

MIT's
Oldest and Largest
Newspaper



The Weather

Today: Increasing clouds, 40°F (5°C)
Tonight: Late snow, 25°F (-4°C)
Tomorrow: Snow, 28°F (-2°C)
Details, Page 2

Volume 112, Number 1

Cambridge, Massachusetts 02139

January 31, 1992

Audit Agencies Present Indirect Cost Findings

By Eva Moy
STAFF REPORTER

In the broadest presentation of the indirect cost issue to date, several federal audit agencies presented their findings on several dozen research universities, including MIT, at a congressional hearing in Washington, D.C., on Wednesday.

"The subcommittee has been dismayed to discover the depth and breadth of the indirect cost abuses at universities," said Rep. John D. Dingell (D-Mich.), chairman of the Subcommittee on Oversight and Investigations of the House Committee on Energy and Commerce, in his opening statement.

The Defense Contract Audit Agency presented testimony on its

audits of 28 universities, while the Department of Health and Human Services testified about its audits of 14 universities. The General Accounting Office and the Office of Naval Research also presented testimony at the hearing.

This was the third hearing to address the problem of universities that wrongly or excessively charged the government for research costs. The other two meetings occurred in March and May, when the scope of these charges was expanded from Stanford University to research universities around the nation.

GAO enters audit circus

The GAO testified on circumstances it felt contributed to the overcharges. The office charged that

universities lack adequate checks on the allocation of indirect costs and that ONR and HHS have "lax oversight practices." In addition, the GAO said that the language of Circular A-21 was "vague, inconsistent, or absent altogether."

Circular A-21 was issued by the Office of Management and Budget in 1958 to assure "that the Federal Government bears its fair share of total costs, determined in accordance with generally accepted accounting principles."

Efforts to tighten control over cost allocation are well under way. ONR and HHS have begun to correct their problems and reconsider the criteria used to evaluate Memoranda of Understanding, under which the government agrees



PHOTO BY DONNA COVENEY
Vice President for Financial Operations James J. Culliton

to determine budgets in certain ways. Some universities have con-

ducted audits of their indirect costs. Also, in October 1991, the OMB disallowed some of the expenses it had previously permitted.

The GAO focused on MIT, the University of California at Berkeley, and Harvard Medical School in the wake of a previous review of Stanford University's billing of indirect costs to the government.

Two items concerning the Institute were specifically mentioned by the GAO, including a lease on a building at 175 Albany St. and the level of the building's capitalization threshold. Both of these issues were addressed by MOUs negotiated by DCAA.

Audit, Page 8

Wrighton Makes Major Changes in Academic Council

By Sarah Keightley
ASSOCIATE NEWS EDITOR

Provost Mark S. Wrighton announced a set of sweeping changes in the highest levels of Institute administration earlier this week, including the merger of the Undergraduate Education Office and the Office of the Dean for Student Affairs. Wrighton also announced the appointments of several administrators, effective tomorrow.

Arthur C. Smith, dean for student affairs since July 1990, was appointed dean for undergraduate education and student affairs. His

new responsibilities include curriculum support, the Reserve Officers' Training Corps, the Undergraduate Research Opportunities Program, and the writing requirement.

Wrighton named Professor Sheila E. Widnall '60 associate provost. Widnall will be responsible for academic integrity, federal relations, faculty retirement, promotion and tenure policies, and international educational programs.

Samuel J. Keyser was appointed associate provost for institute life. "I will be essentially working on most of the issues I was working on," he said in a telephone interview yesterday.

In this position, Keyser will deal with sexual harassment, improving faculty diversity, improving faculty orientation programs, and building collegiality. Keyser said he plans to handle questions relating to the freedom of speech, such as the rule against bad-mouthing living groups during Residence/Orientation Week.

Wrighton appointed interim Vice President for Research J. David Litster '65 the vice president and dean of research. In his new job, Litster will supervise many of MIT's major interdisciplinary research centers and several depart-

ments in Whitaker College.

All report to Wrighton

As part of the restructuring, Dean of the Graduate School Frank E. Perkins '55 and Smith will report directly to Wrighton. The dean for student affairs previously reported to Keyser, who in turn reported to the provost.

Hans C. Godfrey '93, Undergraduate Association floor leader, did not think that more direct reporting to the provost will affect students. "It just put on paper what was in practice."

But another change, the merger

of the UEO and ODSA into a single unit working under Smith, may affect students to a much greater extent. Wrighton explained the change by saying that the "coupling of student life and academic affairs has not been done as effectively here as at other places. In the end, I was persuaded that these new responsibilities fit nicely and better serve the students' needs."

Because Smith was chair of the faculty during the critical time when MIT began to focus on undergraduate education, "he really under-

Council, Page 13



HASS-D Graduates Show Increased Breadth

By George Ipe
STAFF REPORTER

As the first class to graduate under the Humanities, Arts and Social Science Distribution requirements, the class of 1992 seems to have a broader exposure to the humanities than their predecessors. The HASS-D requirements were established in May 1987 to replace the Humanities Distribution requirements, which had been in place since 1974.

"My own subjective judgment is that students now get a better breadth of a humanities education than before because they are required to take at least three classes from three separate categories," said Bette K. Davis, coordinator of the HASS Information Office. "Students are more likely to take a literature class, or a philosophy class, or other humanities classes, rather than clustering their subjects around a particular field, which

could have been done under HUM-D."

"Though HASS-D may not be a perfect system, it is an improvement over HUM-Ds. HASS-Ds give greater coherence and definition to the humanities courses offered here. In terms of getting a general humanities education, I certainly think that students now are better off than before," said Philip S. Khoury, dean

HASS-Ds, Page 11

GSC Discusses New Status That May Lower Tuition

By Alice N. Gilchrist
STAFF REPORTER

Last Wednesday the Graduate Student Council organized an open forum to discuss the prospects for the All But Dissertation status and their relation to MIT's overhead costs, which are currently under investigation by the government.

Frank E. Perkins '55, dean of the Graduate School, and David J. Litster, associate provost and vice president for research presided over the meeting. Peter B. Cebon G, a representative of the GSC's Faculty Policy Committee, moderated the event.

Perkins spoke about ABD status and the reasons MIT does not offer it to graduate students. He said the reasons are "lost in ancient history." ABD status is available to graduate students at most of MIT's rival schools once they have passed their qualifying exams, Perkins said. Students at other universities who are on ABD status typically pay 50 percent or less of their non-ABD counterparts' tuition, according to Cebon.

GSC President Furio Ciacci G said two things must be considered before the council can take a stand on the issue: Whether offering ABD status to graduate students will make the cost of education "more

fairly distributed," and how the Institute will be able to compensate for the "monetary loss" incurred if ABD status is adopted.

Perkins explained that MIT does offer a form of ABD status, called Non-Resident Doctoral Dissertation status. To qualify, a graduate student must have completed his qualifying exams and must agree to "severe restrictions." If a student qualifies for the status, he pays only 15 percent of full MIT tuition and no summer tuition. Students in the

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WORLD & NATION

U.N. Envoys Disagree on Key Nuclear Arms Clause

LOS ANGELES TIMES

UNITED NATIONS

As President Bush and a dozen other world leaders converged on New York yesterday for the lustrous summit of the United Nations Security Council, the event lost a bit of its glitter when ambassadors failed to agree on a vital nuclear proliferation clause for the final declaration that will come forth from the meeting.

