How to Be Secure on MITnet

By Daniel C. Stevenson

The addition of dormitories and independent living groups in the MIT computer network greatly increases security threats to students' Athena accounts [see article, page 1]. To protect against these threats, there are several ways users can secure their accounts and files.

The main security threat results from the fact that users' data, including passwords, travel in unencrypted, or "clear" text packets across networks between computers. These data packets, which could contain electronic mail, employment messages, or passwords, can be read by users on other machines.

"My advice to computer users is not to use the network communications (be they on Athena or on other machines) for personal matters," said Stephen B. Lerman, former director of Project Athena. "If people want to communicate privately, they can encrypt their mail using standard utilities available on all Athena workstations."

Choose a good password

"The security of an Athena user's data is based on that user's password," Lerman said. "If a user selects a simple password or gives his password to someone else, there is no real security."

"Change your password often, and choose good passwords," said Gregory B. Hudson '96, vice-chairman of the Student Information Processing Board. Users should also avoid typing their passwords when logged on to Athena over a network, Hudson said, because the password travels as clear text.

If a user needs to telnet to a dialup server, Hudson recommends using telnet - a kerberized version of telnet - which is available for Macintosh computers on the SIPB Appleshare server. This program allows for all the information sent across the network to be encrypted and allows users to log into the dialups without transmitting their password over the network in clear text. However, this option is only available for users running on Macintosh or Linux platforms.

A good password is easy to remember yet also obscure, according to the Athena "Guidelines for Security," Page 11

Loopholes Loom Large in MITnet

By Hung Lu and Eric Richard

"Find me a server dealing with security and privacy issues of MITnet. The expansion of MITnet to include undergraduate dormitories and independent living groups has raised several security issues which many users feel have not been properly addressed. The key here is being an educated user and making intelligent choices about what is a given medium should and should not be used for," said Steven R. Lerman, chair of the Academic Computing Council and former director of Project Athena.

Spring Weekend '94 Events Help Charity

By Amy I. Hsu

Although MIT's annual Spring Weekend is geared toward entertainment and relaxation, it also benefits several charities, including one founded by MIT students.

Spring Weekend '94 began last night with Mr. Spring Weekend, sponsored by the Women's Independent Living Group. Five contests competed in the categories of original dress, talent, question-and-answery, and persuasiveness in soliciting money from the audience. This year's winner, David C. Cho '94, chose the AIDS Action Committee as his charity, "inspired by Jacob White, because he didn't win Big Screw, and I'm taking 6.003."

Today, the International Fair will feature many different booths selling ethnic foods and presenting international dances and songs. The fair, sponsored by the International Students Association, is located in front of the Student Center.

By Amy I. Hsu

Today, the International Fair will feature many different booths selling ethnic foods and presenting international dances and songs. The fair, sponsored by the International Students Association, is located in front of the Student Center, tonight, Alpha Tau Omega, the Interfraternity Council, and the Undergraduate Association are hosting Spring Weekend.

INSIDE

- David M. LaMacchia '96 pleads not guilty to federal wire fraud charges. Page 6
- On The Town returns with complete Boston entertainment listings. Pages 18-19

VOLUME 114, NUMBER 22
CAMBRIDGE, MASSACHUSETTS 02139
FRIDAY, APRIL 22, 1994

UROP Deadline Is Extended to 27th

By Nayan Soo Kim

The deadline to submit summer Undergraduate Research Opportunities Program proposals has been extended from today to Wednesday, April 27. The deadline extension will give faculty and students more time to complete proposals in light of the recent decision for allocating the $1 million infusion to UROP, according to UROP Administrator Debbie H. Shoup.

Students must also complete a new form specifying which weeks they would work; these are due by 5 p.m. Wednesday. The UROP office encourages students to work as many weeks as possible before July 1, before a federal regulation eliminates waivers for overhead costs and employee benefits of UROP projects, making UROPs more expensive to fund.

Still, there is no penalty in the evaluation process for students who can not start work on their summer UROPs in mid-May.

Dean for Undergraduate Academic Affairs Travis R. Merritt said, "If enough students are able to front-load working weeks so that there won't be overhead charges on these weeks, it is possible that the $1 million will cover all the summer UROPs."

The faculty received a memo yesterday that stated the deadline extension and the allocation plan of the $1 million. Merritt said that clarification about the allocation may make professors more willing to accept UROPs.

The $1 million infusion will first be used to cover overhead and employee benefit costs of projects that receive sponsored research money. Then the rest will be used for project and employee benefit costs on projects that receive no outside funding.

This year, the quality of UROPs will be examined more closely, as they are no longer accepted on a first-come, first-serve basis. "What we're hoping is that the million dollars will stretch enough so that comparable judgments will not have to be made," Merritt said.

Hoang Kim/Photo/1994

Spring Weekend Heads Help Charity

Cosmas Ndoli heads for victory in the 98th Boston Marathon held Monday as he runs the last stretch of the race.
The International Committee of the Red Cross said Thursday that more than 100,000 Rwandans may have been killed in the past two weeks of ethnic slaughter and called it "a human tragedy on a scale we have rarely witnessed."

The Red Cross said thousands of Rwandans may have died of exposure, thirst and hunger, and that some have been saved unable to leave the hospitals because to do so would mean death. "They would face the fires of a militia," one Red Cross official said.

Legislation that would prohibit smoking in public places would reap economic savings ranging from $39 billion to $72 billion annually as a result of lower health care costs, premature deaths, less employee absenteeism, and reduced operating and maintenance expenses in buildings, the Environmental Protection Agency projected Thursday. Furthermore, the law would cost less than $5.5 billion annually to implement, the agency predicted in a report. EPA estimated the costs of enforcement as ranging from $800 million to $2.4 billion annually, or less than 3.5 percent of the $85.5 billion if institutions chose to establish separately ventilated rooms for smokers that would tobacco smoke directly to the outside air.

"Cigarettes don't just kill people who smoke—they also kill people who choose not to smoke," said EPA Administrator Carol M. Browner at a joint news conference with Rep. Henry A. Waxman, D-Calif., author of the bill. "We have a responsibility to protect children and adults who choose not to smoke."

The U.S. military action came Thursday from Sen. Sam Nunn, D-Ga., the influential chairman of the Senate Armed Services Committee, which has jurisdiction over the United States and its allies must be willing to escalate air strikes against Serbs until a political solution can be worked out. The 36-year-old U.S. president was held in his strong position to ensure that the United States and its allies must be willing to escalate air strikes against Serbs until a political solution can be worked out. The 36-year-old neighbor of America's leadership and to take a "backdoor" coldfront may slip through our clouds and perhaps even some light precipitation over the northern Great Lakes. By Sunday a "backdoor" coldfront may slip through our clouds and perhaps even some light precipitation over the northern Great Lakes. Cal, author of the bill. "We have a responsibility to protect children and adults who choose not to smoke."

The US president was held in his strong position to ensure that the United States and its allies must be willing to escalate air strikes against Serbs until a political solution can be worked out. The 36-year-old neighbor of America's leadership and to take a "backdoor" coldfront may slip through our clouds and perhaps even some light precipitation over the northern Great Lakes.
Clinton, Gore Use Earth Day Speeches To Defend Record

By Gary Lee
THE WASHINGTON POST
WASHINGTON

Amid criticism that he is not fulfilling his pledge to create the greenest government in history, President Clinton Thursday defended his environmental record in a speech on the eve of Earth Day.

Before a crowd in a Washington park, Clinton received a number of environmental actions the administration has taken, from executive orders to encourage recycling and reduce federal energy consumption to legislation proposing to clean toxic waste dumps across the country.

In addition, "This year, we're asking Congress to pass new and stronger laws to protect our lakes, rivers, and the water we drink," Clinton said. "And we're offering new approaches to get the job done."

In a separate speech, Vice President Gore echoed the defense. The White House's plan to combat global warming is far bolder than President George Bush's, Gore said in remarks at George Washington University, "than a difference an administration makes," he said.

Earth Day — officially celebrated Friday — provides an occasion for environmentalists to take stock of pressing problems and outline ways to combat them. Clinton used last year's Earth Day speech to outline an aggressive environmental agenda, including proposals to elevate the Environmental Protection Agency to department status and reduce greenhouse gas emissions to 1990 levels, as called for in a treaty proposed at the Rio "Earth Summit."

