

## Leaders tell GA they seek to exempt activities from fee

By Burt S. Kaliski

Student government leaders discussed a requirement that student activities contribute to the MIT employee benefits fund at last night's Undergraduate Association General Assembly meeting.

John Mark Johnston '84, chairman of the Student Center Committee, said he was negotiating for removal of the fee which would cost the Student Center Committee alone \$25,000 each year.

"We were told by the Dean's Office not to worry about it; it would be handled," he said, "and it wasn't."

Undergraduate Association President Michael P. Witt '84 said he met with Dean for Student Affairs Shirley M. McBay and MIT Vice President Constantine B. Simonides this week about the fee.

"Federal auditors" require the MIT benefit plan extend to student employees, Witt said, but he is "looking into loopholes for getting around it."

**Libby elected floor leader**

The General Assembly elected David M. Libby '85, co-chairman of the Undergraduate Association Nominations Committee, its floor leader, over James A. MacStravic '84 and Robert A.

Rintel '86.

The 27 representatives at the meeting also elected Ishai Nir '85, Rajesh R. Gandhi '86 and Daniel O'Day '87 members at large to the Executive Committee of the General Assembly. MacStravic and Rintel also ran for those positions.

Kip Dee Kuntz '85 claimed the elections for members at large should not have been held at yesterday's meeting because so few representatives attended, but he did not call for quorum.

Undergraduate Association President Michael P. Witt '84 replied, "The people who aren't here — why are we going to want to elect them to the Executive Committee anyway?"

Only half those attending the two-hour meeting remained at its end.

Libby, in other business, reported appropriations made by the Undergraduate Association Finance Board at its last meeting. The board budgeted \$3556 to the MIT Skydiving Club for new skydiving rigs, he said.

The board also allocated \$1507 to the Black Students' Union toward minority student recruitment. The admissions office has already provided the group more than \$6000 for recruitment, he said.

The Finance Board appropriated  
(Please turn to page 8)

## Faculty discusses Athena, Whitehead

By Burt S. Kaliski

The faculty continued its discussion of Project Athena, and Professor David L. Baltimore '61 reviewed the status of the Whitehead Institute at a regular meeting of the faculty Wednesday.

The Project Athena Committee is "trying to put together the initial environment" for the new computer systems, said Professor James D. Bruce SM '60, director of information systems.

Digital Equipment Corp., one of two contributors to the project, is delivering VT125 terminals and Professional 350 personal computers to be used as color graphic terminals, Bruce said. The company will ship VT100 terminals in late spring.

The initial programming equipment includes a Berkeley UNIX operating system, EMACS text editor, SCRIBE word processor, and FORTRAN-77 and C programming languages, according to Joel Moses PhD '67, panel member and head of the Department of Electrical Engineering and Computer Science.

The Project Athena Committee is working with the Committee on Educational Policy to ensure that the proposals for computer use during the freshman year are

considered equally with those of other departments, said to Gerald L. Wilson '61, chairman of the committee and dean of the School of Engineering.

"We've been discussing the right time to bring students on the committee," Wilson said. The committee is already considering nine students for three openings, and awaits recommendations from the Undergraduate Association Nominations Committee.

The Project Athena Committee will restrict use of word processing facilities when they become operational in April or May, Wilson said. "If every student who had something to write used Athena," he said, the use would overload the system.

The first floor of Building 11 will contain terminals and several VAX-11 minicomputers, Wilson said. Other terminals will be located in Buildings 66, 38 and 37, and in Building 34, with offices for Project Athena staff.

Personal computers donated by International Business Machines Corp. will run UNIX by March and be organized into local area networks with IBM 4341 mainframes as file servers by September 1984, Wilson said.

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## Diseased hamsters flee Yale lab

By Simson L. Garfinkel

Three hamsters injected with a "potentially dangerous sample" of Creutzfeldt-Jakob disease escaped from the Yale Medical School Department of Epidemiology research laboratory Oct. 3, according to the Yale Medical School Public Information office.

Creutzfeldt-Jakob disease is an inherited degenerative neurological disorder which causes a presenile dementia and affects one out of a million persons in the population, the office said.

Although little more is known of the disease, there is extensive experimental evidence that it is "not transmitted animal to animal via scratch, bite, feces or urine," said Edward Adalburg, provost for the Department for Biosciences at Yale.

The three animals escaped from their cage in the research lab by pushing off its lid, *The Yale Daily News* reported. The lid had been autoclaved for a full hour instead of a 15-minute period recommended by its manufacturer, causing it to warp. The lab-

oratory is now seeking funds for better cages, according to an Oct. 17 article in the *News*.

The hamsters have yet to be found, said Marjorie Noyes, Yale Medical School director of public information, but it is unlikely the animals could escape the facility and enter the rest of the building — or leave the building — due to several automatic security systems.

"There is a strong belief that they've been autoclaved," she proclaimed. Stores of animal bedding and waste, into which hamsters were likely to burrow, were autoclaved and incinerated after the animals were reported missing.

The hamsters are definitely "not loose in the building," she said.

**MIT: Similar incident unlikely**

MIT also uses animals in its experimental research, but it is unlikely a similar incident could occur at MIT, according to Dr. James G. Fox, director of the Division of Comparative Medicine.

An experimental protocol must be planned and fully written out before undertaking an experiment involving infectious organisms at MIT, Fox said. The protocol must then be reviewed and approved by the members of the division.

A biohazard specialist for Environmental Medical Service, a peer review group, must then review the protocol, he said. A risk factor assigned to the experiment is used to determine where the animal will be housed during the experiment.

Experiments that warrant containment, or are potentially dangerous to the environment, are conducted in clean-room facilities, designed to biologically isolate the contents of the room from the outside environment, Fox said.

MIT has facilities for safe examination of the effects of deadly viruses in animals, he said, although virus testing is not a primary use of animals by the Divi-

(Please turn to page 2)



Tech photo by Omar S. Valero  
Associate Professor Jean Jackson discusses her recent journey to El Salvador and Nicaragua. Interview, page 13.

## Report details Athena plan

By Daniel Crean

The Institute will have to raise \$20 million for Project Athena over the next five years, according to a report titled "An Introduction to Project Athena" released by the Project Athena Committee this week.

"Approximately one-fourth of these funds have been pledged by individual and corporate donors," the report says.

Digital Equipment Corp. and International Business Machines Corp. will donate about \$50 million worth of equipment, service,

and support for the project.

"Athena is based on the hypothesis that the imaginative use of an interlinked network of computer workstations can greatly enhance the quality and effectiveness of our educational program," the report says.

The first phase of Project Athena is scheduled for completion by August 1985, at which time the second phase will begin, the report states.

The School of Engineering will use computers provided by Digital and MIT's other four schools will use IBM computers. The system will join small, local clusters into a "campus-wide computer-to-computer communications network."

The report emphasizes the "coherence" of the Athena network. "Software is rarely transportable from one user community to another," the report says, but Project Athena seeks to "remove these incoherencies, so that the transfer of information and programs" would be more free.

Programs written for one segment of the system could be used anywhere else in the system, the report says.

That coherence restricts the flexibility of local computers, the report admits, but that restriction is justified by an increased ability to transfer information. All programmers in the network will be required to "observe coherence" in their software, it says.

IBM will provide a "distributed system most probably based on 500 PC/XT personal computers," which will be organized in five to eight local networks during the first phase of the project. An IBM 4341 mainframe computer will support each local network.

Digital's equipment will include "300 terminals connected

to 63 networks VAX 11/730 and VAX 11/730 minicomputers."

Both companies will provide some technical staff for the project, although "support staff will be recruited from staff presently employed in the MIT community" whenever possible, the report says.

Current plans call for the installation of many of the computers this semester. All facilities in the first phase should be operational by August, the report says.

Subjects based on Athena development projects will begin in September and the system will be "available to interested undergraduate students and faculty" at about the same time.

The second phase of Project Athena involves the expansion of the system installed in the first phase. The Institute will receive 2100 additional workstations and backup hardware during the second phase.

The hardware will include equipment still being designed by Digital and IBM, according to the report. Access to the system will be spread more widely across campus and into living groups during the second phase.

### inside

SCEF publishes guide of course. Page 7.

The rain in brain goes mainly off the sane. Page 9.

# Diseased animals escape from Yale

(Continued from page 1)  
 sion of Comparative Medicine.

Animals are used instead for studies of nutrition, toxicology, neurology, psychology and behavior, Fox said. The clean-room facilities at the laboratory are used primarily to prevent outside organisms from entering, not to contain test organisms.

The division performs very little work with viral infections in animals, with the exception of low-level infections such as salmonella, Fox said. "Very little infectious diseases are studied here."

It is "virtually impossible" that an animal being studied could escape from its cage, claimed R. Winslow Poor, manager of the Division of Comparative Medicine's animal facilities. "There is no chance at all anything could escape," he said.

Every animal cage at MIT has a metal cover, not a plastic cover which could warp from excessive heat, and primate cages are padlocked, he explained.