British Ambassador David Hannay, who has presided over the Security Council this month, tried to put the best face on the embarrassment by announcing that the declaration enjoyed "very broad support." But, by this time, he and his colleagues were supposed to have reached what the United Nations likes to call "a consensus."

The disagreement was clearly significant, for it reflected two troubling U.N. problems: a Third World suspicion of the motives of the Western industrialized nations and an outdated Security Council configuration that ignores the new power of Germany and Japan.

NIH to Develop Plan to Take It Into the Next Century

LOS ANGELES TIMES

WASHINGTON

The National Institutes of Health will for the first time try to develop a long-range plan that its director says will take the nation's premier biomedical research facility into the next century. "The NIH has never set out in a conscious way" to determine "how it sees its future," NIH Director Bernadine Healy told a group of reporters yesterday.

The agency will hold public hearings around the country to gather opinions from the scientific community, Healy explained. She said that the agency would seek input from outside investigators funded by NIH as well as scientists from the 13 institutes themselves.

The agency has "been on stormy seas" lately with a "crisis of demoralization," Healy said, in part because constraints in the NIH's \$9 billion budget and salaries so low that some federal scientists have left the NIH for more lucrative jobs in the private sector.

Bus Hijacker Shot Dead After 320-Mile Chase

LOS ANGELES TIMES

COLTON, CALIF.

Convinced that Armageddon is near and distraught over losing touch with his family, a charter bus driver hijacked a Greyhound bus and its eight passengers in Phoenix, Ariz., early yesterday. He led police on a 320-mile chase before they shot him dead just after reaching home.

A Colton police officer shot Raynaldo Andrade Gonzalez at 4:35 a.m. in the rear driveway of the house where he lived with his pregnant wife and three children. Gonzalez, 33, was unarmed but struggling with police in an attempt to get a weapon, said San Bernardino Sheriff's Department Sgt. Dennis Casey.

During the 4-hour pursuit across the Arizona and California desert, the commandeered bus struck a pickup truck, a car carrier and a California Highway Patrol squad car.

None of the bus passengers, including an infant and a French postal worker who speaks little English, were injured. No one in the struck vehicles was hurt. Two Colton police officers at the scene of the shooting and alleged scuffle were hospitalized. They are in fair condition.

Tax Credits of Up to \$2000 Sought For Buyers of U.S. Cars

THE WASHINGTON POST

WASHINGTON

The Congressional Automotive Caucus yesterday introduced legislation that would give tax credits of up to \$2,000 to anyone who buys a new American-made automobile.

The idea behind the legislative proposal is to try to make American cars less costly, and thus more attractive, by wiping out the estimated \$1,500-per-car cost advantage that Japanese companies have over their American rivals in auto production. U.S. sales of new vehicles fell 11.2 percent last year to an eight-year low of 12.3 million cars and trucks, down from 13.9 million in 1990.

WEATHER

Storm's a comin'

By Michael C. Morgan
STAFF METEOROLOGIST

Large cyclone develops offshore, snow threat to eastern New England

Strong northerly winds, a return to below-normal temperatures, and periods of snow will be experienced in eastern New England this weekend as a cyclone intensifies offshore.

Friday: Increasing clouds. High near 40°F (4°C).

Friday night: Cloudy and cold with light snow beginning late. Low 25°F (-4°C).

Saturday: Cloudy with occasional snow becoming steadier. Winds north-northwest 20-40 mph (13-25 kph) with stronger gusts. High 25°F-30°F (-4°C to -1°C). Low 22°F-25°F (-6°C to -4°C).

Sunday: Mostly cloudy with snow ending. Winds northwest 20-35 mph (13-22 kph). High 24°F-28°F (-4°C to -2°C). Low 20°F (-7°C).

Most Americans Don't Believe In Bush's New Economic Plan

By Eric Pianin
and Richard Morin
THE WASHINGTON POST

WASHINGTON

President Bush sought to pump up support for his tax and economic recovery plan with a campaign-style appearance in Philadelphia yesterday, but a new survey found that a majority of Americans do not believe they would significantly benefit from his proposals.

A Washington Post-ABC News Poll also showed that seven out of 10 said Bush's economic plan does not go far enough to help the economy and that half of those questioned believe that Bush simply does not "understand the economic problems people in this country are having."

The poll found that 46 percent of those questioned said they approved of the job Bush was doing as president, virtually identical to his 45 percent approval rating two weeks ago. It marked the third consecutive time since mid-December that Bush's approval rating has been below 50 percent in Post-ABC News polls.

On Capitol Hill, the president's proposals rekindled Democratic charges that the president is more concerned about helping the rich than the middle class. House and Senate Democratic leaders Thursday stepped up their criticism of Bush's tax package and budget, contending that Bush had resorted to budget "gimmickry" to finance his proposed cut in the capital gains tax and other measures.

House Majority Leader Richard A. Gephardt, D-Mo., charged that Bush had failed to break with Republican policy mistakes of the 1980s. "Instead, he asks that we relive the failed experiment of Reaganomics, prolong the pain felt

by middle-class Americans, and rely on more of the kind of budget gimmickry which is driving the deficits smothering our economy," Gephardt said.

Office of Management and Budget Director Richard G. Darman defended Bush's plan during testimony before the House Budget Committee and predicted that it would speed up the long awaited economic recovery if enacted by Congress before the March 20 deadline set by the president. As for allegations of budget chicanery, Darman replied: "We've been very, very straight."

Bush's Philadelphia speech, the first in a series of events planned to rally support for his plans unveiled in his State of the Union address Tuesday, drew scores of demonstrators outside the hotel, some holding signs that read, "Where's the Jobs?" and "Sayonara George."

"You can affect the way Congress approaches this program," Bush told about 600 people at a luncheon of the Greater Philadelphia Chamber of Commerce. "With your help we'll get action and we will reaffirm our country's rightful place as the world's leader, for this decade and the next century."

"The pessimists are wrong," Bush declared. "We are going to pull out of these hard times."

Bush sought to re-emphasize the fact that he has an economic plan in a political commercial airing in New Hampshire, where the president is being challenged by conservative Patrick J. Buchanan in the GOP primary.

Striding across the Oval Office with his hands in his pockets, Bush says in the ad that his proposal "will cut taxes for families, encourage

investment so businesses can create new jobs, and restore the value of homes and real estate."

However, the Washington Post-ABC poll conducted Wednesday night suggested that the president has done little to ease public concerns about his handling of the economy. The survey found that 28 percent of those questioned said they approved of the way Bush was handling the economy while 69 percent disapproved, virtually unchanged from December.

Those surveyed expressed enthusiasm for parts of the overall plan. For example, the poll found that three out of four persons questioned said they favored Bush's plan to cut defense spending by an additional \$50 billion over five years.

Those questioned were divided on the benefits of Bush's proposal to reduce the capital gains tax from 28 percent to about 15 percent. Forty-five percent of those questioned said the reduction would help the economy, while 50 percent said it would have little impact.

But when considered together, 69 percent of those polled said Bush's proposals to improve the economy did not go far enough. And 62 percent said Bush's plans would help the economy "just a little" or "not at all."