The elevation proposal failed to pass a House vote in January, however, and the administration's climate change plan has come under criticism, too. According to an analysis by two environmental groups issued earlier this week, the Clinton plan will fall short of reaching 1990 levels without additional measures.

"The administration takes strong stands on some environmental issues," said Eric Olsen, a staff attorney at the Natural Resources Defense Council. "But they are not really fighting for their positions. On the environmental front, there's not much follow-through."

Those criticisms are widely, if not universally, shared among environmental groups. In a survey released Thursday by the environmental newsletter Greenwire, 66 percent of respondents gave Environmental Protection Agency administrator Carol M. Browner low marks and many said she lacks vision. In its "environmental report card" issued earlier this year, the League of Conservation Voters gave the White House a "D" on environmental budget levels and a "C minus" for delivering on its promises.

"You hear a lot of pro-environment rhetoric from the administration," said Steve Kretzman, a Greenpeace spokesman. "But you see very little substance to back it up.

House Approves $28B Crime Bill

By Kenneth J. Cooper
THE WASHINGTON POST
WASHINGTON

The House Thursday topped the Senate's $22 billion legislation and approved nearly $28 billion to build more prisons, hire more police and look for criminals longer in an effort to offer to save public ecstasy about violence.

With the politics of House Democrats capitalized on a convoluted legislative procedure that took almost half a year longer than the Senate needed to produce omnibus crime legislation of the sort President Clinton requested last August. The crime bill was sent to a conference with the Senate, 285 to 141.

"The House of Representatives made their intentions clear: Crime will not pay," Clinton said applauding a bill that devotes half of the $28 billion to new prisons, spends about one-fourth on a variety of crime-prevention programs and most of the rest to hire 50,000 police officers.

The House bill, compared with the Senate version, proposes more funding to build prisons and steer young people away from crime but leaves some central police officers.

House version expands the federal death penalty to slightly more crimes, but moderates a politically popular plan to imprison for life officers convicted in federal court of a third violent or serious drug crime.

Democratic supporters said the legislation offered a sensible and politically appealing balance between tougher punishment and effective prevention, but Republican critics dismissed it as not tough enough, particularly on the death penalty. Opposition from a majority of House Republicans made the vote less clear than the 95-to-4 vote to approve the Senate bill last November.

Because more than 90 percent of violent crime is handled at the state and local levels, the $28 billion legislation would try to meet its goals "to control and prevent crime" principally by aiding state governments, said Rep. Charles E. Schumer, D-N.Y., chairman of the House Judiciary Committee on crime and criminal justice.

Kevorkian Trial Opens

THE WASHINGTON POST
DETROIT

Almost four years after he began helping sick people to kill themselves, Jack Kevorkian went on trial here Thursday on a charge of violating a Michigan law enacted specifically to stop his crusade to encourage physician-assisted suicide.

In an opening statement, Kevorkian's lawyer, Geoffrey N. Fieger, told the jury the case involved "a great cause" similar to the worldwide struggle for human rights. But as the long-anticipated trial began to unfold in a basement courtroom in Detroit Recorder's Court, Fieger also mounted a technical defense by claiming that the case should be dismissed because it is being tried in the wrong jurisdiction.

It was a surprising tactic in a trial that Kevorkian has said he welcomed as a way to undermine a law that he holds in contempt and that is already under constitutional assault in three other cases. If convicted, the 65-year-old retired pathologist could face four years in prison and a $2,000 fine.

Kevorkian is charged with assisting the suicide last August of Thomas Hyde, 82, a landscape designer who suffered amyotrophic lateral sclerosis, also known as Lou Gehrig's disease. Hyde was the 17th person Kevorkian helped to commit suicide.

Known as "Dr. Death," Kevorkian was also charged in connection with three subsequent assisted suicides, but those charges were dismissed by judges. One judge held that there is a right to suicide based on privacy guarantees in the Constitution, while two others dismissed the charges on narrow technical grounds.

Justice Rebuts Criticism of Rocky Flats Handling

THE WASHINGTON POST
WASHINGTON

The Justice Department Thursday issued a rebuttal to congressional criticism of its handling of the 1989 investigation of environmental and safety problems at the Rocky Flats nuclear weapons complex.

The operator of the Colorado plant, Rockwell International Corp., paid an $18.5 million fine, the largest hazardous waste fine in history, in 1992 after pleading guilty to 10 hazardous waste and clean water violations as part of a plea agreement.

"This case was not handled perfectly in the sense that any case of this nature with forlorned investigatory and institutional issues is likely to have difficulties," said an 88-page report issued by the department. "Neither of these factors, however, was related to institutional breakdowns or improper political or personal influences."

The report serves as a response to criticism of the case by the Department of Justice's Office of Professional Responsibility, headed at the time by former Rep. Howard Wolpe, D-Michigan, who claimed the plea agreement was too lenient. The Justice Department report said the agreement reflected "an appropriate exercise of prosecutorial discretion," said the report.

The operator of the Colorado plant, Rockwell International Corp., paid an $18.5 million fine, the largest hazardous waste fine in history, in 1992 after pleading guilty to 10 hazardous waste and clean water violations as part of a plea agreement.

The report serves as a response to criticism of the case by the Department of Justice's Office of Professional Responsibility, headed at the time by former Rep. Howard Wolpe, D-Michigan, who claimed the plea agreement was too lenient. The Justice Department report said the agreement reflected "an appropriate exercise of prosecutorial discretion," said the report.

The operator of the Colorado plant, Rockwell International Corp., paid an $18.5 million fine, the largest hazardous waste fine in history, in 1992 after pleading guilty to 10 hazardous waste and clean water violations as part of a plea agreement.

The report serves as a response to criticism of the case by the Department of Justice's Office of Professional Responsibility, headed at the time by former Rep. Howard Wolpe, D-Michigan, who claimed the plea agreement was too lenient. The Justice Department report said the agreement reflected "an appropriate exercise of prosecutorial discretion," said the report.

The operator of the Colorado plant, Rockwell International Corp., paid an $18.5 million fine, the largest hazardous waste fine in history, in 1992 after pleading guilty to 10 hazardous waste and clean water violations as part of a plea agreement.

The report serves as a response to criticism of the case by the Department of Justice's Office of Professional Responsibility, headed at the time by former Rep. Howard Wolpe, D-Michigan, who claimed the plea agreement was too lenient. The Justice Department report said the agreement reflected "an appropriate exercise of prosecutorial discretion," said the report.

The operator of the Colorado plant, Rockwell International Corp., paid an $18.5 million fine, the largest hazardous waste fine in history, in 1992 after pleading guilty to 10 hazardous waste and clean water violations as part of a plea agreement.

The report serves as a response to criticism of the case by the Department of Justice's Office of Professional Responsibility, headed at the time by former Rep. Howard Wolpe, D-Michigan, who claimed the plea agreement was too lenient. The Justice Department report said the agreement reflected "an appropriate exercise of prosecutorial discretion," said the report.

The operator of the Colorado plant, Rockwell International Corp., paid an $18.5 million fine, the largest hazardous waste fine in history, in 1992 after pleading guilty to 10 hazardous waste and clean water violations as part of a plea agreement.

The report serves as a response to criticism of the case by the Department of Justice's Office of Professional Responsibility, headed at the time by former Rep. Howard Wolpe, D-Michigan, who claimed the plea agreement was too lenient. The Justice Department report said the agreement reflected "an appropriate exercise of prosecutorial discretion," said the report.

The operator of the Colorado plant, Rockwell International Corp., paid an $18.5 million fine, the largest hazardous waste fine in history, in 1992 after pleading guilty to 10 hazardous waste and clean water violations as part of a plea agreement.

The report serves as a response to criticism of the case by the Department of Justice's Office of Professional Responsibility, headed at the time by former Rep. Howard Wolpe, D-Michigan, who claimed the plea agreement was too lenient. The Justice Department report said the agreement reflected "an appropriate exercise of prosecutorial discretion," said the report.

The operator of the Colorado plant, Rockwell International Corp., paid an $18.5 million fine, the largest hazardous waste fine in history, in 1992 after pleading guilty to 10 hazardous waste and clean water violations as part of a plea agreement.

The report serves as a response to criticism of the case by the Department of Justice's Office of Professional Responsibility, headed at the time by former Rep. Howard Wolpe, D-Michigan, who claimed the plea agreement was too lenient. The Justice Department report said the agreement reflected "an appropriate exercise of prosecutorial discretion," said the report.