Were an animal to escape from its cage, it would still be confined to a closed room, Poor said. Those containment rooms are carefully monitored and have no hidden exits, such as false ceilings or uncovered air ducts.

Any animal that escaped from a containment area would have to go through many closed doors to get into the main building, and many more to get outside, he said. Laboratory staff members take a daily inventory of animals in each animal room and compare it to an official list, he said.

No animal has escaped in the history of the facility, Poor said.

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# news roundup

## World

**Americans receive Nobel prizes** — The 1983 Nobel Prizes in physics and chemistry and the Nobel Memorial Prize in Economic Science were awarded this week to four Americans. Gerard Debrue, professor of mathematics and economics at the University of California at Berkeley won the economics award. The prize in chemistry went to Henry Taube, a professor at Stanford University and a pioneer in modern organic chemistry. William A. Fowler and Subrahmanyam Chandrasekhar shared the prize in physics for their research into the birth and composition of stars.

**Pass Go, collect \$10,000** — Greg Jacobs, a 32-year-old real estate agent from Perth, Australia, won this year's Monopoly world championship in Palm Beach, Fla. Jacobs won \$10,000 in real money for his efforts by defeating national champions from Peru, Austria, Venezuela and the United Kingdom when his holding of Boardwalk and Park Place forced his opponents into bankruptcy. The British champion, 14-year-old James Mallett, shook hands with Jacobs, then broke into tears.

## Nation

**Senate approves holiday honoring King** — The US Senate passed a bill Wednesday to create a federal holiday honoring slain civil rights leader, the Rev. Dr. Martin Luther King Jr. President Ronald W. Reagan said he will sign the bill which declares the third Monday in January a legal holiday beginning in 1986. The bill passed despite opposition led by Sen. Jesse Helms, R-N.C., who accused King of being a communist. Helms sought unsuccessfully to gain access to FBI records of wiretaps of King's phones from 1963 to 1968.

**Digital stock plummets** — Digital Equipment Corp. stock dropped 32 points this week on the New York Stock Exchange after the company announced its first-quarter profits would be substantially lower than expected. Profits for the quarter ending Oct. 1 are expected to be between 25 and 35 cents a share, about 70 cents lower than previously anticipated. The plight of Digital, the nation's second largest computer company, follows dramatic drops in the value of stock in Apple Computer Inc. and Prime Computer Inc. after those companies announced lower projected profits.

**AT&T plans \$5.2 billion write-off** — American Telephone and Telegraph Co. announced plans this week to write off \$5.2 billion from this year's earnings as part of its transformation from a regulated monopoly to a competitive company. The write-off, the largest in corporate history, is expected to make the company more attractive to investors since future earnings will come from a smaller asset base. AT&T will be able to sell new stock at higher prices and borrow money at lower interest rates than when it was treated as a utility.

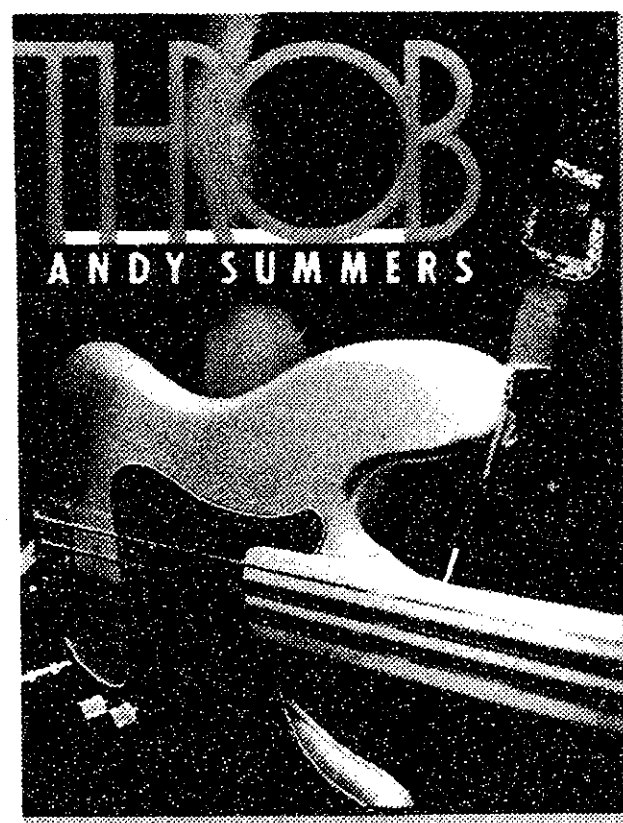
## Weather

**Cloud and clear** — Today will be cloudy, with high temperatures in the upper 40s. The weekend promises fair weather, with high temperatures in the 50s and near freezing temperatures at night.

Ben T. Tien

# MEET

## POLICE GUITARIST ANDY SUMMERS



Andy Summers will be in person at the Harvard Coop in Harvard Square Monday, Oct 24 from 12:30 to 1:30 In the Book Dept., Street Floor.

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# Opinion

Column/Peter Merkle

## Don't panic, there's always law school

After four wonderful years here at Charles River Community College, many seniors will be taking the dreaded leap into the Real World, but not before facing one final ordeal: the job interview.

The job interview is similar to most activities pursued by MIT undergraduates in one important respect: One can fake a job interview just as easily as one can fake a required course in senior year.

Signing up for the interview (registering for the course), creatively embellishing the resume (submitting recycled problem sets), and arriving ten minutes early to research the company (reading ten chapters of thermo the night before the final) are skills essential to getting a diploma as well as obtaining gainful employment.

The analogy is not quite perfect, however. The actual face-to-face confrontation with the interviewer remains. Bear in mind that many interviewers are alumni, and may not be entirely free of prejudice as regards your sex, major or choice of living group. There is nothing like having your interview start with, "Let me see, isn't yours the fraternity that gives pledges peanut-butter enemas?"

Unlike problem sets and exams, interviews such as the latter cannot be punted once they have begun. Apologetic mumbling, sweaty silences and general agony will characterize the remainder of your chance at big bucks.

A good trick to use in tight spots is to get the interviewers to talk about themselves. They won't remember much about you in particular, but will remember having a marvelous time interviewing you, which is all that matters. It is a good idea to go into minute detail about your extracurricular activities, such as membership in the Dave Douglas Fan Club, if you are at a loss for words.

Any of this sound familiar? Do not panic, seniors. Work is boring and there is always law school. More likely than not, you, too, will get that lovely little letter with all the big numbers in it before graduation.

So don't sweat your next interview. Who cares if you make a complete fool of yourself in front of somebody with your entire future in their hands? James Watt did the same in front of millions of people every day, and he'll probably have a job before you do.



Column/Stewart Cobb

## Nuclear technology amoral; voters should reject the ban

"Guns don't kill people — people kill people."

One would think that, at an institution like MIT, everyone would understand technology: not the hardware, not the engineering, but the philosophy of technology. Unfortunately, as the running debate about the referendum on the Nuclear Free Cambridge Act has shown, such is not the case.

There is a proposal on the Nov. 8 ballot in Cambridge to make the city of Cambridge a "nuclear-free zone." The act would prohibit "the research, development, testing, evaluation, production, maintenance, storage, transportation, and/or disposal of nuclear weapons or the components of nuclear weapons" in Cambridge.

The act appears to be aimed primarily at getting the Draper Laboratory — which designs, among other things, guidance systems for nuclear missiles — out of Cambridge.

The idea behind the act is that

nuclear weapons, and the technologies they employ, are immoral and therefore can and should be banned from Cambridge. This is obviously fallacious. Technologies by themselves are neither moral or immoral. Morality applies only to the actions of human beings.

The quotation above this column, popularized by the National Rifle Association, is a concrete statement of the principle that technology *per se* is amoral. This quotation has often been ridiculed by knee-jerk liberals; nevertheless, it is true. A gun is a tool for delivering kinetic energy. That energy may be used to blow the tires off a car, to blow the lock out of a door, or to blow a man's brains through the back of his head.

A target is selected, not by the gun, but by the person behind it. That person is responsible for the morality of his actions. The gun is merely a tool he uses to carry them out. This is true not just for guns but for all weapons — in

fact, for all technological devices, from the club to the computer.

Inertial guidance, a specialty of the Draper Laboratory, is a technology like any other, and is amoral like any other, as are the technologies of rocketry and nuclear engineering. Each has its peaceable, beneficial — and highly moral — uses. I use the word "moral" to mean "contributing to individual and/or racial survival."

The three technologies can be combined, however, to produce nuclear missiles, the use of which may be immoral by the above definition.

The liberals of Cambridge have decided that the use of nuclear missiles is immoral, hence the weapons themselves are immoral, hence the technologies used to make them are immoral, and hence those technologies should be banned. Let's take these points in order.