Yet the survey also found that, by 2 to 1, most Americans supported Bush's call for Congress to act on his economic proposal by March 20. But eight in 10 expected Congress will fail to meet the president's deadline.

A total of 769 randomly selected adults were interviewed Wednesday night for the Washington Post-ABC News Poll.

U.S. to Treat Yeltsin as Last Hope for Russian Stability

By Douglas Jehl and Doyle McManus
LOS ANGELES TIMES

WASHINGTON

Spurred by bleak assessments from senior U.S. analysts about the situation inside Russia, President Bush and his closest advisers have decided to go all-out to shore up Boris N. Yeltsin's grip on power during the Kremlin leader's summit meeting with Bush at Camp David tomorrow.

The administration has concluded that if Yeltsin falls, his successor will almost certainly be someone far more hostile to U.S. interests, officials said.

Only two months ago, senior administration officials were almost openly disdainful of Yeltsin and sought to prop up the more predictable Mikhail S. Gorbachev. Even as recently as three weeks ago, senior advisers to Bush were said to have concluded that Yeltsin was such an unreliable champion of reform that the administration might be best off maintaining some distance from him.

But now, with Yeltsin in charge and fighting for political survival, it is he who will be anointed in a deliberate presidential signal to his restive homeland.

That Bush will open his arms to the Russian leader was described by sources as the result of warnings by the U.S. Embassy in Moscow and other government agencies that Yeltsin stood as the last best chance for democratic reform in Russia.

"Without depicting Yeltsin as a white knight," one official said, repeating an argument U.S. Ambassador Robert S. Strauss was said to have made to Secretary of State James A. Baker III, "this is about the best government they're going to have. ... There's not a better alternative out there to try."

White House officials were stunned by the speed of Gorbachev's ouster. Now, they are increasingly concerned by what they see as the authoritarian and nationalistic character of the opposition to Yeltsin — as well as the absence of any other leader with remotely his ability to command broad support across the Russian republic.

In the immediate context of tomorrow's visit, White House officials hope to convey their new regard for Yeltsin by offering the once-scorned country cousin the same personal and ceremonial gestures made to Gorbachev when he visited Washington two years ago: an intimate lunch at Camp David, a special presidential windbreaker with the Russian leader's name embroidered on it, perhaps even a one-on-one stroll along the wooden pathways of the rustic mountain retreat.

Bush and Yeltsin are also expected to announce plans for a second meeting later this year, most likely a formal state visit to Washington by the Russian leader.

Some analysts say Yeltsin is engaged in a desperate race against the clock, spending his present pop-

ularity to buy time for his country to find a way out of the economic and social quagmire that now threaten to swallow it.

Unless Yeltsin can maintain popular support long enough to fend off an inevitable backlash, analysts have decided, the reforms he champions may die.

While the primary focus of Bush's summit efforts will be on bolstering Yeltsin, the American president will also use conversations at the United Nations today and Camp David on tomorrow to nudge Yeltsin toward a less-expansive view of his power, reminding him that Ukraine, Kazakhstan and other republics must be left to determine their own direction.

The two leaders will also review the status of U.S. and international efforts to aid Russia's economy and of the Middle East peace conference the two nations are co-sponsoring.

Arms control is also on the agenda. And just days after the two leaders unveiled new arms-reduction proposals, a senior administration official said they would like to reach agreement on a timetable for further talks on drastically reducing each nation's nuclear arsenal.

But the official stressed that Bush would seek Yeltsin's agreement to include in future discussions outstanding questions about the Strategic Defense Initiative and Anti-Ballistic Missile Treaty — issues for which Yeltsin had shown little enthusiasm.

Bush Begins Campaign to Sell His Economic Program

By James Gerstenzang
LOS ANGELES TIMES

NEW YORK
President Bush, beginning the campaign to sell his election-year program of tax cuts and optimism, yesterday decried "sweet-sounding quick fixes" for healing the economy and told a business audience: "This is no time for gloom and doom."

Speaking to the Greater Philadelphia Chamber of Commerce before flying to New York for a U.N. Security Council summit conference today, Bush said three words would separate his plan from any competing proposals: "It will work."

But Bush's reception was lukewarm at best; his 26-minute luncheon address was interrupted only four times by applause.

The business executives invited to the speech by the Chamber of Commerce are the kinds of people the White House expects to be the bedrock of Bush support during the 1992 election campaign.

The president was "preaching to the choir," said Charles Greene, executive director of public affairs at the Bell Co. of Pennsylvania. But Greene said he remained troubled after the speech, wondering: How are "people of lesser means... going to benefit" from Bush's plan?

For Bush, taking a reduced-sized version of his State of the Union speech on the road was the first step in what White House and campaign officials said is a plan to focus on key issues one by one, beginning with the economy, then moving to health care next week and other issues later.

"As businessmen and businesswomen, you can separate the sensational from the sensible, the sweet-sounding quick fixes from real solutions. When it comes to America's economy, we can't accept empty symbols and slogans," Bush said, adding that in Washington, the air is "thick with feel-good gimmicks that have nothing to do with true prosperity and everything to do with politics."

Bush urged the audience to press Congress for speedy action on his proposals.

"What troubles me is if we let it drag on, it's going to get really caught up in the rough-and-tumble of the 1992 national politics," Bush said.

Meanwhile, congressional Democrats pledged yesterday to act on Bush's economic plan before his March 20 deadline, but they served notice that the tax cuts they enact are likely to be more favorable to the middle class than those that the president has proposed.

At a hearing of the House Budget Committee, House Majority Leader Richard A. Gephardt, D-Mo., said that "Democrats will cooperate" with the president's desire for fast action, but vowed they "will not fold" on their view that the package should be revamped.

Richard G. Darman, Bush's budget director, insisted to lawmakers that the president's proposal "will get the job done" in terms of reviv-

ing the economy.

But several Democrats, including Budget Committee chairman Leon A. Panetta, D-Calif., questioned Bush's proposal, complaining that it contained too many budgetary gimmicks and unfairly concentrated the tax breaks on the wealthy.

After his speech in Philadelphia,

Bush turned his attention to foreign matters. In New York, he met in his suite at the Waldorf-Astoria Hotel in Manhattan with the leaders of six nations yesterday afternoon. Today he will visit the United Nations and meet at Camp David, Md., with Russian President Boris N. Yeltsin tomorrow.

Budget Would Aid Private Research

By John Burgess
THE WASHINGTON POST

WASHINGTON
President Bush's new budget contains a relatively small but significant shift of federal research funds from military projects to civilian ones aimed at strengthening the nation's industrial prowess and competitive position, according to executives of U.S. technology companies and organizations.

Bush proposed spending \$74 billion on all federal research programs, only slightly more than last year. However, the civilian share of the research pie would rise by 7 percent while military research would go up only 1 percent.

Programs aimed at strengthening civilian manufacturing technology would get a large funding increase — 27 percent to \$321 million. A National Institute of Standards and Technology program, which funds research in such areas as advanced materials and semiconductors, would get a 16 percent increase to \$202 million.

Other civilian winners include photovoltaics (conversion of solar energy into electricity), AIDS research, biotechnology and the National Science Foundation.

In a move that appeared to signify a continued Bush administration commitment to the U.S. effort in supercomputers, the proposed bud-

get allocates \$803 million for the High-Performance Computing and Communications program, which is creating a national network of supercomputers. The amount is an increase of 23 percent.