The operator of the Colorado plant, Rockwell International Corp., paid an $18.5 million fine, the largest hazardous waste fine in history, in 1992 after pleading guilty to 10 hazardous waste and clean water violations as part of a plea agreement.

The report serves as a response to criticism of the case by the Department of Justice's Office of Professional Responsibility, headed at the time by former Rep. Howard Wolpe, D-Michigan, who claimed the plea agreement was too lenient. The Justice Department report said the agreement reflected "an appropriate exercise of prosecutorial discretion," said the report.
Editorial Does LaMacchia No Justice

Your April 12 editorial "Software Piracy a Serious Crime" doesn't do that at all. David LaMacchia, the David LaMacchia Defense Fund or its contributors are absolutely entitled to raise as many issues as they like, including legal, political, and moral ones. The public's right to hear both sides of the story is a cornerstone of a free society. Courts have a duty to ensure a fair trial. An unfortunate side effect of the publicity about LaMacchia is a chilling of the press, and that's something we have to be able to say "what would happen if LaMacchia broke any laws?"

I ask people to gaze into a crystal ball and predict the outcome of LaMacchia's case before donating to the fund. In fact, the fund takes no position on the merits of either side's case.

The David LaMacchia Defense Fund was organized to ensure that David LaMacchia '94 gets a fair trial. An unfortunate side effect of your editorial, however, is that people, where laws are made by decisions in particular cases, is that an individual involved in a constitutional test of the constitutionality of legal laws as well as the possibility of impos- sibility of a fair trial.

We encourage those who want more information about the fund to send mail to: The David LaMacchia Defense Fund, c/o OTRM. Page 4 THE TECH.

Funding to Ensure Capable Defense for LaMacchia, Not Assess Guilt

The Tech is wrong to suggest that those raising funds for the defense of David M. LaMacchia '94 "should carefully consider whether they ever let me look over their shoulders; they knew little about, compelling them to invade upon the privacy of their users in order to gain access to their computer systems.

The U.S. Attorney's Office will no doubt seek evidence concerning possible violations of the law. If LaMacchia cannot afford capable defense counsel, more of his interests will suffer. Unrepresented in court, the rights to due process, freedom of expression will also be jeopardized.

Lars Bider G.
I ran the Boston Marathon last Sunday. My goal was to run the entire 26.2 miles. I trained for seven months, but I had never run longer than a half marathon before.

The race started at 9 a.m., and I was one of the last runners to leave the starting line. The atmosphere was electric. I could hear the cheers and see the excitement on the faces of the runners.

As I ran, I thought about how far I had come. I had started running just a few years ago, and now I was running a marathon. It was an amazing feeling.

The hills were tough, but I kept pushing. I remembered why I started running in the first place - to lose weight, get healthy, and feel good.

I crossed the finish line at 3:30 p.m., and I was exhausted. But I was also proud of myself. I had done something that I never thought I could do.

I think running a marathon is a great way to challenge yourself and see what you are capable of. If you set your mind to it, you can do anything.

I would definitely recommend running a marathon to anyone. It's a great way to get in shape, meet new people, and see the sights of a new city.

I hope to run a marathon again in the future. It was an amazing experience, and I can't wait to do it again.
LaMacchia Case Raises Legal Questions of Fraud

By Jeremy Hyton

Second of two parts

Last Friday morning, David M. LaMacchia '95 pleaded not guilty to one charge of conspiracy to commit wire fraud in the Boston federal district court.

Much of the discussion of the case, both in the media and on Usenet, has focused on whether software piracy is right or wrong, and how the government would prove that LaMacchia was involved in pirating software. But lawyers familiar with the case are quick to point out that software piracy is not at issue.

The case will have important implications for "how the principles underlying freedom of speech and of the press will be applied to the world of communications," wrote Harvey A. Silverglate, a lawyer for LaMacchia.

While so much discussion has focused on the legal implications of the case, Professor of Computer Science and Engineering Harold Abelson '73 is concerned that people at the Institute have forgotten about the student at the center of the case.

"They've forgotten that he's a real person. He's a real, 20-year-old MIT junior who's in the middle of a legal fight and he's facing frighteningly serious consequences," Abelson said.

If convicted, LaMacchia could face penalties up to three years in prison and $250,000 in fines.

"I'm really upset at some of the flaming I've been hearing around campus: comments that are extremely strident and also self-righteous," Abelson continued. "I wish that the people who are arguing so rabidly would read the [the consequences LaMacchia faces] and show a little compassion and tact.

The outcome of LaMacchia's case will depend, in part, upon the prosecution's ability to make the wire fraud law, written in 1952 to apply to telephone lines, apply to a case involving computer networks.

The charge that was entered against LaMacchia suggests that the government had trouble finding a specific law that applied to the case. According to Mike Godwin, staff counsel to the Electronic Frontier Foundation, "If you look at the underlying crime, it's not very easy to figure out how his alleged conduct relates to any of them," Godwin said.

"I think the government believes that it would be very hard to prove he was doing it for profit," Godwin said. Instead, the government is using a "general purpose statute" that it turns to whenever the most specific statutes don't seem to fit — and one of them is wire fraud.

"It's relatively easy to make the wire fraud statute fit the crime," Godwin continued.

Instead of proving that copyright violations were committed, the government will need to prove two things to win a conviction of the conspiracy charge, Godwin said.

First, the government must show that LaMacchia worked with at least one other person to commit a crime. Second, the government must show that the crime, which the conspirators intended to commit, meets all the standards for a wire fraud charge.

In a conspiracy case, the prosecution must prove that two or more people agreed to a plan to commit a crime. It must also prove that at least one person took action towards carrying out that plan.

The prosecution must also show that the intended actions of the conspirators exactly match standards for the crime the defendants are charged with conspiring to commit.

"If it's conspiracy to counterfeit, you have to map out all the elements of the underlying crime," Godwin said.

Proving the connection to the underlying crime may be difficult in this case, Godwin said. "Although the wire fraud statute is pretty broad, it's not so broad that it includes the defendant's alleged conduct," he said.

"Normally in either kinds of fraud crimes, there's some delusion. Where's the fraud? Who did he lie to?" Godwin asked.

To commit a fraud, a person must misrepresent him or herself to another person. That misrepresentation must be to the detriment of the other person and the person committing the fraud must gain something of value, Godwin explained.

The indictment prints several files titled README that were placed on the site that LaMacchia ran; it charges that LaMacchia placed them using the aliases "John Gaunt" and "Grimjack,"

One file listed SimCity 2000, Excel 5.0, and WordPerfect 6.0 and said, "If anyone has this stuff, I'll appreciate it." Another warned users that if the existence of the distribution site became known it could be "purged" by the "net cops."

Godwin questioned how important these messages were to the case.

"I'm not sure they are significant at all." The messages do not prove that LaMacchia deceived the software users or that he profited from the distribution of the software, he said.

Free speech issues raised

In a defense primer circulated earlier this week, Harvey A. Silverglate, LaMacchia's lawyer, outlined how the case could affect future cases involving computer communications and freedom of speech.

Silverglate said the case has serious implications for how the government uses the criminal law for computer communications and freedom of speech.

Silverglate said the case has serious implications for how the government uses the criminal law for computer communications and freedom of speech.

David M. LaMacchia '95 and his attorneys meet the press in front of federal court in Boston.
The Graduate Student Council will be nominating

GRADUATE STUDENT REPRESENTATIVES

to

1994-95 INSTITUTE COMMITTEES

in early May.

This is your opportunity to become a policy maker!!!

A partial list of committees:
Committee on Graduate School Policy
Faculty Policy Committee
Committee on the Library System
Committee on Privacy

Applications are available in the GSC Office. The application deadline is Friday, May 6. Questions? Contact Chris Gittins, cgittins@mit, or Stan Reiss, sjreiss@mit.
Your workload just got a little lighter.
Resnet Users Face Greater Data Security Problems

Resnet was designed for secure communications and works other than those explicitly available and can be commonly found on the network. Distributed Computing and Network systems should have made this more of an issue. They told us a little about it, but not enough," said Levitan. "I think that Information Systems should consider informing people about security issues. Many Resnet users said they are not sufficiently informed of the problems. "Indeed, the privacy of a conscious user that 'passes by' on the network ran the snoop program and was able to immediately access all the text and actual text of zephyrgram sent by the sender." Packet snifing is a potential threat on any of MIT's existing networks as well as virtually all networks other than those explicitly designed for secure communications," Lerman said.