(Please turn to page 6)

# The Tech

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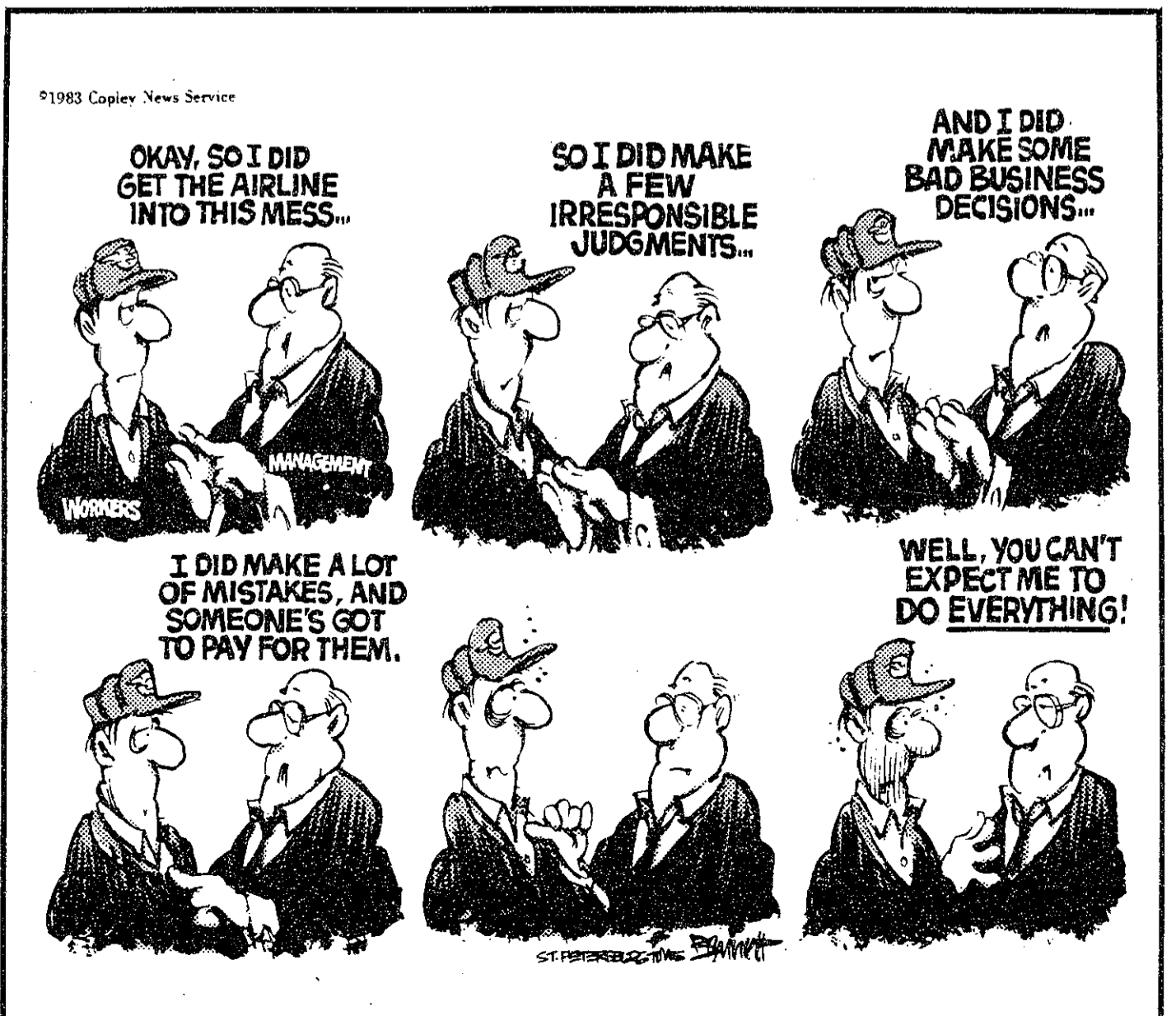
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# Opinion

## feedback

### Nuclear-free act author answers its opponents

To the Editor:

As one of the attorneys who helped draft the Nuclear Free Cambridge measure, I was astonished to learn of the First Amendment objections that have been raised by some opponents of this law.

All a person needs to do is read the text of the measure to conclude that the opponents' assertions as to possibly unconstitutional applications of this law are pure fantasy. Section 6 specifically provides as follows: "Nothing in this Act shall be construed to prohibit or regulate ... basic research, the primary purpose of which is not to work toward the development of nuclear weapons." Thus, the act explicitly protects all research other

than that directed toward the building of nuclear weapons. In the face of such clear language, how anyone can imagine that a person's freedom of expression would be curtailed is nothing short of preposterous. In effect, the opponents are asserting the untenable notion that a person has a First Amendment right to build nuclear weapons.

The arguments raised by the opponents of the Nuclear Free Cambridge measure are so specious that one must see them for what they are: desperate, bad faith attempts to deter the voters of Cambridge from addressing the true issues. If the opponents want to develop nuclear weapons in Cambridge, let them say so, not cast their arguments in phony First Amendment or academic freedom language.

I am confident that Cambridge voters will not be fooled by any smoke-screens raised by the opponents of Ballot Measure 2.

Mark C. Cogan

Lawyers Committee on Nuclear Policy

### MIT cheers helped this runner

To the Editor:

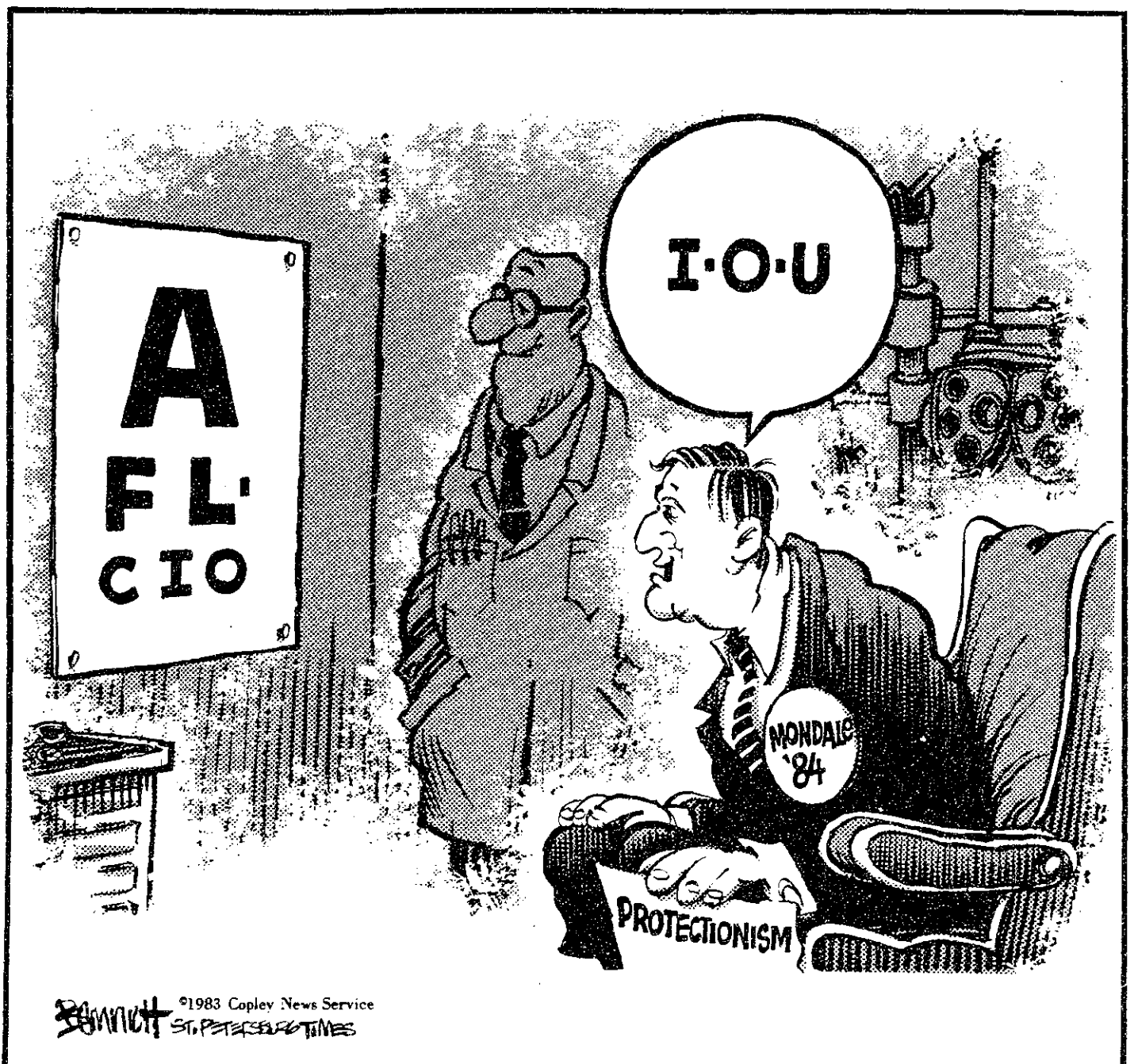
I was one of the 7700 or so women who ran by MIT during the Columbus Day Bonne Bell 10-kilometer race this year. I'd like to say thanks to whoever set up the booming stereo system — it really perked me up to hear some good, loud music. Thanks, too, to the fraternity which was out cheering in force, and to all the other MIT people who lined the route. To a 9:30-a-mile runner, hearing an encouraging crowd was a very special experience.