The Bush administration previously has shied away from direct aid to U.S. civilian industry, saying that government intervention in the economy would waste taxpayers' money and reward some companies at the expense of others. U.S. technology companies had lobbied hard for the president to make a major statement of his commitment to promoting U.S. technology in his State of the Union message. However, he made only brief reference to it.

Nonetheless, senior executives in the U.S. high-tech industry said the Bush budget marks a significant turn in White House thinking.

"We see a good deal of movement in the right direction," said Kent Hughes, president of the Council on Competitiveness, a privately funded group that in the past has criticized Bush technology policies. Sen. Albert Gore Jr., D-Tenn., usually one of the strongest congressional critics of the administration's position, also had some praise. "There is some good news in this budget," he said. But he said that overall the budget did not transfer resources to civilian projects fast enough. Industry groups also wel-

comed Bush's proposal to make permanent the tax credits for firms conducting research and development. Richard Iverson, president of the American Electronics Association, said the proposal would be important in allowing firms to plan for the future.

In addition, several days before the budget was released, the federal government announced plans to send Cabinet-level officials to seminars around the country to publicize how government and private industry could work together.

The budget assigns \$8.7 billion to the National Aeronautics and Space Administration, up 13 percent. It also would provide \$650 million for the so-called Superconducting Super Collider, a 34 percent rise for the huge Texas project that is to conduct advanced physics research.

However, of the total research budget, \$42 billion, or 59 percent, is still allocated to defense work, including support of a handful of prestigious national laboratories that have conducted most of the nation's nuclear weapons research. Included in the figure is \$1.14 billion for nuclear weapons research and development by the Department of Energy, a cut of 3 percent.

Protesters Will Meet Chinese Leader at U.N.

By Ron Howell
NEWSDAY

UNITED NATIONS

Chinese Premier Li Peng, branded the butcher of Tiananmen Square for ordering the crackdown that killed hundreds of pro-democracy activists in 1989, will be the target of thousands of demonstrators when he meets with President Bush Friday at the United Nations.

The Chinese leader's arrival at the United Nations is to be met by as many as 10,000 protesters, rally organizers said. They are not happy, either, with Bush, who has agreed to talk privately with him in a Security Council conference room Friday afternoon. A senior administration official Thursday night spelled out the topics on the Bush-Li agenda as human rights, trade and arms proliferation. The official, speaking anonymously, implied that Congress could deny China continuation of most favored nation trading status if China fails to ease U.S. concerns.

But to Li's critics, no amount of progress could justify the meeting.

"In China, he is the same as Hitler and Saddam Hussein," said Fang Lizhi, the Chinese astrophysicist and dissident who came to the United States after the killings and now teaches at the University of Arizona. "Li Peng took charge of the Tiananmen massacre. That was done by him."

Organizers say they will hold a mock trial, accusing Li of the Tiananmen Square killings. A small plane trailing a banner saying, "Li Peng Butcher of Beijing," is to fly over lower Manhattan and near the Statue of Liberty.

Chinese dissidents say it is bad enough Bush will meet with Peng. But in interviews some said they hoped Bush would not be photographed shaking hands with him. That would give the Chinese leader one of the best propaganda opportunities of his week-long swing through Europe and the United States, they said.

Dr. Stephen Ng, chairman of the Alliance of Hong Kong Chinese in the United States said "The Chinese ... believe in pictures, and if they see a picture of Li Peng shaking Bush's hand ... this guy is fully rehabilitated."

Hoping to gain a measure of respectability in the wake of Tiananmen Square, the Chinese premier is coming to New York after a four-nation trip through Europe. Demonstrators in Europe expressed their opposition to the regime in China; but Li's meetings with heads of government gave the impression he is accomplishing his public relations goal, at least in part.

China has said it will soon release six people detained since the 1989 Tiananmen demonstrations, according to John Kamm, a U.S. human rights advocate based in Hong Kong. Critics are unimpressed with the announcement.

"... It doesn't alter the picture in terms of the ultimate scale of repression," said Mike Jendrzeyczyk, Washington director of Asia Watch, a human rights monitoring group.

He said that up to June of last year, there were at least 50 officially announced executions stemming from the Tiananmen Square uprising. Between 1983 and 1987, it is estimated that as many as 30,000 people were executed, he said, many for drug-related crimes.

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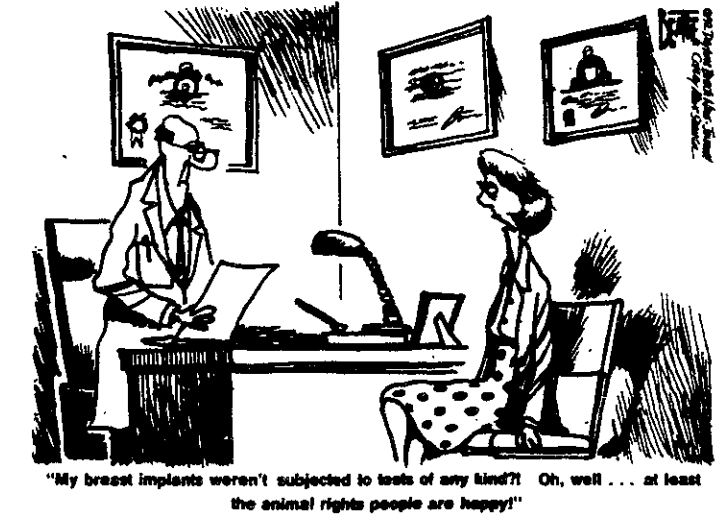
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The Tech (ISSN 0148-9607) is published on Tuesdays and Fridays during the academic year (except during MIT vacations), Wednesdays during January, and monthly during the summer for \$20.00 per year Third Class by The Tech, Room W20-483, 84 Massachusetts Avenue, Cambridge, Mass. 02139-0901. Third class postage paid at Auburn, Mass. Non Profit Org. Permit No. 59720. POSTMASTER: Please send all address changes to our mailing address: *The Tech*, PO Box 29, MIT Branch, Cambridge, Mass. 02139-0901. Telephone: (617) 253-1541. FAX: (617) 258-8226. Advertising, subscription, and typesetting rates available. Entire contents © 1992 The Tech. Printed by MassWeb Printing Co.



LETTERS TO THE EDITOR

Tech Articles Biased in Use of Abortion Labels

I am writing regarding your choice of language in two recent news summaries about abortion-related issues ["Over 270 arrested in Roe v. Wade anniversary demonstrations," "Supreme Court will review Pennsylvania abortion law," Jan. 22.] In both articles, the opposing factions are described as "pro-choice" and "anti-abortion."

The effect of this is to produce a definite bias in the mind of the reader. "Pro" has an

inherently positive connotation, while "anti" creates a negative impression. Intentionally or not, your selection of words casts one side in a decidedly better light than the other.

I have two alternatives to suggest. You could call both sides by the titles they prefer: pro-life and pro-choice. Another option followed by many newspapers refers to one side as "abortion-rights advocates." However, if you decide to do this, I would strongly urge that you refer to the other side as "fetal-rights" or "right-to-life advocates." It is biased to use the word "right" to describe only those who support legal abortion; it implies the

existence of an intrinsic right to abortion, something many people contest, and makes the other side sound like evil boogymen trying to take away this "right."