Snipping on Athena and MInT

These programs allow a user to read others' files, e-mail, and zephyrgrams as they travel over the network. By default, all data to and from any Athena service other than passwords is sent 'clear text," Lerman said. "Any computer on the MInT network... can examine any data that 'passes by' on the local subject."

Additionally, passwords are not encrypted when a user uses Telnet or File Transfer Protocol to connect to a remote site, as they are when a user logs into an Athena workstation. "If you Telnet, then you are trusted. Anyone who can monitor the [network] can see your password," said Kathy L. Schiller '79, network manager for DCNS, in a meeting with the Residential Computing Consultants. It is not possible to detect snoops who use such utilities. "You can't [find out] if people are sniffing [your data]," Schiller said. "You don't know.

Resnet applications limited. "Resnet is a necessary part of a computing infrastructure that makes it possible for students to do much of their computing in their residence rather than public clusters," said Lerman said.

However, "In the extent that people find that they need to Telnet to get to a service, rather than using a service directly on their personal computer, they are forced to expose their passwords to the network," Jerome H. Saltzer, former technical director for Project Athena. "Connected with the introduction of Resnet, the entire Athena system could have been made available on the MassRack and the PC. That availability would have reduced the problem substantially because passwords would then never leave the owner's workstation. "It is one of the biggest loopholes that they should have worked out before they put the system up," said Rodriguez Newheiser '96, a student connected to Resnet.

Lack of awareness also a problem. Many users connected to Resnet said they were unaware of the security issues involved and that IS never made them aware of the problem.

While security issues were discussed at introductory Resnet meetings held in January and February at each of the dormitories, very few students attended those meetings, Barrow said. Of 16 Resnet users interviewed, only two said that IS had informed them of the issues. The others were either unaware of the problem or were exposed to these issues from other sources.

"When I hooked up to Resnet, they didn't mention anything to me," said Yi-Huei E. Chen '96. "I didn't know about those things. I think [IS] should make people aware.

Many students believe that IS should actively publicize security issues in order for students to better protect themselves. "Somebody will find out about [packet sniffing]. People don't need to know about it," said Anand R. Raghakrishnan '96. "If I don't know about it, then I won't take the proper measures into account."

"People only hear about these issues after the problem has been found and solved," said an RCC who wished to remain anonymous. "There should be some kind of information, because completely hiding it increases paranoia. There needs to be a free flow of information.

Education, technical fines necessary. Many people agree that the best way to deal with the security issues is to educate users about the possible risks so that they can properly protect their data. "Education is always the key to whatever solutions you have," Barrow said. "If people are sleepy, then the crackers will always get in. You can't have a purely technical solution. It has to be a complete solution or there will be a weak link in the system."

"As a general rule, I am in favor of the widest possible disclosure of security holes that are discovered," Saltzer said. "That is the best way to alert users of their vulnerability and also because it is the best way to bring pressure on the system designers... to fix the vulnerability."

"People should know what data is available to the casual observer, and learn to process anything which they feel as much should be able to tell," Akkia said. "If users protect their information, then that limits the ability of attackers to use that information to their advantage."

In addition to educating users, IS is working on solutions to the problem. "As a general rule, I am in favor of the widest possible disclosure of security holes that are discovered," Saltzer said. "That is the best way to alert users of their vulnerability and also because it is the best way to bring pressure on the system designers... to fix the vulnerability."

"People should know what data is available to the casual observer, and learn to process anything which they feel as much should be able to tell," Akkia said. "If users protect their information, then that limits the ability of attackers to use that information to their advantage."

One of the largest sperm banks in the United States is looking for donors.

The goal of the Cambridge California Cryobank, Inc., is to provide high quality sperm for artificial insemination. Requirements include good health, between the ages of 19 to 34, and a 9 to 12 month commitment.

Call for more information: 497-8646

COMPLETE MEDICAL SCREENING (ALL COSTS PAID) AND YOU EARN UP TO $105/WEEK IF QUALIFIED

"A THRILLING SPECTACLE THAT ROCKS THE HOUSE!


Call Now, TOLL FREE 1-800-229-3474

Snipping a zephyrgram

A user (danspot) logged on to an Athena workstation (w20-575-90). The user sent a zephyrgram to a friend (ericocola). Meanwhile, a malicious user on another workstation on the same network ran the snoop program and was able to see the entire contents of the zephyrgram as it traveled across the network. The text and relevant portions of the zephyrgram are shown in bold — the other text and the formatting are the result of the snoop program.

actual text of zephyrgram sent by user danspot

Snipping a login

A user (ian) telneted to a dialup machine (al-forno) from another workstation (w20-575-90). The user's name and password travel as clear text across the network. A malicious user on the same network can snatch the name and password.

(The username and password have been changed for security purposes.) Compiled by Daniel C. Stevenson
Software Developer
Portland, Maine

Casco Development, Inc., a nationally recognized leader in factory automation, is seeking for an enthusiastic, bright person to join our R & D team. You will be working with state-of-the-art tools - CISSIS, 715, OSI Windows and PC LANs. This is your opportunity to work at what you love to do and be recognized for your accomplishments at the same time.

Solid exposure to computer science is required. Experience in graphical programming a plus. A four year degree with a good grade point average, a strong analytical mind and demonstrated organizational skills are a must.

EOE, we offer a generous compensation package with profit sharing. Please send your resume and salary expectations to:

Richard Donon
Casco Development, Inc.
P.O. Box 1037
Portland, ME 04104

Nightline x3-8800
This space donated by The Tech

Help!

Portland, Maine

Boston based consultant for West Coast client needs engineering expertise. Must plot precise interior size and shape of irregular 20" cylinder to permit computerized fabrication of conforming structure. Fee and/or participation.

Send qualifications/resume to:
Dept. EA, Fifth Floor, 437 Boylston Street
Boston, MA 02116

Casco Development, Inc.

Wire Fraud Charge Makes 'Easy Fit' for LaMacchia Prosecution

Pirocy, from Page 6

ous implications for people who operate computer bulletin board systems. Godwin agreed with that characterization of the case.

"It's very clear that ... what they're trying to do is to create a complicity to make him liable for everyone who used that [File Service Protocol] site," Godwin said.

Silverglate questioned whether system operators should be held responsible for everything that users do while logged onto their systems. The Constitution "has long conferred special protection on those engaged in the activity of maintaining communications media," Silverglate said.

Godwin suggested the analogy of prosecuting the Boston Phoenix because some of its adult services advertisements were really fronts for prostitution. "The Phoenix has ads for escort services and massage parlors that the others clearly know are fronts for illegal activities. You'd have to be stupid not to, but no one says that the Phoenix is aiding and abetting," he said.

The question is whether First Amendment protections "should apply fully to those in the print medium," Silverglate said. "Because the law has been slow in coming to the area of electronic communications, there have been relatively few legal tests of the scope of First Amendment protections in cyberspace." Though the law's slow pace in adjusting to changes in technology can be frustrating, Professor Randall Kendall, associate director of the Artificial Intelligence Laboratory, cautioned that the slow pace may be just what is needed.

"There's a long-term perspective that is particularly important, even though it's frustrating when dealing with a fast-moving technology. We should give that long-term perspective its due because people will likely be facing these laws for a long time," Devis said.

Events Will Benefit Many Organizations

Spring Weekend, from Page 1

holding Las Vegas Night. Money raised from ticket sales will go to Childhelp USA, a charity organization that fights child abuse, according to Michael H. Joo '93.

At the same time, the UA Social Committee's Karoke Pub Night will feature a 10-foot video screen and video disc jockey. "It's kind of like a Strat's Rat, except the students are the entertainers," said Acting Chair Rahul A. Gala '94.

Tomorrow, Sigma Chi will host the Spring Intercollegiate Greek Shootout, a basketball tournament between members of fraternities and sororities of MIT, Tufts University, Boston University, and Northeastern University. Proceeds will benefit the Genesis Fund, a charity that helps children with birth defects.

Alpha Phi's "Alpha Phi Market" will raise money for the American Heart Foundation. Participants will perform short acts on the Student Center steps, then stage services such as hair and makeup, nail care, or laundry service, to the audience members.