Sharon Gartenberg

The Tech's opinion pages exist to provide a forum for commentary on issues of concern to the MIT community — not only the views of the editorial board or individual staff members, but also the opinions of members of the broader MIT community.

The Tech endeavors to print all letters to the editor contributing to discussion of issues relevant to the community. Letters written to promote specific events or activities are not printed: The opinion pages are not a bulletin board for free advertising by groups or individuals. Comments on the coverage, content, or editorial position of the newspaper are encouraged. In no instance does The Tech refuse to print a letter because the editorial board does not agree with the author's views. Letters violating standards of decency and appropriateness, however, are not published.

All submissions should be typed, double spaced, and bear the authors' signatures. Unsigned letters will not be printed, but authors' names may be withheld at the editor's discretion upon request. The Tech reserves the right to edit or condense all letters.



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# opinion



## Faults the nuclear-free referendum

(Continued from page 4)

First is the notion that the use of nuclear weapons is immoral. Keep in mind the definition of morality above. A country is morally justified in using a nuclear weapon against another country in only the same circumstances in which a person is justified in using a gun against another person: when the country or the person is in immediate danger of death if he does not. Even then, only the minimum force necessary to remove the danger should be applied: for example, shooting your opponent's gun hand rather than his heart.

It is difficult to think of circumstances which would justify the use of nuclear weapons, and most people would rather not try: still, the case is not closed.

The chain of reasoning supporting the nuclear-free proposal starts to fall apart at the next logical step: that nuclear weapons themselves are immoral. A nuclear weapon is a tool for delivering energy, just like a gun or a club, only larger. It is subject to the same moral considerations as is a gun. The person who uses the tool is responsible for the morality of his actions.

The idea that follows — that the technologies used to make nuclear weapons are immoral — is absurd. The design and construction of a nuclear missile requires technologies from virtually every discipline taught at MIT. To support this idea requires that one condemn the entire Institute as a monolithic war machine.

The nuclear-free act supposes the government has both the right and the duty to ban the allegedly immoral technologies used to make nuclear weapons. The logic is again faulty: no government can legislate morality and none should try.

Finally, the recent quibble over the meaning of the word "evaluation" and other phrases demonstrates that the meaning of the act is not clear but is open to interpretation. Quite apart from any considerations of right or wrong, an act which is badly written is a bad act.

Many Cantabridgians and many MIT students support the referendum. Those who do should reconsider: The referendum is poorly reasoned and poorly written.

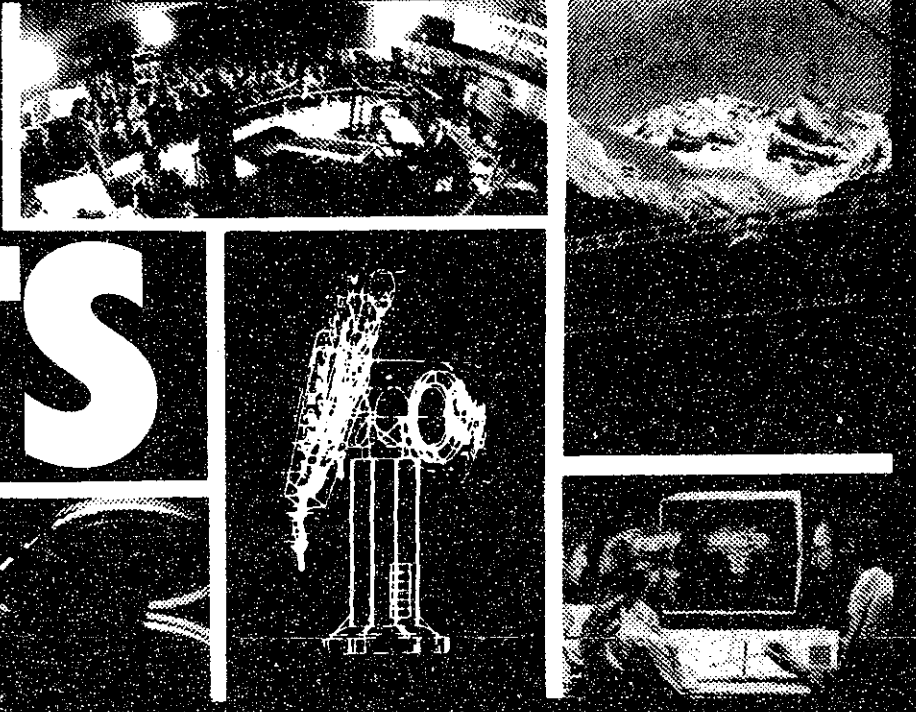
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# SCEP prepares course guide

By Paul Duchnowski

The fall issue of the *Course Evaluation Guide*, published by the Undergraduate Association Student Committee on Educational Policy, should be available Dec. 5 and will be distributed in Lobby 10 along with registration material, according to Steven E. Barber '84, chairman of the committee and editor in chief of the guide.

The Office of the Provost contributed \$10,000 and the Undergraduate Association budgeted \$5000 toward production of the guide, Barber said. The provost's contribution this year replaces \$6000 provided last year by the deans of the School of Engineering and the School of Science.

The change was made to facilitate funding the activity, said Professor Frank E. Perkins '55, associate provost. The money from both sources last year came from unrestricted Institute funds, but the committee had to spend more time collecting the funds, he said.

The target budget for the new guide was originally \$20,000, Barber said. The committee has made no final decision on how to obtain the remaining \$5000, he said, but is determined to stay within the funds provided and does not expect a deficit.

The Office of the Provost has made the following suggestions to the group on how to avoid a deficit: sell advertisements in the guide, use lower-quality paper and printing, reduce the number of copies printed, and charge for the guide, Perkins said.

The committee has considered each recommendation and may eventually implement some, Barber said.

ber said. The group does not want, however, to put a price on the guide and would much prefer to distribute it as widely as possible, he said.

This new issue will be in essentially the same format and content as that released last spring. It will include student ratings and comments on courses and teachers, Barber said.

The committee expects to print about 180 subject evaluations in the guide, including all freshman core requirements, many humanities distribution subjects, most departmental requirements and a number of elective courses, he said.

No subjects from the Department of Mechanical Engineering will be included because that department already prepares its own evaluations, Barber said.

Several departments asked the committee to evaluate more courses than will be included in

this issue, he said. A shortage of workers prevented the committee from expanding the guide. The committee needs students to read and summarize student comments, he added.

Many students use the guide to select their courses, Barber said. Comments about the guide that the committee receives indicate many students find it very helpful making an informed decision about their choice of subjects.

Some professors have altered the style of their subjects based on the opinions expressed by the students in the publication, he said.

The committee is currently discussing Project Athena and its effects on the educational environment at the Institute. The group is particularly concerned that the project may only result in more crowded terminal rooms, but has not yet reached a final opinion, Barber said.



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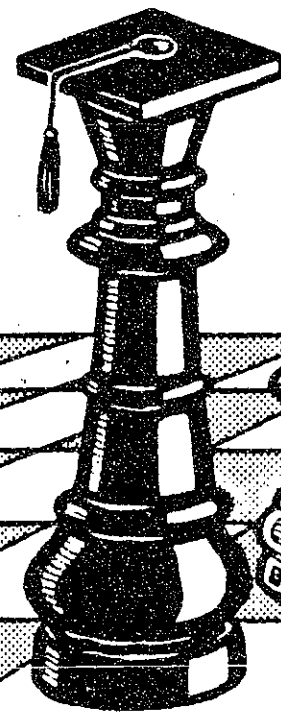
subsequently Project Manager, then

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## notes

Friday, Oct. 28

The Uglyest Man on Campus contest begins today. Sponsored by Alpha Phi Omega, the UMOC contest proceeds will go to the Greater Boston Diabetes Society; votes are a penny apiece, and may be cast in Lobby 10 throughout the week. UMOC candidates are still needed—contact Paul Chernoch, x3-3788.

Tuesday, Nov. 1

Seniors who wish to apply for graduate work in the Department of Electrical Engineering and Computer Science during 1984 are urged to apply by Nov. 1. Applications may be picked up in rooms 38-444 and 3-108.

Friday, Nov. 4

Harvard University's Eliot House will present An Evening with Champions, a figure skating exhibition to benefit the Jimmy Fund and its fight against children's cancer. During its 14 years, the exhibit has become an internationally acclaimed showcase for skating's champions. For schedules, ticket prices, and information, call Deb Taft, 498-2375 or Doug Zeghibe, 498-2343.

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# Faculty discusses Athena, Whitehead

(Continued from page 1)

The Institute may take non-exclusive licensing on software developed during the project and collect some of the royalties on programs sold by faculty members, Wilson said.

## Whitehead faculty to teach

"In a few years [the Whitehead Institute] will be such an integral part" of MIT that no one will consider it as separate, said Baltimore, director of the Whitehead Institute.