Margaret F. Keady '93

Editor's Note: The articles being discussed were taken directly from the Associated Press wire, and the word choice within them thus follows the style of the AP. As of this issue, national news will be provided by the Los Angeles Times-Washington Post News Service. Stories in the national section will follow the style of this news service.

Religion Helps Some Survive Nuclear Age

Guest Column by Swami Sarvagatanada

The word religion is derived from the Latin root "religio," which means to fasten or bind back together. We are born separate. Religion is supposed to bring us together and untie us all as one big human family. But this has not happened. There are so many different and seemingly contradictory religions in existence. Not only do we disagree about each other's beliefs, but we become disagreeable as well, leading at times even to bloodshed. Although this problem has been with us for centuries, it cannot be allowed to continue. We are living in a new age where men and women of all nations have literally become neighbors because of the wonderful advances in science and technology. The role of religion must be to develop a universal brotherhood and sisterhood in which we treat the whole world as one harmonious unit and learn to live in peace.

We sincerely feel that all religions are true and definitely lead to higher levels of God consciousness. Hence we have to learn to accept, respect, and learn from all religious prophets, saints, and sages. No religion can be ignored. As a wonderful ancient dictum in the Vedanta tells us:

"Ekam Sat Vipra Bahudha Vadanti."
"The One Being, sages call variously."

God is One. His manifestations are many. Accept all manifestations; bow down to them. It is not a question of mere tolerance for other faiths. Full acceptance is necessary. The followers of different religions are like the children of one family, having different temperaments, ideas and ideals, but sharing the same parentage.

The statement that all religions are true is sometimes difficult to accept because traditions, customs, and rituals differ in different religions. But from the standpoint of moral and spiritual values, all religions are the same. We are fortunate to have an authentic record of an extraordinary religious experiment conducted in the last century by Sri Ramakrishna, a great prophet of India.

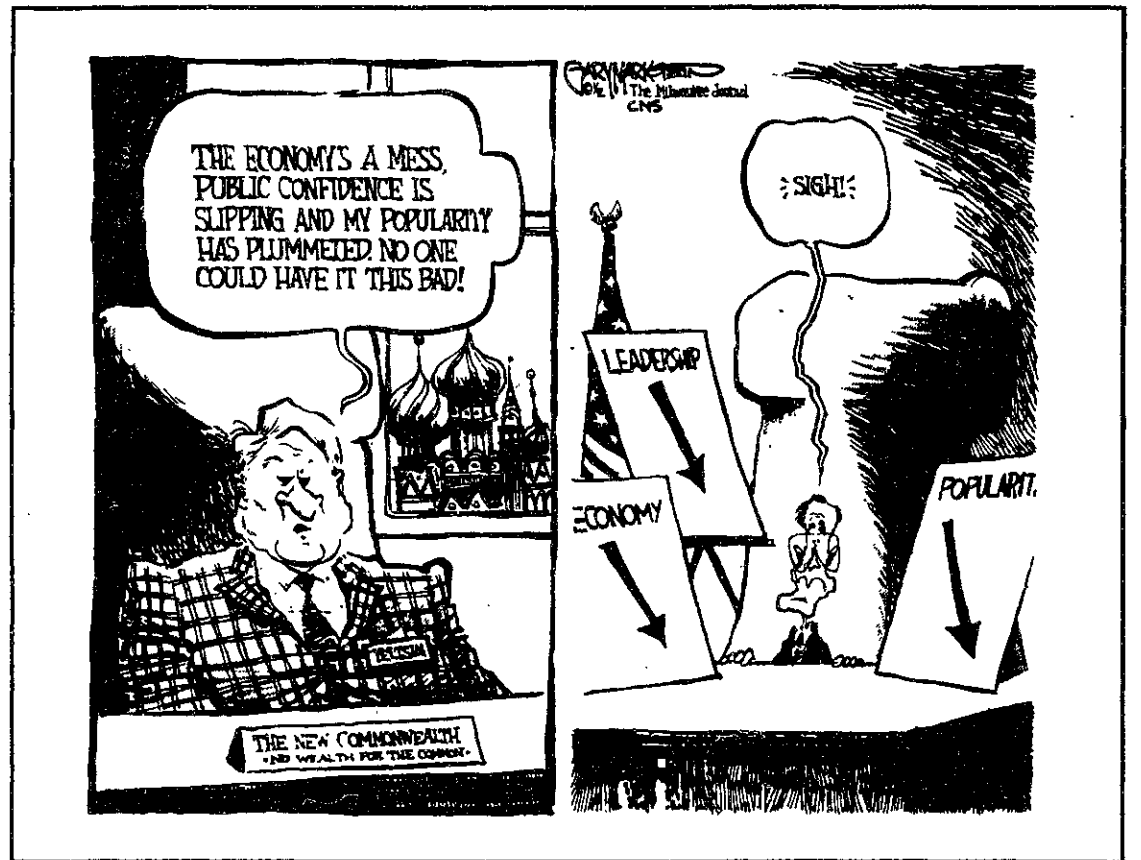
Sri Ramakrishna disciplined his life in accordance with many faiths, one after another, including various sects of Hinduism, Christianity, and Islam. He realized the divine ground in all faiths. He discovered that one and the same divine light had illuminated Moses, Jesus, Buddha, Zarathustra, and all other prophets of the past. He then declared that *religion is realization*, not mere philosophical or theological discussion. It is not possible to really understand what he realized without gaining an inner experience of your own. That experience transforms you permanently. You can no longer see individuals as separate. All creatures are your own self projected. You truly understand the meaning of the saying, "No man is an island," or "My

neighbor is thyself."

Sri Ramakrishna's subsequent utterances reflect the depth of his realizations. He boldly declared "As many faiths, so many paths." He explained that just as one and the same sun illuminates the entire solar system, but is called by different names in different languages, so also one God illuminates all beings. He is referred to as Allah, or Father in Heaven, or Buddha, or Brahman. The words are different but the meaning is the same. This concept of a universal religion was brought to the western world by Sri Ramakrishna's chief disciple, Swami Vivekananda, who presented it at the World Parliament of Religions in

Chicago in 1893. The Swami coined the word Vedanta to represent this concept of the harmony and unity of all religions, and the divinity of every soul.

The great world historian Arnold Toynbee once said that if we are to survive in this nuclear age there is no other way except to follow the ideas of harmony and unity preached by Sri Ramakrishna. May God bless us all so that we may learn from His representatives, the prophets, sages, and saints, of every religion, and make this world a beautiful place in which to live in happiness and peace.



LETTERS POLICY

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Dissents, marked as such and printed in a distinctive format, are the opinions of the signed members of the editorial board choosing to publish their disagreement with the editorial.

Columns and editorial cartoons are written by individuals and represent the opinion of the author, not necessarily that of the newspaper.

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Letters and cartoons must bear the author's signatures, addresses, and phone numbers. Unsigned letters will not be accepted. No letter or cartoon will be printed anonymously without the express prior approval of *The Tech*. *The Tech* reserves the right to edit or condense letters. Shorter letters will be given higher priority. We regret we cannot publish all of the letters we receive.