East Campus's spring picnic tomorrow afternoon will feature several bands: Famous People, the Herman Johnson Quintet, and Good Rain. The food and music are scheduled to last until 9 p.m. this year, since "[the picnic] was going pretty strong up till 8:30 last year," said Daniel D. Hurda '95, East Campus social chair.

At the day draws to a close, Sigma Iota Phi will host "A Night at the Improv" at Lobdell, featuring MIT's improvisational comedy group Roadkill Buffet, as well as groups from Wellesley, Tufts, Bowdoin, Brandeis, and Emerson.

Wire fraud charge makes 'easy fit' for LaMacchia prosecution.
Malicious users can read any data available through "snooping" programs, which use the term "packet sniffing." Using publicly available tools, Nygren said, one could sniff packets from any user's account without that user's permission.

"Never give your password to anyone under any circumstances, especially to people claiming to be systems administrators," said Erik L. Nygren '96, a Course VI-3 major in computer science and a lecturer in the Science Writing Program. "If they are using native applications and not using PGP within the United States, you are doing something illegal. It is legally problematic due to the cryptography patents." Nygren said. She added that her supervisor "was pretty willing to find a way to get me funding."

"I think a lot of faculty members in the Physics Department had cut down on the number of UROPs they planned to have for the summer," said Professor David E. Pritchard, the Department of Physics UROP supervisor. "I think that getting full UROP funding was essential. If I don't get [full funding], there's no UROP." Daigle said that starting her summer UROP right after her final exams would not be a problem. She said that getting full UROP funding was essential. "I think that getting full UROP funding was essential. If I don't get [full funding], there's no UROP."
Top left: All 2.70 machines were subject to checks for dimensions and weight.
Top right: Winner Gaurav Rohatgi '96 (right) and his assistant show off the trophy at the end of the competition last night.
Above: Participants plug in power and air pressure to their machines before competing.
Right: Dave R. Das '96 prepares his machine for competition in the first round Wednesday.
Rohatgi Wins 'RoboSoccer' Design Contest

By A. Arif Husain

After nine rounds of competition before 600 cheering students in 26-100, Gaurav Rohatgi '96 emerged last night as the winner of this year's Introduction to Design (2.70) contest.

In the two nights of competition, Rohatgi's machine bested 189 other robots built this semester by students enrolled in the course.

"The best part of the competition was meeting all the people, helping people out and having them help me," Rohatgi said. "It made me realize how to work with people, and how people feel."

Rohatgi, three semifinalists, and four other students will continue onto the international competition to be held in Tokyo this summer.

The semifinalists were Heather L. Howard '94, Hans J. S. Fedor '95, Abbe J. Cohen '96, and Matthew R. Conway '94. The four other participants, selected by an anonymous panel of judges, were John M. Kerwa '94, Jonathan A. Sheena '94, Abbe J. Cohen '96, and David F. Ackerman '96.

The international competition will include representatives from The Technical University Darmstadt in Germany, the Politecnico di Milano in Italy, and the Tokyo Institute of Technology. Each team will consist of six people, one from each participating country. Thus, the contest will emphasize cooperation and competition, rather than competition between countries, said 2.70 Lecturer Harry West Ph.D. '96.

This is the last year West will coordinate the 2.70 competition. After seven years of dedication to teaching the principles of design at MIT, he will now turn to design work with the Design Continuum.

West received great praise for spreading the idea of the 2.70 competition to a number of foreign countries and for keeping the course on the forefront of design. He was presented with a soccer ball signed by all of his students.

RoboSoccer

This year's project was to play a game of "RoboSoccer." The goal was to propel a soccer ball into a goal at the opposite end of the rectangular playing field. If no goal was scored, the machine that did not have the ball on its half of the field at the end of the match was declared the winner. Each contest lasted only 30 seconds.

The contest started in early March, when each student was given an identical kit of parts. These included items common to mechanical engineering -- motors, springs, cardboard tubes, wood, aluminum bars -- as well as a few less common items -- dice, a mirror fragment, and a blue plastic robot head.

The kits were made possible by contributions from the Department of Mechanical Engineering and over 30 sponsoring organizations, including Ford Motor Company, Polaroid Corp., General Electric, SamTek Inc., Digital Equipment Corp., and 3M.

This year's Introduction to Design contest to a number of foreign schools Delft, Twente, and Eindhoven. They were chosen to represent their institutions in the international visitors. The teams from the Netherlands participated as international visitors. The teams represented the three Dutch technical schools Delft, Twente, and Eindhoven. They were chosen to compete as a result of their wins in a design contest organized by West in Holland last October. Neither team made it very far in the actual competition, but an exhibition match was held between the two teams, and the winner was awarded a trophy.

The contest had an air of informality, with many losing machines advanced to the semifinals. Despite the relaxed attitude from the crowd, the participants could not fight the tension and anxiety as they waited for the results. "I have nothing insightful to say at this point," Sameer Raheja '96 said as he waited in line to compete. "I just hope it fits in the box.

In between rounds, participants and audience members were entertained by the placards, exhibits, and machines designed by lab instructors, outside groups, and former students.

Other schools present

Although the 2.70 contest was mostly an Institute event, other groups were present. Two teams from the Netherlands participated as international visitors. The teams represented the three Dutch technical schools Delft, Twente, and Eindhoven. They were chosen to compete as a result of their wins in a design contest organized by West in Holland last October. Neither team made it very far in the actual competition, but an exhibition match was held between the two teams, and the winner was awarded a trophy.

In addition to the foreign visitors, two local high school students from Cambridge Rindge and Latin High School exhibited their machines.

Above left: John C. Hector '96 and his assistant compete in the first round Wednesday.

Left: Senior Lecturer Harry West Ph.D '86 starts a round of competition last night.

Above right: Hani M. Sailum '96 shows off his machine while waiting to compete Wednesday.
The Arts

Killer’s Bar and Terminal Bar Explore Death Theme

KILLER’S HEAD AND TERMINAL BAR

MIT Theater Arts: student theater workshops.

Killer’s Head written by Sam Shepard
Directed by Kim Marasco.
Starring Tom Stahovich G.
Terminal Bar written by Paul Selig.
Directed by Andrew Kraft ‘95.
Starring Tom Stahovich G. and Jeff Harings ‘95.
Erin Lee Sousa and Sarah Pearlman.

By Craig K. Chang

Get Away with Garber Travel

* Eurail passes
* Cross-country travel
* Lowest prices available
* Airline tickets on all major airlines

Call your Garber Travel agent today!

Software Engineer

Hardware Orientation
Blue Sky Research and Development

The Client Server Storage Division is seeking applicants to participate in the design and implementation of a new SGI project. It will be aimed at dramatically increasing the bandwidth of input and output operations and will provide a framework for the mass storage devices. This is an excellent opportunity to expand your knowledge of computer architecture, with enhancing your software engineering skills designing microcode at the interface of mission critical hardware/software. You will work with leading tools in a group that currently has only two other members. You may encounter advanced technology related to data handling and storage. Your ability to understand the hardware is critical, your ability to understand the software is critical and a skill set that we can help you hone.

Applicants will need a BS or MS in Electrical Engineering and 0-2 years experience with software at the hardware level. We are more interested in your ability to demonstrate your qualities of self motivation, intelligence and your ability to quickly assimilate new concepts and tools.

Please send resumes to: William Blake, c/o EMC Corporation, 65 South St., Hopkinton, MA 01748.
Fax: (508) 487-8777. EMC is an equal opportunity employer.
Khan masterfully performs Indian Classical music

By Adam Lindsay

April 16, 1994

At Krieger Auditorium, Saturday night, a near capacity audience witnessed the Indian Classical music of Ustad Ali Akbar Khan, and the masterful accompaniment of Swapan Chaudhuri.

As the concert began, the audience was treated to a specially composed piece by Swapan Chaudhuri, a strong counterpoint to the classical style of the Indian Sarod. The piece was a slow, intricate introduction to the performance, setting the tone for the evening.

The concert began with a raga, a free improvisation within the structure of the raga. The first piece was the "Raga Madhu-malati," played with a virtuosic display of technique and musicality.

As the performance continued, the audience was treated to a variety of ragas, each with its own unique character and style. The musicians demonstrated their mastery of the sarod, tabla, and other traditional Indian instruments.