## Libby new GA leader

(Continued from page 1)

ed \$1500 for *Technique*, matching a grant by MIT President Paul E. Gray '54, to produce a 50-page centennial supplement to its 1984 edition.

"We have about \$60,000 sitting in the bank" as invested reserve to supplement funding by the Office of the Dean for Student Affairs, Libby said.

Raymond E. Samuel '84, chairman of the Finance Board, said, said the Undergraduate Association should distribute its own newsletter, instead of paying \$2500 yearly for the "UA News" in *The Tech*.

"I'm not quite sure the effectiveness we got out of it was worth the investment we put into it," he said.

The General Assembly also formed 12 *ad hoc* committees to investigate several campus-wide problems identified by students.

The committees plan to examine increases in library fees, pornography on campus, the MIT employee benefits fund, the Institute's financial aid policy on outside scholarships, the "UA News," and bus service to New York City for Thanksgiving break.

Other committees will study the faculty advising system, student-faculty relations, installation of a banking machine on campus, a travel agency for students, an additional doughnut stand, and public transportation on campus.

Libby said he expects reports from the committees by the next General Assembly meeting, Nov. 3.

The MIT faculty decided last year to allow only joint faculty-level appointments with MIT at the biology research lab, he recalled. Those appointed would then be required to teach at MIT.

The Whitehead Institute and the Department of Biology are searching for four junior faculty members, Baltimore said. All appointments to the senior faculty have been made.

The Whitehead Institute will participate in the Undergraduate Research Opportunities Program and hold seminars in microbiology, Baltimore said. It has petitioned the Internal Revenue Service to change its status from an operating foundation to an educational institution.

Approximately 100 faculty members attended the meeting. Michael P. Witt '84, who as Undergraduate Association president granted speaking privileges at faculty meetings, was absent from Wednesday's meeting.

Student activities, administrative offices, academic departments, and other groups — both on and off the MIT campus — can list meetings, activities, and other announcements in *The Tech's* "Notes" section. Send items of interest (typed and double spaced) via Institute mail to "News Notes, *The Tech*, room W20-483," or via US mail to "News Notes, *The Tech*, PO Box 29, MIT Branch, Cambridge, MA 02139." Notes run on a space-available basis only; priority is given to official Institute announcements and MIT student activities. *The Tech* reserves the right to edit all listings, and makes no endorsement of groups or activities listed.

## Friday, Oct. 21

Freshmen are reminded that **Freshman Evaluation Forms** must be given to instructors by Friday, Oct. 21. If you have questions, contact the Undergraduate Aca-

ademic Support Office, x3-6771.

\* \* \* \*

The Black Rose Lecture series will present a slide show/talk by the Boston Clamshell Alliance on **New England's Energy Future**. The program is free and will be held in room 9-150, at 8 p.m. For more information, call 492-6259.

## Saturday, Oct. 23

Consumer advocate **Ralph Nader** and Justice of the West Virginia Supreme Court of Appeals **Richard Neely** will speak on **Ethics in American Law: Consumer Activism and Judicial Activism**, at 8 p.m. in the Alumni Auditorium of Northeastern University, 360 Huntington Ave., Boston. The lecture is offered as part of the Ford Hall Forum; for more information, call 338-5350.

\* \* \* \*

The U.S. Department of Health and Human Services, in an effort to better inform the public about its activities (AIDS, teenage alcoholism, runaways, etc.), will hold a college media seminar in Room

## notes

2003 of the JFK Federal Building in Boston from 9 a.m. to 12:30 p.m.

## Monday, Oct. 24

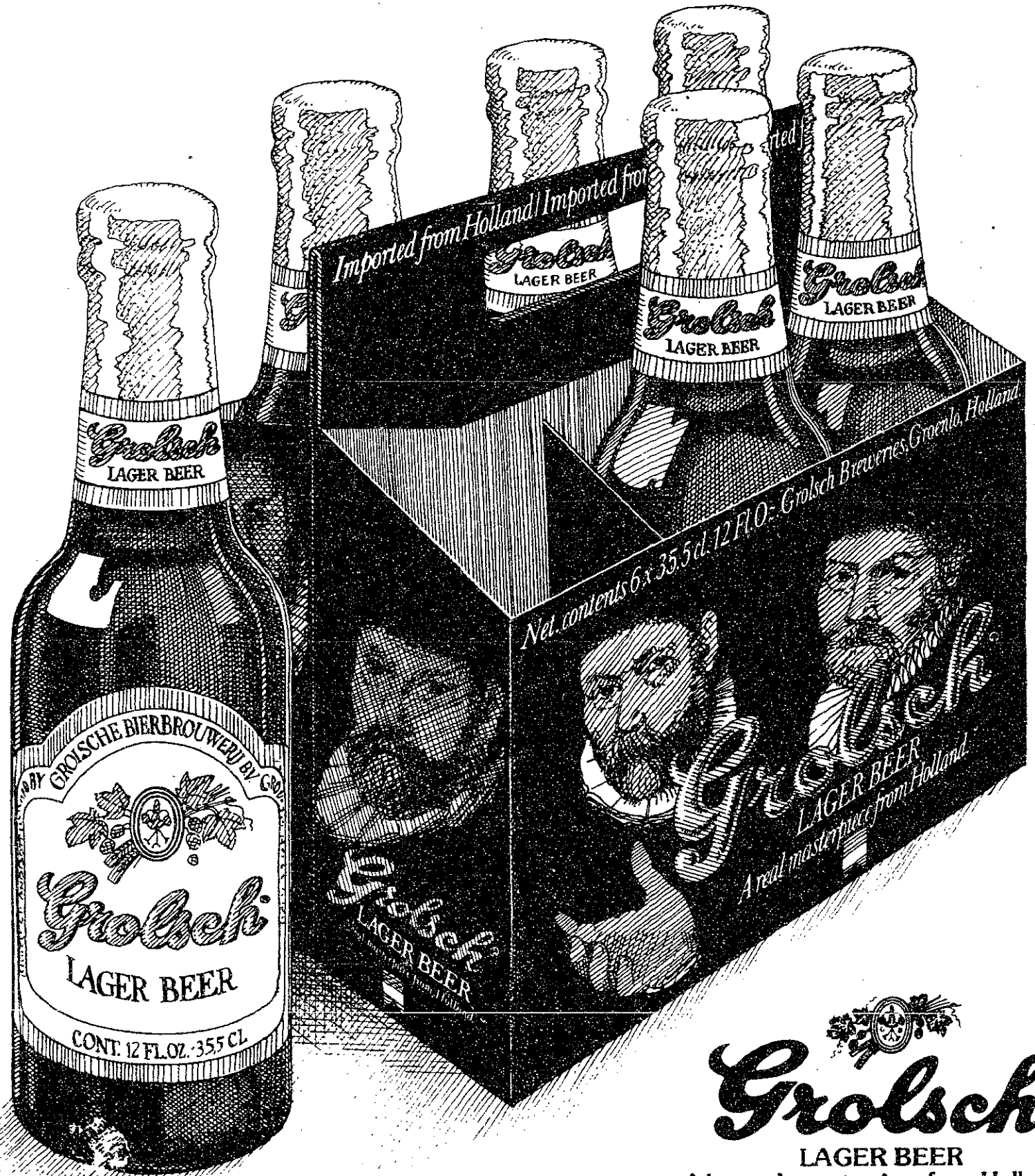
An exhibition by **local fabric artists** from the Greek, Afro-American, Haitian, and Puerto Rican communities open, running through Nov. 22 at the Field Branch of the Cambridge Public Library. An opening celebration will take place on Tuesday, Nov. 1 at 5:30 pm. For more information, call 498-9014.

## Wednesday, Oct. 26

The MIT **European Club** is hosting a trip to the Museum of Fine Arts to view the exhibit, "A New World: American Painting, 1760 — 1910." Meet at 7:30 p.m., at the main entrance of the museum on Huntington Ave. Admission is free with MIT ID, and the tour will be followed by dinner. For more information call x3-3133.