United States Needs to Scale Down Oversized Army

Column by Matthew H. Hersch
OPINION EDITOR

When the Revolutionary War ended in November 1783, George Washington disbanded his army and went home. But 200 years ago, America's defense posture was far from secure — Mediterranean pirates were seizing US vessels, British troops stationed in Canada were arming native Americans on the Western frontier, and war with France was looming on the horizon. Despite this, the United States did not need, or want, a large standing army.

Big armies didn't really make sense, unless the United States was facing a hostile, powerful aggressor on land — which it wasn't. Most Americans of the era feared that a big army would become a tool of oppressive governments, anyway, so for nearly a hundred years, the United States had little or no central army. Naval and marine forces finished off the pirates, a handful of frontiersmen under General "Mad Anthony" Wayne took care of the western problem, and private sailors commissioned as naval representatives muscled the French. If larger war ever came, the United States intended to activate its state militias. A small professional corps of marines and sailors, supported citizen-soldiers, would be the guardians of a young nation in an unfriendly world.

Not any more. Big American armies became a tradition only recently, and only in this century have they assumed the character of vastly centralized military bureaucracies. Consisting of just over 250,000 active troops in 1940, the U.S. Army has mushroomed ever since, peaking at over 8 million in 1945 and holding at just under 800,000 for the past decade or so. That's 800,000 too many.

No, I'm not talking about cutting defense in response to the receding Soviet threat and all of that. We never really needed such a big army these past forty years. The United States never really prepared itself to fight a conventional war with the Soviets and this truth was never a secret. The American military leadership knew it could never build a bigger army than the Russians, so it developed nuclear weapons and positioned large but inferior numbers of U.S. troops in trouble spots to intimidate the Soviets and comfort its allies. The U.S. let the Russians know that if these forces were attacked we would nuke first and ask questions later. Nuke deterrents were the basis of the defense — the big army was a placebo to soothe the egos of Presidents,

Army generals and the American public. Whenever we really needed ground forces to fight in some foreign land, it was the few, the proud, the strange, the Marines that went into action.

The Army, then, was always a waste of money, because we never even intended to use it. It sat around at wartime strength, tapping tax dollars. We only kept it because it soothed our European allies and looked good on TV. When we eventually did call on the Army to fight, it proved inefficient and out of practice. In Vietnam, sometimes as much as 93 percent of the Army was support personnel

"The Army, then, was always a waste of money, because we never even intended to use it."

that had never seen any action in the field, and the draft, necessary to maintained the swollen ranks, provided the Army with hundreds of thousands of untrained, unhappy corpses.

These days, the Army isn't much better. Sure, the 82nd Airborne Division has become a Rapid Deployment Force, but armed only lightly, it is no real answer to a foreign military threat. We still maintain the same old war-strength Army in addition to the RDF, despite the fact that we only really need large armies in time of war.

The Gulf War, many military analysts claim, bolstered the notion of maintaining a large standing conventional army. But the War was only easy because the Air Force scared all the Iraqis into surrendering before the Army ever saw any action. As a rapid-reaction force, the Army failed miserably. The first Army unit to deploy in Saudi Arabia, the 82nd, was too lightly armed to contain Saddam, and the badly-needed heavier forces took four months to arrive. The Army, we discovered, forgot to build ships to carry its trucks to war, and bought tanks too heavy to ship by air. All the time, Army leaders whined about not being able to fight without a million troops in the field, forgetting that they had been entrusted with defending U.S. interests abroad with light forces.

Once in battle, few Army units fired their weapons, and many, if not most, of the war casualties resulted from friendly fire incidents and mine explosions — injuries that result from commanders placing too many men and women on the battlefield. In most cases,

Marine units deployed on the ground performed the same functions as Army units, and in many cases, saw more combat action.

In the gulf war, the United States could have gotten by with only the Air Force, Navy, Marine infantry, and less than a tenth of the Army units it deployed. With better coordination from the President, such a force could have easily toppled Saddam.

But, surprisingly, in all the talk of cutting defense spending these days, it is the Marines that fear they may no longer have a role to fill.

The distinctions between the Army and Marines used to be clear. The Army, traditionally the wielders of heavy, mechanized warfare, was always viewed as vital to national defense. The Marines, the oldest of U.S. forces, were designed as a rapid reaction infantry arm of naval forces, a comfortable niche in which they performed well during most of U.S. history. With their own small air force, as well as ships for moving their equipment around, they gained a reputation as an anywhere, anytime foreign raider.

But when the cold war receded, the greedy hungry Army tried to broaden its role, organizing light, fast reaction units designed to parallel the Marines'. The newly diversified Army pushed the Marines out of their niche, and now the Marines fear elimination.

If any branch of the armed forces deserves the axe, it is the Army. Bloated and purposeless, its only credible mission today is that of a rapid assault force, a mission the Marines have more experience with, enjoy more, and can do better.

Dumping the Army doesn't mean sacrificing security. The current Marine Corps, together with a tighter, more streamlined corps of Army forces, could remain as a national defense body. If another Gulf War broke out, The President could send the Marines and one of the two or so remaining Army light divisions. If more troops were needed, the United States could send the rest of the active Army units and call up the Reserves to replace these troops on the home front. Right now, the large forces the Army supports require an immense logistics apparatus — truck drivers, cooks, and other specialists. These are the forces that now get called to action in time of war, because they are needed to support the bloated military. One nice feature of the new plan is that, with streamlined, self-reliant forces, even if Reserves are called to fight, they would never leave the country — only replace home defense units. The result of this plan would be