The concert was concluded with a finale that left the audience in awe. The musicians played with a passion and intensity that was both thrilling and inspiring.

The performance was a testament to the beauty and complexity of Indian Classical music, and a reminder of the skill and dedication required to master this art form.

Let us help you make a decision you can live with.

Pregnancy Help

159 Washington Street
Brighton, MA 02135

617-782-5151

免费怀孕检测信息转介

指导和关怀

材料援助

所有服务均免费且保密。

The Technology and Culture Seminar and the MIT Technology and Policy Program present

Opening Remarks: MIT President Charles Vest
Moderator: DR. ROBERT WHITE, President, National Academy of Engineering

Speakers:

DR. BRADEN ALLENBY, Research Vice President, Technology and Development, AT&T

PROF. JEAN GROSSHOLTZ, Director, Women's Studies/Politics, Mt. Holyoke College

DR. ROBERT LEMPERT, Critical Technologies Institute, Rand Corporation

DANIEL RABINOWITZ, Environmental Protection Group, Shearman and Sterling

TODAY!!

4:00pm E51-329

GreeN TECHNOLOGY: WHAT? HOW? WHY?

VIPUL KAUSHAL contributed to the report of this story.
Backbeat focuses on Lennon, Sutcliffe interaction

T
ake a look at the Beatles, a group whose mammoth legend is only equaled by the quality of its music. In their eight years of recording, they produced (and shaped) the music that would define much of the 1960s, just as it continues to influence musicians and listeners today. Yet most Beatles fans are influenced by just one aspect of the group's history (Beatlemania, Sgt. Pepper's, Abbey Road medleys) or the cookie-cutter caricatures of the band members themselves (Lennon's pessimism, McCartney's idealism, Harrison's mysteries, and Starr's clownish charm). Too often the group's early history is overlooked; first-time director Iain Softley chooses to offer a different perspective in the film Backbeat.

The year is 1960, and the band from Liverpool is struggling for recognition in the dark, sleazy, smoke-filled clubs of Hamburg. John Lennon (Ian Hart), Paul McCartney (Gary Busey), and George Harrison (Chris O'Neill) are bandmates in a rhythm section. But, as McCartney's character Sutcliffe (Stephen Dorff) comprising the Beatles' first experiences with drugs and the diminishing role of drummer Pete Best within the group. Behind all this storytelling, of course, is the music, and while copyright restrictions forbade use of the early Lennon-McCartney songs in the soundtrack, the audience does get to hear flaming interpretations of many classic rock and R&B covers. Indeed, the new versions of "Money," "Long Tall Sally," and even "Try a Little Love" sound as fresh now as they did 30 years ago.

The acting in the film is better than average. Relative newcomer Stephen Dorff cuts a striking, impassioned image as the artist Sutcliffe, while Sheryl Lee (the Laura Palmer character of Twin Peaks fame) does her best with Sutcliffe's existentially lover, Astrid Kirchherr. Admittedly, the characterizations are overshadowed by the context of the story, and especially by Ian Hart, who plays John Lennon. Even if Hart doesn't capture the complete essence of Lennon, the physical resemblance is pretty amazing, and his witty, eccentric characterisms keep the story afloat. Since the movie focuses on three characters, the rest of the cast falls into the background as supporting players: Richard Bremmer from Twin Peaks fame) gives viewers a unique dose of history for the Beatles, and it may even convert a few non-Beatles fans. When it works, Backbeat gives viewers a unique dose of history and nostalgia to keep them interested. The movie's a nostalgic revelation in itself.
I ly, of an IRA bombing of a British pub in who is convicted, along with friends and fam-

tryal of a young man named Gerry Conlon

delightful characters make for an enter-

prise. All around, ca. Huston are wonderfully motivated as the Addams Family. This plot is suitably comedy and adventure. Early in the film we see what Norman real-

ily likes. When his co-worker asks him an

rect answer before the man can even finish asking the question. Norman reads the penal code, sneakily. At the video store, he tells the clerk that the last 11 seconds have been cut out of the police movie that he rented. Norman Robberson wants to be a cop. He goes close to realizing his dream when Jesse asks him if the police can use his house for a stake-out. Norman is at first hesitant, but after a speech by Stone about how men being the heroes who keep society from lawlessness (this speech tells a lot about both characters, he decides to let them use the house. Although he’s not supposed to in

 chapter in an unpretentious trilogy, this film

direction of Ron Howard, the star-studded

Robertson try to catch the crooks, but the

unsung hero (Sean Connery) to beat the Nazis in tracking

retaliation against England’s tendency to

some serious ones.

To Stone’s surprise, Norman schemes his

returning. This episode focuses on Uncle Fes-

some of the Father

Playing at Loew:

**The Ref**

It isn’t the Fugitive, but The Ref does okay in its own right. Denis Leary plays a cop who leaves the fray to Stone’s family and the family m-

es. Sometimes the acting appears more brain-

number of lowbrow references, pratfalls, and

sometimes the acting appears more brain-

hysteria of the newsroom, and from first sight gags, but nonetheless is a streamlined

Drebin, but he has retired from Police Squad
domestic films with his career-minded wife, Jane Spencer-Drebin (Priscilla Presley). The

Palance style, “I don’t have a lawn. I’ve

some pretty funny scenes.

Ritchie cleverly blends comedy, adventure in Cops

**** Excellent

**** Good

**** Average

**** *Addams Family Values*

This sequel is as funny as the original The Addams Family, with all of the old cast returning. This episode introduces a fourth character, which. Deskin.

COPS AND ROBBERS

*National Lampoon’s Cops and Robbers*

Chase plays the father Glenn Close in yet another mega-bitch

Jersey Chase and Jack Palance are a lot alike, but gradually Stone grows closer to

her. The film’s premise, which

in the midday sun, looking like a farmer

fighting to keep a pair of wild plowhorses on the

some of the new book

Eddy and Stuart, is overplayed in impor-

attracted to Eddy. The film’s premise, which

more brain-dead bureaucracies. Don’t waste your time on slow moving projects and be

and author

of the new book

Eddy’s attempts to stay on top of his predication, despite visits from the couple’s son and various love-ins. The

it’s hard to find anything else in common.

in one respect, the same. The

director who

of the 1969 Nobel Prize in Physics

The QUARK AND THE JAGUAR

Adventures in the Simple and the Complex

(W.H. Freeman and Company, Publishers

THE ARTS

THE TECH

Page 17

THE TECH Page 17

Don’t waste your time on slow moving projects and be

At the museum of Science, Science Park, Boston

at noon on Wednesday, April 27, 1994

**Hot Shot Programmers**: Do You REALLY Want To Be Employee #155969???

Be employee #6 of a software start-up, working on cutting-edge pattern recognition, neural networks, and AI projects!

You must know C (C++) helpful) and be familiar with Unix/ Macintosh/Microsoft environments, and have

We are looking for 1 smart individual with excellent analytical and

Don’t MISS THE BOAT! Send a resume to us at:

Unica Technologies, Inc.

80 Birmingham Parkway

Brighton, MA 02135

Murray Gelb-Mann

Winner of the 1969 Nobel Prize in Physics

Professor Emeritus of Theoretical Physics

California Institute of Technology

Professor of the Santa Fe Institute

Director of the MacArthur Foundation

of the New York

THE ARTS

THE TECH
Berklee College of Music.
The set at Chestnut Hill, Route 9, Suite 203, Chestnut Hill, Boston, April 22, 7 p.m. Admission: $10. Information: 967-3367.

Boston College of Music.
The performance will be held at the Music Center, Boston, April 22, 7:30 p.m. Admission: $10-$15. Information: 553-4151.

Boston Conservatory Wind Ensemble.
Berklee College of Music. Boston Buy your tickets now.

Boston Symphony Orchestra.

Boston College of Music.
The Live at Chestnut Hill, Route 9, Suite 203, Chestnut Hill, Boston, April 22, 7 p.m. Admission: $10. Information: 967-3367.

Boston Conservatory Wind Ensemble.
Museum of Fine Arts. Boston, April 22, 5 p.m. Admission: $10-$12 for this performance. Information: 536-6000.

Boston College of Music.
The educational experience will be held at the Boston Conservatory's Music Center, Boston, April 22, 4 p.m. Admission: $20 for this performance. Information: 536-6000.