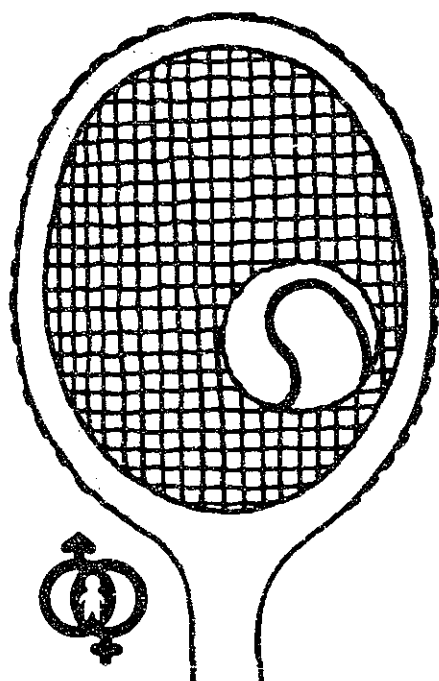
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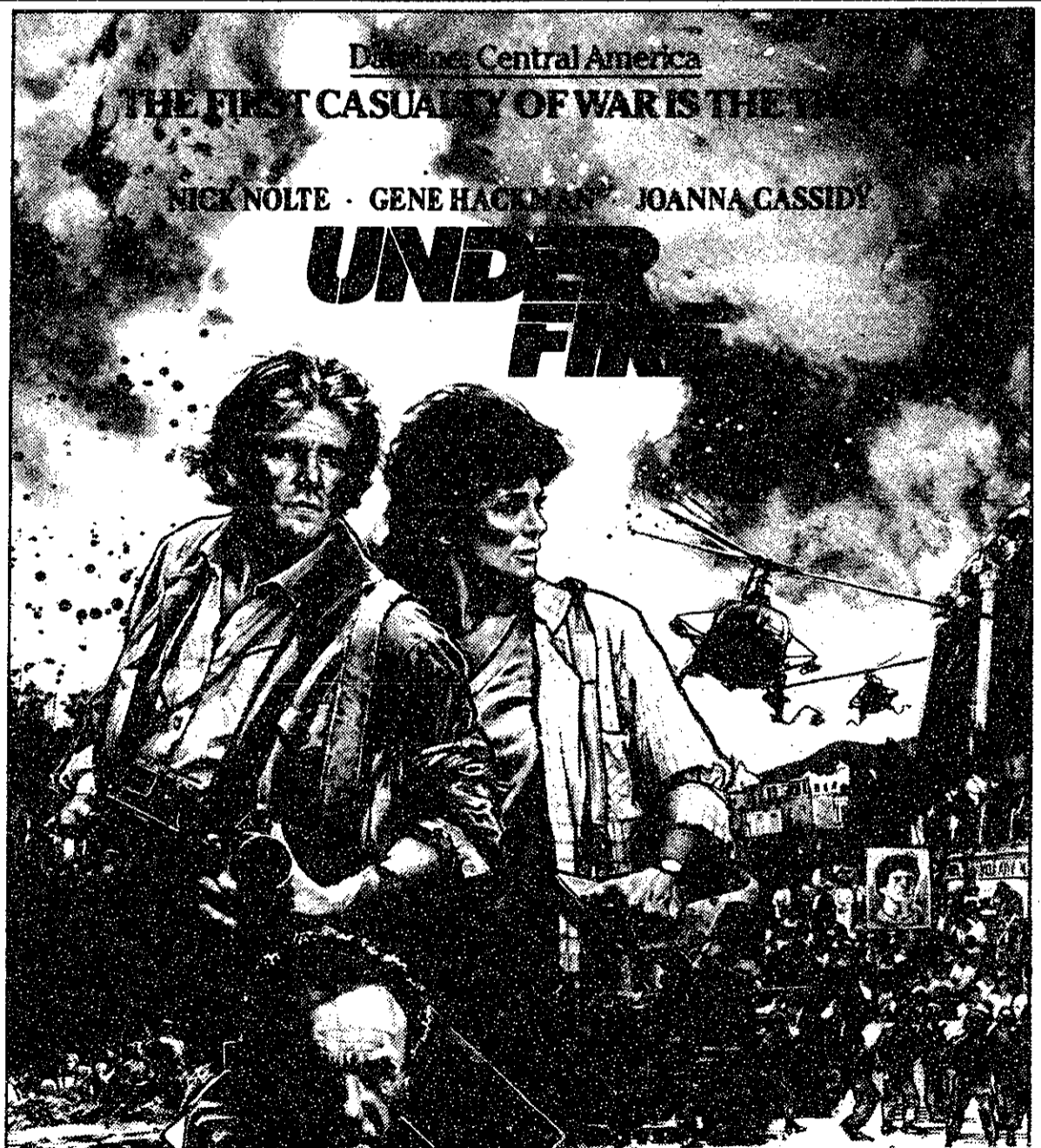
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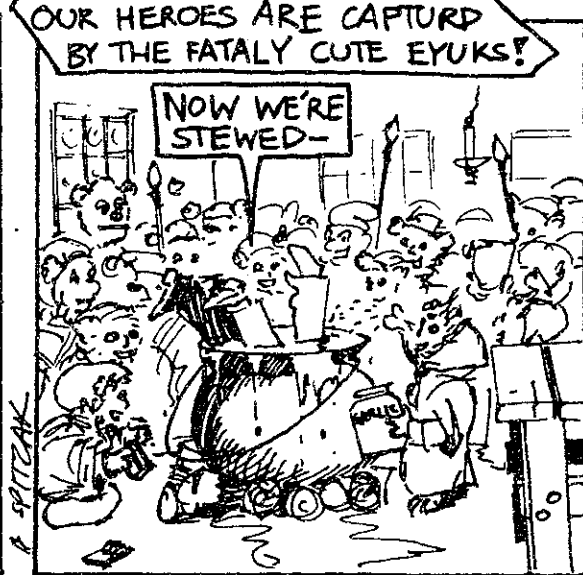
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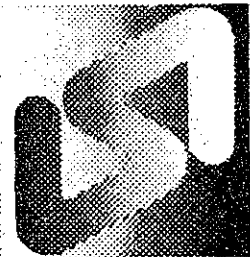
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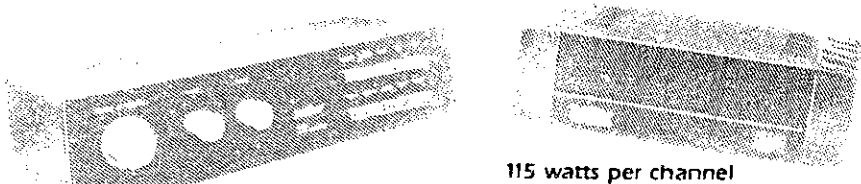
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# Anthropology professor discusses trip to Nicaragua, El Salvador on education

By Janice Eisen

Jean Jackson, associate professor of anthropology, spent two weeks in El Salvador and Nicaragua in August and September as part of a delegation from the Faculty Committee for Human Rights in El Salvador and Central America (FACHRES-CA) to observe educational conditions and human rights in those countries. Her academic work includes intensive study of South American Indians.

**Q: What is FACHRES-CA?**

**A:** FACHRES is a fairly loose network of faculty in the country. It is supported by contributions from members.

**Q: Did you have any official contacts with the Salvadoran government?**

**A:** Yes, we interviewed the provisional President Alvaro Magaña, the Minister of Defense Vides-Casanova, who heads both the security forces and the army, and members of the government human rights commission. We talked to representatives of the Constituent Assembly, which is the legislative branch. We talked to Napoleon Duarte and other members of the Christian Democratic Party.

**Q: Did you speak to any members of the opposition?**

**A:** Yes, sort of formally and you might say clandestinely. We spoke with a number of labor activists and leaders; we spoke with members of the church. You should understand that to say that some of these groups are the opposition can be a bit dangerous, maybe they would not want to call themselves that. In El Salvador a lot of words are buzzwords, code words, and they have a lot of meaning. Words like reality, truth, and negotiations.

The Tutela Legal, the Socorro Politico: These are both groups out of the archdiocese office who monitor and help people and families of people who have disappeared, who have been arrested, who are in prison. That's almost like being arrested, but in El Salvador you can be arrested and not in a prison that you can visit. There's a decree that allows the government to keep people incommunicado for 16 days before they have to tell anybody that they have apprehended the individual.

**Q: FACHRES concentrates quite a bit on the educational situation, and your group visited the National University in San Salvador, which was closed by the army in 1980. What did you see there?**

**A:** Well, we visited the National University campus, and we visited the National University. Right now those are two separate things, and it's important, when you say that the National University has been closed, that people understand that you're referring to the campus. Because the National University is trying to hold classes and have normal university life in makeshift quarters.

The campus is like a ghost town. It was invaded by the army, over 900 soldiers, helicopters, tanks came in spewing bullets randomly. The social science building was bombed, a great deal of damage happened. I don't really know how much of it was because of the vandalism aspect and how much of it was from looting, but the university campus is in very, very bad shape. Estimates are that it would take \$50 million to get it fully equipped and fully repaired to reopen it.

**Q: What were the grounds on which the university was originally closed by the army?**

**A:** The army said, and we talked to General Vides-Casanova, that the campus was being used as a stockpile for arms and to recruit and train guerillas. That was, of course, why they said they had to go in violently, invading the campus and killing — people don't know exactly how many people were killed because the army arrested everybody and there are no records. But at least 40 were killed.

No arms were found, and that is what Vides-Casanova admitted, so it's difficult to say just what was going on at the university. There certainly was political dissent, and I don't think anybody disagrees with that. But, of course, in

Latin America there is a tradition of rather total university autonomy. And the university officials that we spoke with, the rector and various deans of the different schools, all were upset that the government, particularly President Magaña, expects them to guarantee that there will be no political activity in the university.

**Q: Does the government intend to reopen the university?**

**A:** Yes, everybody we talked to said the university should be reopened. Clearly some sectors of the country see the university as just a hotbed of subversion, and they're quite happy to have it the way it is, but most people say that they want it to be opened.