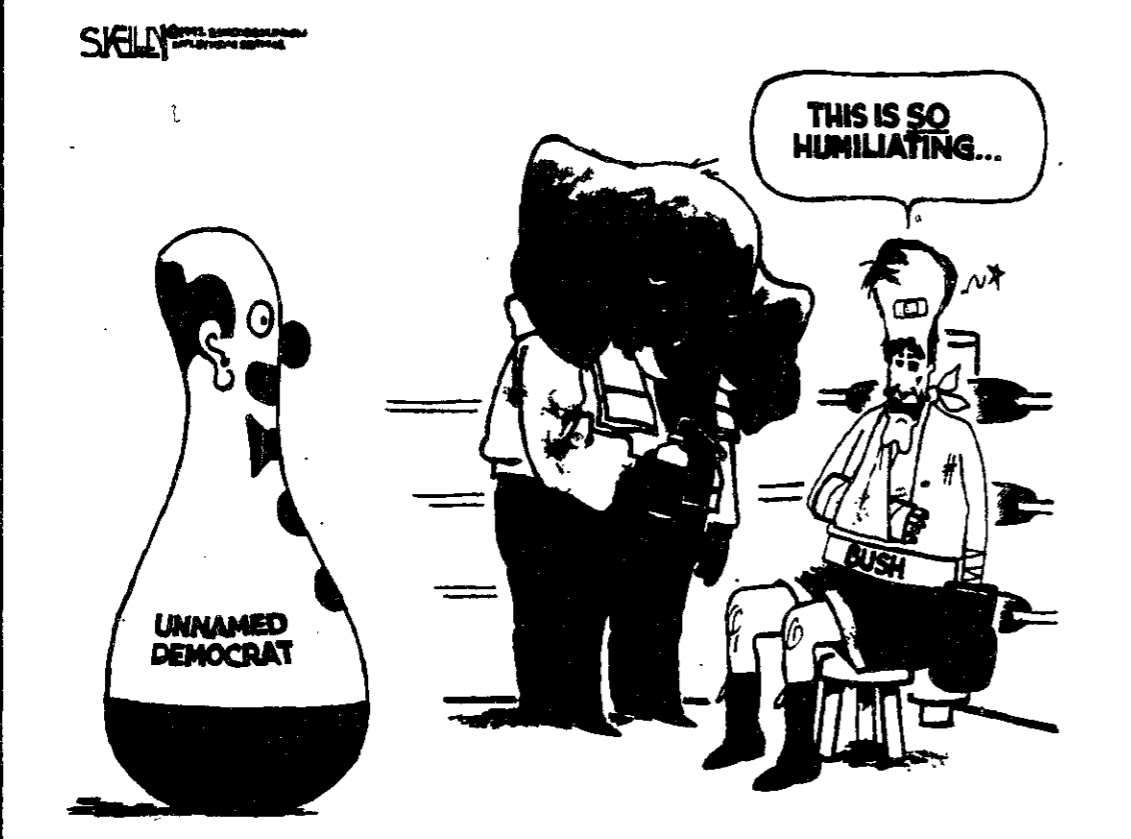
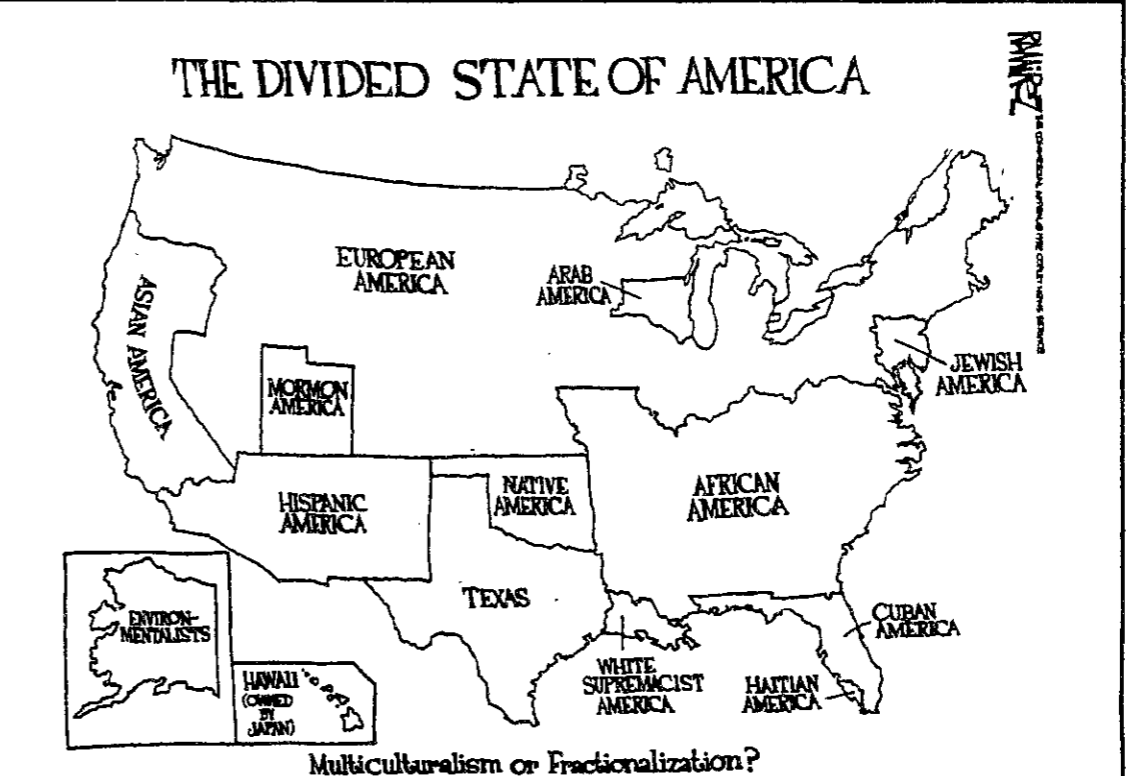
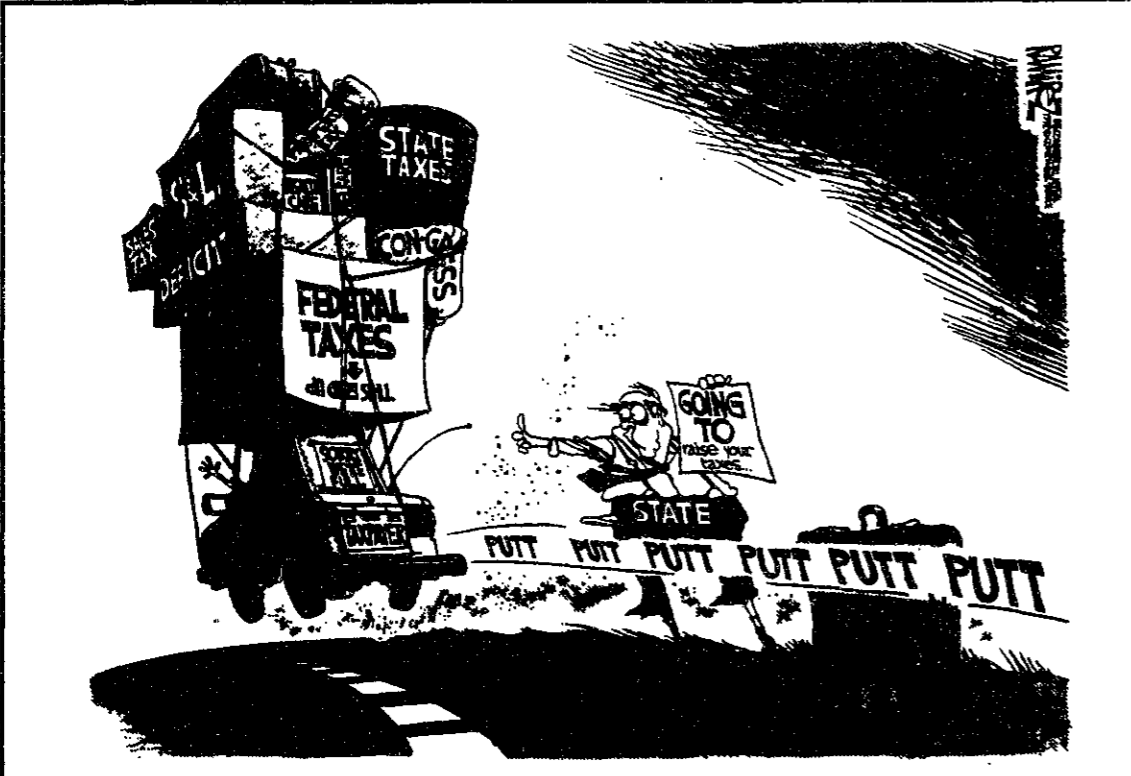
a core group of professional soldiers who do all of the real fighting, and weekend warriors who would earn pay and benefits for serving, essentially, as the town militia.