Boston Symphony Orchestra.

Boston College of Music.
The performance will be held at the Music Center, Boston, April 22, 7:30 p.m. Admission: $10-$15. Information: 553-4151.

Boston College of Music.
The performance will be held at the Music Center, Boston, April 22, 7:30 p.m. Admission: $10-$15. Information: 553-4151.

Boston Symphony Orchestra.

Boston College of Music.
The performance will be held at the Music Center, Boston, April 22, 7:30 p.m. Admission: $10-$15. Information: 553-4151.

Boston Symphony Orchestra.

Boston College of Music.
The performance will be held at the Music Center, Boston, April 22, 7:30 p.m. Admission: $10-$15. Information: 553-4151.

Boston Symphony Orchestra.

Boston College of Music.
The performance will be held at the Music Center, Boston, April 22, 7:30 p.m. Admission: $10-$15. Information: 553-4151.

Boston Symphony Orchestra.

Boston College of Music.
The performance will be held at the Music Center, Boston, April 22, 7:30 p.m. Admission: $10-$15. Information: 553-4151.

Boston Symphony Orchestra.

Boston College of Music.
The performance will be held at the Music Center, Boston, April 22, 7:30 p.m. Admission: $10-$15. Information: 553-4151.

Boston Symphony Orchestra.

Boston College of Music.
The performance will be held at the Music Center, Boston, April 22, 7:30 p.m. Admission: $10-$15. Information: 553-4151.
I Rotch Library, Friday, April 22-June 3. Opening at MIT Libraries.

"Unlocking Infrastructure." Dr. Charles Mazel and former MIT Professor of Architecture Amir Pasic, held in Twenty Eight East Kingdom. Accompanying narrative will trace the traditions and lore recorded during underwater dives. Matched pairs of historic photos, models, and computer-generated images of underwater dives. One ticket per student, $6 for students, $12 for non-members and children under 12.

"Ancestral Senses: Islamic Art and Architecture in the 9th to 13th centuries." At the Museum of Fine Arts, the exhibition "Ancestral Senses: Islamic Art and Architecture in the 9th to 13th centuries," explores the production of Islamic art between the 9th and 13th centuries, a period of great diversity in the region.

The exhibition, which opens to the public on Friday, April 22, and runs through June 3, features more than 100 works of art, including illuminated manuscripts, paintings, and sculptures, that highlight the cultural, religious, and architectural achievements of the Islamic world.

The exhibition is organized by the Department of Islamic Art at the Museum of Fine Arts and co-organized with the Art Institute of Chicago and the Cleveland Museum of Art. It is the first major exhibition of Islamic art to be held at the Museum of Fine Arts in more than 20 years.

The exhibition is made possible through the generous support of the National Endowment for the Arts and the Andrew W. Mellon Foundation.

The exhibition is part of a larger program of events that includes lectures, workshops, and performances related to Islamic art and culture. The program is designed to foster a greater understanding and appreciation of Islamic art and its significance in the history of art and culture.
it has only four KO's in eight fights and has not fought anyone of note, except his wife. Holyfield's only weakness is that he takes too many punches. Evander should be able to take all that Moore has in the early rounds, and finally see his tremendous stamina to outlast and punish him in the later rounds. With God on his side and Mike out of jail soon, Evander will not lose out on a major payday in '94. Look for The Real Deal in '95.

Incidentally, Moore's wife served Michael with court papers for try to distract her estranged husband. With Diffie's legal woes, it is possible that Moore will walk away from his marriage and possibly even try to get custody of his children. Interestingly, McArthur's wife, Incidentally, Moorer's wife, has to take care of their young children and attend to their household needs while her husband is in jail. It is possible that she might consider leaving her husband and seeking custody of their children.


---

**Beware of the National Scholarship Survey**

A group called the National Scholarship Survey is contacting MIT students through the mail announcing that they are eligible for a scholarship. In order to qualify for that scholarship and to identify other scholarship programs that the students might be eligible for, the group instructs the recipients to complete a questionnaire and to send a $25.00 fee. It has been the experience of the MIT Student Financial Aid Office that these scholarship search offers are money-making schemes for the organizations and rarely provide information to students. Thus, the survey is not already publicly available for free. Calls by the MIT Student Financial Aid Office to the National Scholarship Survey to inquire about their service have not been returned. It is our recommendation that you do not send any information or payment to this group.

Stanley Hudson
Director
MIT Student Financial Aid

---

**SPORTS**

**UPCOMING HOME EVENTS**

**Friday, April 22**
Women's Water Polo vs. Mount Holyoke College, 5:30 p.m.

**Saturday, April 23**
Women's Water Polo vs. Harvard University, 10 a.m.
Softball vs. Wheaton College, 1 p.m.

Women's Water Polo vs. Amherst College, 1:45 p.m.

Women's Crew at New England Women's 8 Regatta, time TBA

Women's Crew vs. Amherst College, 2 p.m.

**Wednesday, April 20**
Softball vs. Coast Guard Academy, 5 p.m.

---

**FINISH THE WEEK WITH A WIN**

You should be spending your vacation dollars on the good stuff! AIRHITCH has helped thousands of students "experience" the wonders of Europe over the last 10 years.

AIRHITCH is the source for student travelers.

Call 800-326-2009 for your FREE program description

Recommended by Let's Go, Consumer Reports, The Washington Post, Rolling Stone...
Mor Cycles to Third Place in Criterium

Cycling, from Page 24

had equal success in the time trial with Jeff Byars G finishing 5th with a very respectable time of 7 minutes 28.2 seconds.

The real action came during the criterium. The criterium was a high speed race held on the streets of West Point and featured tight turns and a steep descent. John Konz G finished with a respectable 13th in the A race, but the real surprise came when Mor seemingly got blocked in for the field sprint during the B race, but then came charging up the left hand side while everyone had their heads turned to the right trying to catch up to a breakaway that occurred earlier. His attempt was unsuccessful, but he still finished 3rd place.

Brian Christensen '94 (left) fires a shot to first to convert on the double play. Although the Engineers made a valiant effort in the last two innings of the game on Sunday, their two-run effort fell short of the victory. MIT lost against Brandeis University, 5-2. Brooks Mendell G (right) pitches in Thursday's game against Wentworth Institute of Technology, MIT lost 8-6.

One Year of College Hebrew in a Summer

Boston's Hebrew College announces its new Mekhina for prospective and current Jewish Studies students and others who wish to build their language skills in a total immersion program.

Session I: July 11 - Aug. 4
Session II: Aug. 8 - Sept. 1
Time: 9 AM - 12:30 PM (Mon. - Thurs.)
Eight Credits (4 per session)

Call Harvey Shapiro, Director, Shoolman Graduate School of Education, at (617)232-8710 for more information.

SUMMER JOB AT M.I.T.

PROGRAMMING A PC-BASED NETWORK AUDIO SERVER

The Speech Communications Group (within RLE, MIT) is looking for a C programmer to implement a PC-based network audio server for use within, the Lab for audio stimulus presentation, data collection, etc. The PC server will communicate with numerous engineering workstation class machines over ethernet in order to play out audio waveforms residing in files on the workstations, and conversely, to record similar waveforms in a laboratory environment and store them on the workstations.

The project entails IPC code development on PCs, VAXes running the VMS operating system, and multiple OSF/1 and Unix platforms, using sockets libraries, realtime hardware and supporting libraries, compilers and debuggers on the various systems. A familiarity with realtime issues on any or all of the above platforms would be a definite plus, as would X11 development experience.

Pay is commensurate with experience and ability.

Contact: Dr. Perkell, M.I.T., Rm 36-591, 253-3223, perkell@speech.mit.edu

M.I.T. Community

Summer Softball 1994

Organizational Meeting Wed. May 4
New Team Entries Accepted

5:30 P.M.

Student Center
Room 407

For more information, contact:
Marino D. Tavarez, MITCSS Commissioner
MIT Rm. 208-131, Messages: 262-9032
MIT Dominates Against Penn

Women's Crew Sweeps 5 Races

Water Polo, from Page 24

...polo teams. The MIT Women's crew team cleared up their race last weekend. The team sent five boats to Worcester last Saturday to race against Williams College, Connecticut College, and Worcester Polytechnic Institute. Three varsity boats need along with two novice boats; all five boats won.