The Constituent Assembly voted specifically to reopen the university, in either December or January. And in March a commission was formed to see how this could be done. The commission stalled over the question of autonomy. Magaña said he couldn't open the university and then go to the military and say he'd opened it if three weeks later they started doing what they did before. He suggested it be opened and for six months have no extracurricular activities except sports. Well, the commission said that was unacceptable and threatened to resign if that was demanded of them, and so it stalled.

**Q: What is your summary of the educational situation in El Salvador?**

**A:** It's totally bleak and unpromising. The situation in the country is one where over 30 million people have been killed. We saw horrible evidence of this, pictures of very mutilated bodies, and your response might be, well, with all of this breakdown in the country, economically, legally, in every way, who cares about something like education? But I think that's the wrong way to look at it, because it's not really some byproduct of all the violence and the terrible, brutal repression.

The university stands for people who think differently, who feel a responsibility to criticize government abuses, and the government does not tolerate that. It sees all kinds of dissent as subversion. The church — priests, archbishops, are brutally assassinated, and the education apparatus, UCA, the National University, have to be seen in that context as institutions that normally thrive in democracies and what we like to think of as advanced civilization. In El Salvador they are closed, are destroyed.

It's clear the university campus is not going to be opened for quite a while, at least until elections next year, and I think that's a very serious indictment of the present regime in El Salvador.

**Q: FACHRES reports that violations of human rights in Nicaragua are "neither so systematic, nor so severe, nor so numerous" as those in El Salvador. Will you elaborate on that?**

**A:** Well, that statement doesn't really say what I feel. There's no comparison of Nicaragua to El Salvador. The comparison would be with Somoza's regime and El Salvador. There is a censorship of the press, and there certainly is an opposition, but I would point out that there's an opposition that's very vocal, that you can yell at a policeman or yell at a member of the armed forces.

The church is quite divided in Nicaragua with respect to the Sandinistas. The private sector has a lot of complaints, and there is a permanent human rights office which has some complaints to bring against the government. There is no systematic torture as far as we found, there are no secret prisons. I noticed that the archbishop of Nicaragua told the Kissinger Commission that the church had a great deal to criticize. But there are many, many Catholics, and Nicaragua's a very Catholic country, who are still very much in favor of the government.

And the same thing with the private sector: a representative told the Kissinger Commission that everybody's against the Sandinistas. From our very brief stay that certainly is not our impression. Many, many people see the



Sandinistas as having brought them all kinds of good things, literacy, better opportunities, better life. Nicaragua sees itself as in a state of war, it's being attacked, it's a very tiny country, and the government officials that we talked to will say this is a time of war, and therefore they have press censorship.

**Q: Your group compared the censorship and harassment of the opposition newspapers to the United States government's control of reporting of national security issues during World War II. Do you really think this is a fair analogy?**

**A:** I think Nicaragua is very beleaguered. It's public knowledge now that there are funds being channeled to the *contras*. Everybody in Nicaragua mentioned this massive fleet. It would be as though Canada were sending a lot of money to revolutionaries on its territory to come in and invade us, but so much bigger than we can imagine, because Nicaragua's a very small country. I think in some respects, given that there is sabotage in the country, from anti-Sandinista groups, that it is a fair comparison.

**Q: But does the government restrict its censorship to matters directly relating to national security?**

**A:** I don't think so. I think they overdo it.

**Q: Some reports in the past couple of years have detailed very cruel and violent treatment of the Miskito Indians. Did your group do any research about this situation?**

**A:** ... Clearly, the government made several enormous mistakes in terms of the Miskitos. They admit that they made mistakes, and they also say they will continue to make mistakes. The situation is extremely difficult because of the location. The Miskito are in an area that is so isolated from the Spanish-speaking Nicaragua that it's a cultural, geographical, linguistic barrier of no mean proportions. We talked to Commandante Tomas Borge, who described what a heroic effort it was even to get telephones out to the Miskito territory. This is a part of the problem, that it is a different linguistic area, it's not just Miskito, it's Sumo and Drama Indians as well as black Caribs. They are oriented toward the Caribbean, and as I said some of them in many cases are oriented toward Honduras. All of this made for a very volatile situation and then when it heated up and exploded at so-called Red Christmas when that whole area became a free fire zone, the government decided to relocate all of the Miskito near the Honduran border, and, as always seems to happen with relocation, there are tremendous problems.

**Q: What about the vigilante groups?**

**A:** The vigilante groups — they're called Civilian Defense Groups, CDS — are an invention of the Sandinista government. They have two purposes. One is simply a civilian patrol to keep crime down, and apparently that has been quite a significant success.

Of course, the complaints about them have to do with their other activity, which is to keep tabs on people who are not totally pro-government. And this is where there is danger of abuse of people's right to come and go freely, or to belong to various organizations that are not specified as subversive organizations. You have the possibility of mistakes, or personal vendettas getting translated into political denunciations. I really don't think we were there long enough to be able to come out with some specific information that is negative.

**Q: What did average Nicaraguans say about life under the Sandinistas?**

**A:** ... I can't recall any man or woman on the street or in the market or in the store who said that they were not in favor of the Sandinistas. What they all stressed was how rotten it was under Somoza, and what a change from day to night. As I say, that's what they said. I'm sure people have complaints, but that's not the question. Nobody's claiming that Nicaragua is paradise.

(Please turn to page 14)



Tech photos by Omar S. Valerio

# Professor reports on Central America

(Continued from page 13)

**Q:** What have the Sandinistas accomplished in terms of improving health care and general living standards?

**A:** In terms of health, they've made a concerted effort to reduce all kinds of mortality and morbidity, in terms of both curative medicine and preventive medicine. One of the problems is that there are no decent figures from Somoza's regime, but I can give you some examples of some of the more spectacular achievements. There are oral rehydration projects that have reduced infant mortality due to diarrhea to fifth place; it used to be in first place.

And I should point out that, particularly to get vaccinations such as for polio, measles, DPT, and malaria, you have to have access to virtually all of the population, and this is one thing that the Sandinistas have been able to accomplish, in part because of their literacy campaign. They had 100,000 workers go out and at night teach a great majority of illiterate Nicaraguans how to read, and the illiteracy rate went from something like 59 percent to something like 12 percent. It was a remarkable campaign.

There are a lot of lapses in the health delivery system, and that has to do with questions of education. But a great deal of attention is being paid to building more hospitals and to educating new health workers. One of the things that was pointed out to us was that having to pay so much attention to the threats to Nicaragua's sovereignty not only requires a lot of economic resources, but it takes the attention of the most important members of the government away from reconstructing the country. This is a country that was devastated by an earthquake in '73, and downtown Managua is still devastated, and then devastated by the war against Somoza. Now all of this attention that has produced really spectacular results, a lot of that is now being forced to be paid elsewhere.

**Q:** What is the present educational situation in Nicaragua?

**A:** Nicaragua's education is one area where the Sandinistas from the very beginning paid a lot of attention, in addition to this literacy campaign which, as I said, was very impressive and got a lot of awards, recognition from international bodies, from other countries. In terms of for-

mal education at all levels there are over a million students. In a sense, you can say that more than one-third of the population is in classrooms, and that's because of the demographic structure of Nicaragua, it's a very young country.

Many people who were previously directors of universities now are in charge of that department. But the situation in Nicaragua in terms of primary, secondary, and higher education, is remarkably healthy. In the market we talked to one man, and he said he was very pro-Sandinista. We asked why. He said, "Now I'm free." We said, "What's that mean?" He said, "I can read."

"I think that you can't compare Nicaragua with El Salvador. El Salvador is hell."

**Q:** How much freedom of thought is encouraged? Are they teaching people to think freely in all their education?

**A:** . . . Any educational institutions can of course be seen as furthering the aims of a particular society. We tend to see them as against the government, but at a more profound level, of course. In a sense they serve the purposes of the — maybe not of the government narrowly defined — but perpetuate much of the situation. Many of the values, ideas, assumptions about the way the world works, and justifications for it.

The freedom to speak in Nicaragua has not been entirely curtailed, but it has been somewhat curtailed. It has a radio program that's very popular called "Face to the People," where individuals in the country get to meet face to face with various ministers, various government officials, and the questions they ask, the complaints they make — they don't pussy-foot around.

You really don't know how freely they think. I'm sure there's nobody who's totally in favor of everything that's been done since 1979. In freedom of speech, if you compare it to the rest of Latin America, Nicaragua comes out

looking very good, very good indeed. There has been so much attention paid to the curbs on freedom of speech in Nicaragua, but I would say many of these are not from humanitarian motives, but from political motives.

**Q:** Can you sum up your observations and feeling about El Salvador and Nicaragua?

**A:** Well, I can say that the experience that we had in El Salvador was devastating. It has remained with me. I have a lot of trouble making sense of it. When you're down there you try to sense of it cognitively, and you do. You say, well, this is a society that's highly repressive, the government would fall tomorrow except that it's being propped up by the United States, and you deal with your feelings about that.

