the Engineers won 15-9.

MIT's first game the following day was against Rensselaer Polytechnic Institute. Despite the rain, the offense flowed and the defense effectively protected the end zone as MIT won 15-6 victory.

In the final game of the tournament, the Engineers faced Brown one more time. As the ground got muddier and the disc slipperier, superb plays by Rebecca Thomas G and Etchell Cordero G helped keep the disc in MIT's possession. The Engineers held Brown to only two goals per half, winning by a convincing score of 15-4. The women's ultimate team is looking to keep up the momentum at Sectionals and Regionals in the coming weekends.
MIT Club Squash Team Places Second in League Competition

By Ali Merchant and Chris van Schalkwyk

PhD '96, "We've worked hard throughout the season and we are happy that it paid off," he said.

UPCOMING HOME EVENTS

Tuesday, April 28
Baseball vs. University of Massachusetts, Boston, 3:00 p.m.

Wednesday, April 29
Golf vs. Brandeis University, 1:00 p.m.

Thursday, April 30
Men's Tennis vs. Dartmouth College, 4:00 p.m.

Lila French '99 vaults to victory on Saturday in Steinbrenner Stadium. With the victory, French became the NEW '89 Conference pole vault champion.