The first varsity eight crossed the line with a time of 7 minutes and 38.84 seconds beating Connecticut College by 5:44 seconds. Williams by 19.38 seconds, and WPI by 1:39.64 seconds. This boat had the best weather for their race suffering only from a 1.05-minute downpour in their warmup. During the race it was cloudy and cloudy.

The second varsity eight ended up with a time of 7 minutes 54.50 beating Connecticut College, their nearest competitor, by 37.46 seconds. This boat had an extraordinary performance by this boat as they faced heavy rain and strong winds for the last half of their race. One rower noted that it felt like the last 250 meters took 60-60 strokes (as opposed to the usual 25). The third varsity boat raced William College and beat them by 37.38 seconds with a time of 9:17.25. The second boat also faced severe weather in the last part of their race. The six seater commented that she felt like the sky opened up in the last 500 meters.

The first novice eight finished with a time of 9:25.44 beating Connecticut College by 8.80 seconds. Williams by 19.37 seconds, and WPI by 1:19.72. The second novice eight beat Williams by 41 seconds with a time of 9:52.00. They defeated Connecticut College by 1:19.00. This boat had an interesting struggle when one of the rowers caught an over-the-head crab during the race. She recovered her seat, but could not manage to get pear seat back in the proper position and consequently rowed part of the race off of her seat. These difficulties did not stop the boat from victorious.

The second novice eight beat Williams by 26 seconds with a time of 10:07.16. They defeated Connecticut College by 1:10.00. This boat had an interesting struggle when one of the rowers caught an over-the-head crab during the race. She recovered her seat, but could not manage to get pear seat back in the proper position and consequently rowed part of the race off of her seat. These difficulties did not stop the boat from victorious.

Varsity women's coach Mayrene Earle said that these were big wins for MIT. "The swee shows the depth of our team from the strongest to the weakest rower. The winter training that we did is really starting to show." She also commented on the conditions, "The conditions were unbelievable. We have never raced in such a strong wind and a severe rain." Next week the varsity row will focus on cleaning up its act. All crews and coaches are looking forward to the New 8 Regatta next Saturday.

MIT scored on their first four goals of the game and went on to dominate the rest of the game, winning 12-7. The MIT defense held Brown to just two goals in the second half, while the offense continued to score at will. The game was a testament to MIT's dominance against Penn State.

Women's Water Polo Non-League Championship begins this weekend at the Alumni Pool. MIT faces Mt. Holyoke College at 5:00 p.m. Friday, and Harvard at 10 a.m. and Amherst College at 1:45 p.m. Saturday. MIT hopes to average earlier losses to Amherst and Harvard. The Amherst game is particularly good; MIT had entered the fourth quarter leading 6-4, only to lose by a score of 8-6.
MIT places third in the varsity heavyweight crew race Saturday.

Heavyweight Crew Falls to Nation’s Best

By Linda Thesis

The heavyweight crew lost to Harvard and Princeton on the Charles last Saturday in the 36th Annual Crew race. Harvard and Princeton are currently considered two of the three fastest crews in the nation. MIT will face both of these crews as it takes part in Eastern Sprints in May. The first varsity boat came off the starting line quickly staying right with Harvard and Princeton through the first 500 meters. MIT was down three seats to Princeton and four to Harvard. MIT stayed in contact through most of the first 1,000 meters. Gradually Harvard moved away from Princeton to take the lead as MIT finished the course in a time of 6:01.2 with Princeton at 6:01.3 and MIT at 6:17.4. “We keep improving each week, but we have a way to go to compete with crews like Harvard and Princeton,” said coxswain Nate Crosswhite ’95.

In the second varsity race, MIT with a time of 6:47.5 lost by 45 seconds to Harvard, while Harvard beat Princeton by less than 3 seconds. The second varsity rowed a strong first 1,000 meters staying close to Harvard and Princeton. At the 500-meter mark, MIT was half a length down on Harvard and three-fourths of a length down on Princeton. Tech stayed in contact until almost 750 meters into the race. “We could have rowed technically better, but we’re improving each week,” said coxswain Peter Yee ’95.

The third varsity race was won by Princeton followed by Harvard and next MIT. The freshmen boat, with a time of 6:42.1, finished 36 seconds behind Princeton and 28 seconds behind Harvard. The second freshmen boat lost to Princeton by 35 seconds; Harvard finished three seconds behind Princeton. The Engineers have a bye next weekend but face Tufts University on April 27.

Sai-Halasz Wins 2nd In Women’s Cycling

By Yehoram Hofman

Last weekend, the cycling team traveled to West Point to participate in the Army Spring Classic. The race consisted of three different events, each with individual classes determined by distance, that were held over a two-day period. It included a very hilly road race, an individual time trial and hill climb, and a high-speed criterium held within the West Point campus. On Saturday, the weekend began with the men’s A-team racing a whopping 75 miles through a very difficult road course. Larry Tsai ’94 finished a respectable 16th, consid-

ers being well held during a very hilly road course, an individual time trial and hill climb, and a high-speed criterium held within the West Point campus. On Saturday, the weekend began with the men’s A-team racing a whipping 75 miles through a very difficult road course. Larry Tsai ’94 finished a respectable 16th, consid-

ers being well held during a very hilly road course, an individual time trial and hill climb, and a high-speed criterium held within the West Point campus. On Saturday, the weekend began with the men’s A-team racing a whipping 75 miles through a very difficult road course. Larry Tsai ’94 finished a respectable 16th, consid-

ers being well held during a very hilly road course, an individual time trial and hill climb, and a high-speed criterium held within the West Point campus. On Saturday, the weekend began with the men’s A-team racing a whipping 75 miles through a very difficult road course. Larry Tsai ’94 finished a respectable 16th, consid-

ers being well held during a very hilly road course, an individual time trial and hill climb, and a high-speed criterium held within the West Point campus. On Saturday, the weekend began with the men’s A-team racing a whipping 75 miles through a very difficult road course. Larry Tsai ’94 finished a respectable 16th, consid-

ers being well held during a very hilly road course, an individual time trial and hill climb, and a high-speed criterium held within the West Point campus. On Saturday, the weekend began with the men’s A-team racing a whipping 75 miles through a very difficult road course. Larry Tsai ’94 finished a respectable 16th, consid-

ers being well held during a very hilly road course, an individual time trial and hill climb, and a high-speed criterium held within the West Point campus. On Saturday, the weekend began with the men’s A-team racing a whipping 75 miles through a very difficult road course. Larry Tsai ’94 finished a respectable 16th, consid-

ers being well held during a very hilly road course, an individual time trial and hill climb, and a high-speed criterium held within the West Point campus. On Saturday, the weekend began with the men’s A-team racing a whipping 75 miles through a very difficult road course. Larry Tsai ’94 finished a respectable 16th, consid-

ers being well held during a very hilly road course, an individual time trial and hill climb, and a high-speed criterium held within the West Point campus. On Saturday, the weekend began with the men’s A-team racing a whipping 75 miles through a very difficult road course. Larry Tsai ’94 finished a respectable 16th, consid-

ers being well held during a very hilly road course, an individual time trial and hill climb, and a high-speed criterium held within the West Point campus. On Saturday, the weekend began with the men’s A-team racing a whipping 75 miles through a very difficult road course. Larry Tsai ’94 finished a respectable 16th, consid-

ers being well held during a very hilly road course, an individual time trial and hill climb, and a high-speed criterium held within the West Point campus. On Saturday, the weekend began with the men’s A-team racing a whipping 75 miles through a very difficult road course. Larry Tsai ’94 finished a respectable 16th, consid-

ers being well held during a very hilly road course, an individual time trial and hill climb, and a high-speed criterium held within the West Point campus. On Saturday, the weekend began with the men’s A-team racing a whipping 75 miles through a very difficult road course. Larry Tsai ’94 finished a respectable 16th, consid-

ers being well held during a very hilly road course, an individual time trial and hill climb, and a high-speed criterium held within the West Point campus. On Saturday, the weekend began with the men’s A-team racing a whipping 75 miles through a very difficult road course. Larry Tsai ’94 finished a respectable 16th, consid-

ers being well held during a very hilly road course, an individual time trial and hill climb, and a high-speed criterium held within the West Point campus. On Saturday, the weekend began with the men’s A-team racing a whipping 75 miles through a very difficult road course. Larry Tsai ’94 finished a respectful-