When you talk to people who are in jail, and talk about their tortures, one drew me a picture — his torture wasn't even delayed until they got to a particular security force garrison or barracks, it started in the van. And he drew me this little picture that looked like something like one of my MIT students would draw, something that they were doing as a hobby, but this was an electric shock machine. That stays with you in a very profound way, particularly when you come back to this country and it seems like one has to be real or the other, but the two can't coexist.

So, while in many ways Nicaragua was an incredibly exciting experience for me and I have looked forward to going there, and I never in my wildest imagination looked forward to going to El Salvador — I dreaded it — I came away with less of a sense of what my opinion is about Nicaragua. I think that you can't compare Nicaragua with El Salvador. El Salvador is hell.

But in some ways I was somewhat dissatisfied; I think I had very high hopes for Nicaragua. But don't misunderstand me. In terms of human rights, which is what we concentrated on, in terms of progress in education, health, things like that, Nicaragua has done splendidly. I was a bit discouraged by some of what we heard in terms of criticism, but again that there is criticism, and that is vociferous, is a very healthy sign. You don't have democracy unless you have dissent.

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# The Tech

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# sports

## Homecoming has its place

(Continued from page 16)

The best part of varsity athletics for me is the interaction between athlete and spectator. The girl who scored the winning goal in yesterday's field hockey game may be in one of your recitations, while the defensive back who broke up a key pass lives in your entry. We get to know athletes as human beings at MIT, not just as a number on the back of a jersey.

I realize that for many people, MIT represents just a means to an end, and little else. I feel, however, that college should be the best time of a person's life, and that we should get all we can out of it. Stopping by and rooting for a friend or your school is, to me, part of that enjoyment.

## sports update

**Field Hockey** — The field hockey team suffered its fourth consecutive setback Tuesday, dropping a 3-1 decision to host Tufts. The squad's record falls to 4-6-1.

**Tennis** — The women's tennis team split a pair of matches this week, blanking visiting Regis on Tuesday 9-0 before losing 8-0 at Rhode Island College Wednesday.

**Volleyball** — The women's volleyball team continued its dominating ways Tuesday, trouncing host Harvard 3-0 to up its record to an unblemished 24-0.

## IM Notes

Rosters for IM backgammon teams are due by Monday, October 24. For more information, contact the intramural office or backgammon manager John Lee at x5-6156.

## classified advertising

**Classified Advertising in The Tech:** \$5.00 per insertion for each 35 words or less. Must be prepaid, with complete name, address, and phone number. The Tech, W20-483; or PO Box 29, MIT Branch, Cambridge, MA 02139.

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**The MIT Equipment Exchange** offers surplus equipment and used typewriters to students and staff at reasonable prices. Located in Building NW30, 224 Albany Street. Open Mon., Weds., Fri., 10 am - 1pm.

## New England Collegiate Football Conference Team Standings

	W	L	T	PF	PA
Bentley	5	0	0	154	20
Fitchburg State	5	0	0	121	23
Worcester State	4	1	0	174	33
MIT	3	2	0	105	58
Providence	3	2	0	65	68
Roger Williams	2	3	0	41	76
Stonehill	2	3	0	87	118
Assumption	1	4	0	120	108
Hartford	0	5	0	13	155
UMass-Boston	0	5	0	6	226

### Last Week's Results

Bentley 20, Roger Williams 0  
Fitchburg State 40, UMass-Boston 0  
MIT 35, Assumption 24  
Providence 19, Hartford 10  
Worcester State 37, Stonehill 13

### This Week's Games

Fitchburg State at Bentley, 1:30 p.m.  
Hartford at Stonehill, 1:30 p.m.  
MIT at Worcester State, 1 p.m.  
Roger Williams at Assumption, 1 p.m.  
UMass-Boston at Providence, 1 p.m.

## MIT Women and Friends' 5 kilometer/3.1 mile Road Race

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# sports

Eric R. Fleming

## School homecoming spirit has a proper place at MIT

On the field, homecoming 1983 was an unquestioned success: Our club football team ran all over Assumption, 35-24. Off the field, however, it was a different story, as the semi-formal was cancelled due to lack of ticket sales. In addition, the modest level of enthusiasm present in the last two homecoming weekends seemed to be absent this year. Some people may ask, "Do we need a homecoming weekend?"

I, as a native of Michigan, where football is a very important part of life for both students and the community in general, answer yes. Homecoming is the primary social event of the fall, where football and fun mix to create a weekend of relaxation. Spirit at my high school was never greater than during homecoming week.

On numerous occasions during my years here, I wish I had at-

## Soccer wins 2-1 over Tufts

By Eric R. Fleming

The Tufts-MIT rivalry covers many years and many sports. Wednesday the two Boston-area Division III schools squared off in soccer, and the match was the way it has been over the past several years — close and hard-fought. MIT came out on top, 2-1, thanks to a goal by Billy Lundberg '85 late in the second half.

The echo from the opening whistle was still bouncing off of Baker House when MIT scored its first goal. Bill Mayweather '86 sped down the right side uncontested as Jumbos' goalie Loren Shapiro came out to cut down the angle. Mayweather's touch bounced off the sliding netminder, giving the MIT forward an empty net 53 seconds into the first half.

The pace of the match then settled into a battle of the midfield, with neither team able to gain much of an advantage. The play was aggressive, but clean. Tufts began to take control midway through the half, and scored the equalizer at the 25:50 mark, as Mark Busa (brother of former MIT soccer standout John Busa '83) knocked in a shot off a corner kick.

The second half was highlighted again by tough midfield action and fine individual efforts on both sides. MIT attempted to switch fields with long lateral passes, while Tufts countered by sending wings to break downfield.

Both teams had good opportunities, but neither could cash in as goalies Shapiro and MIT's Mike Schoen '87 came up with saves when they had to. Finally, at the 82-minute point in the match, MIT got the winning goal.

Victor Guzman '87 sent a long pass down the left side, a tactic the Engineers had been using all match to no avail. This time, however, Lundberg managed to get to the ball, and beat a sprawling Shapiro with a twisting touch shot in the lower left corner.

Tufts still had some fight left, coming out hard after the Tech tally. Lundberg contributed defensively in this stretch, sliding to clear passes away from the Tufts' attackers. The best Jumbo chance beat Schoen, but the shot clanged off the crossbar before being cleared out of the box.

Colby will be the next foe for MIT, coming into Steinbrenner Stadium tomorrow for a 2pm contest.

tended the University of Michigan just to feel the excitement and electricity of 100,000 people jammed into a stadium to root for the Maize and Blue, singing "Hail to the Victors."

The story is, of course, different here in Cambridge. The emphasis is on participating, not spectating. The spirit comes from the average athlete running for a touchdown, not watching a recruited high school star run for six. One of the few facts in *Playboy's* recent article on MIT was the greater interest in intramurals than in varsity athletics. Three years ago, an IM football game between floors in my house brought at least 75 Burtonites out to yell and scream their heads off. To the 20 or so people playing the game, it didn't matter that they weren't playing for the Associated Press number-one ranking: Number one in Burton House was good enough.

There is definitely nothing wrong with this type of spirit, and our intramural program is without question one of the finest in the nation. But is there anything wrong with showing spirit for school teams as well? Although our football team won't beat Nebraska, our men's basketball team won't make the Final Four, and the Red Sox won't scout our star pitcher, there is still a lot going for varsity athletics here.

You don't need any money to see a sporting event — say that about BC or Harvard — and you can often catch both a football and baseball game going on right next to each other, or a women's hoop game in Rockwell Cage, and a hockey game in the Athletic Center. If that's not your style, check out swimming, wrestling or volleyball.

(Please turn to page 15)

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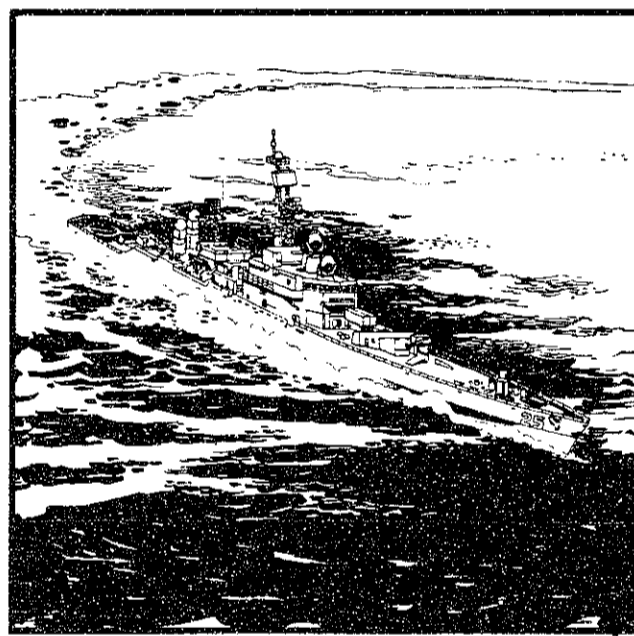
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