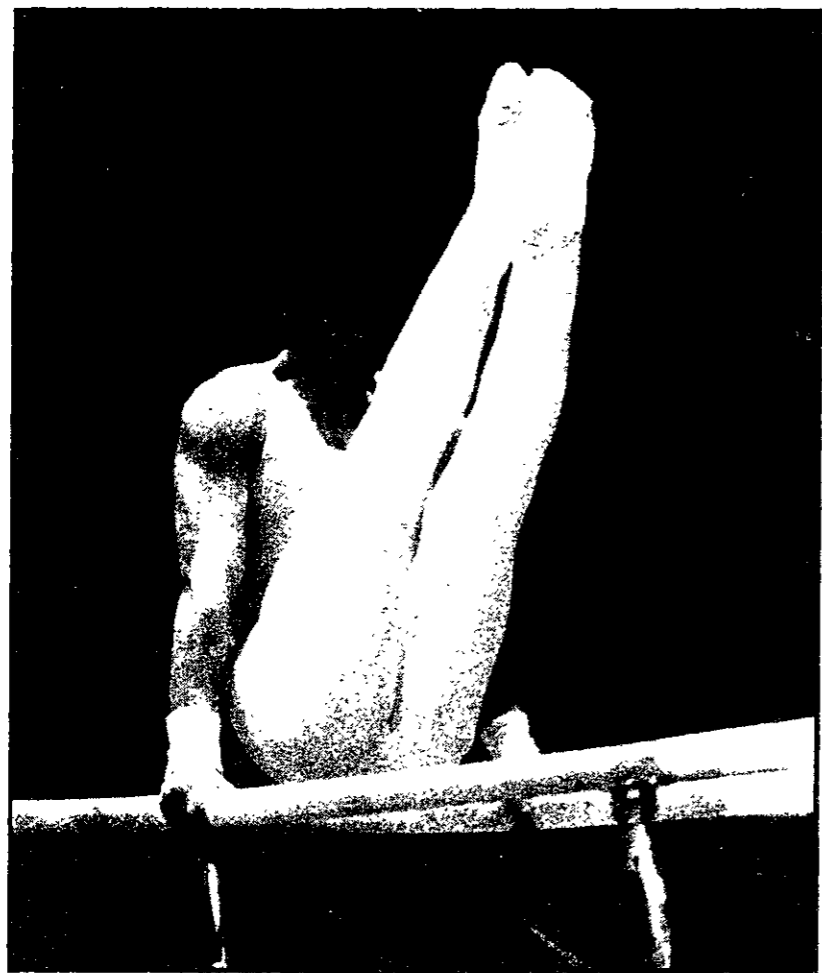
Here, then, is my super comprehensive plan to cut defense spending:

- Eliminate all active duty forces of the United States Army except one Field Army encompassing the 82nd Airborne Division, the 101st Airborne Division, the 1st Cavalry Division and the 1st Infantry Division. This would mean the elimination of roughly 700,000 active-duty personnel. Home bases for eliminated units would be closed accordingly.
- Bring the Army Reserves to combat-capable status and maintain them as the new bulwark of national defense.
- Eliminate U.S. Army garrisons in Europe and Asia, and air bases designated only to support them.
- End massive procurement of weaponry for the U.S. Army.
- Add one division to the current three that compose the U.S. Marine Corps, with the specific mission to contribute to international military forces.
- Rearm all three of the present-day Marine divisions as mechanized rapid-reaction forces, armed more heavily than present-day Army Rapid Deployment Forces.

"Dumping the Army doesn't mean sacrificing security."

- Eliminate the B-2 Stealth bomber program.
- mothball one U.S. Navy aircraft carrier group.
- Shift all Air Force funding now spent on surface-to-surface missile forces to missile defense research.
- Replace all tactical nuclear weapons with air and sea launched Fuel-Air-Explosives — the cheap, recyclable, environmentally friendly nuclear weapon for the Greenpeace generation.
- Dismantle all ground-launched strategic nuclear missiles under Army and Air Force command. Maintain and modernize submarine and air-launched nuclear and FAE arsenal.
- Consolidate the U.S. Special Operations Forces, placing them under the Navy's control.





STAFF PHOTO BY MORGAN CONN
Chikjung Won '94 balances on the parallel bars at Saturday's men's gymnastics meet in DuPont Gymnasium against the University of Vermont. MIT lost the meet.

Harkin Presents Four-Point Plan To Audience at Harvard University

By Sabrina Blmer

Addressing a full house at Harvard University's John F. Kennedy School of Government last Thursday, Democratic presidential candidate Tom Harkin presented a four-point foreign policy plan that emphasized human rights, restructuring the military, and creating economic security at home.

Harkin, a second-term senator from Iowa, said that human rights, rather than political considerations, should be the basis by which the United States chooses who receives American assistance.

"This is not just good morals," he said, "it is good policy and good economics."

Harkin emphasized his point on the Senate floor the next day, when he introduced a bill that would restrict aid to countries that spend more on their military than on health and education.

He denounced President Bush's

support for China after the Tiananmen Square massacre, for South Africa's apartheid regime, and for the current Haitian government.

A cornerstone of what Harkin calls his "value-based foreign policy" is a commitment to strengthening infrastructure and indigenous food supplies in developing countries, especially in Africa. In the long term, he said, this would open new markets for American products.

Harkin said he would like the Middle East peace talks to be tied to democratic reforms in countries such as Syria and Saudi Arabia. He also advocated humanitarian assistance to the people of the former Soviet Union.

'Preventive diplomacy'

Harkin proposed to diminish security risks by applying what he calls "preventive diplomacy." He said he would reduce the potential for armed conflict by calling for

global arms reductions, limiting arms sales and strengthening such international organizations as the United Nations and the Organization of American States.

To reduce the threat of nuclear weapons, Harkin said he would enact bans on nuclear testing, weapons in space, and production of weapons-grade nuclear materials.

Next to the nuclear threat, global environmental degradation has "the greatest long-term potential for diminishing our nation's security," Harkin said. The crowd applauded when he said environmental concerns should be an integral part of our foreign policy. The senator recommended that the United States take a more active role in international environmental negotiations.

Military, economic restructuring

Harkin said that the end of the Cold War requires a complete

Harkin, Page 7

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Student contest \$300. According to my simple arithmetic the moon on 1/26/90 should have left earth's orbit. I am offering \$300 to the first student who can show why my figures were wrong. Send SASE for particulars. René, 10830 Oakdale Ave., Port Richey, FL 34668.

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Harkin Presents Platform

Harkin, from Page 6

restructuring of the U.S. military. Harkin, a Vietnam-era veteran and former Navy pilot, proposed to "reduce military expenditures by 50 percent within a decade" while still protecting U.S. national security "better than at any time since World War II."

In his speech, Harkin called for bringing most U.S. troops home from Europe and limiting the production of weapons designed primarily to counter threats from the former Soviet Union. He proposed to rely instead on a mix of flexible, mobile forces that could react quickly to flare-ups anywhere in the world. Harkin vowed to make the U.S. military "the best trained and best equipped in the world."

Saying that "military and diplomatic might is predicated on economic might," Harkin recounted the economic problems the United States faces today. He claimed that over the next 10 years, his military restructuring plan would create a peace dividend of \$420 billion in 1992 dollars. Harkin proposed to earmark one-third of that money for deficit reduction, and to devote the remainder to a special "fund for rebuilding America" that would strengthen the country's infrastructure and provide better education, job training, and health care. Harkin

said he plans to have a national health care plan in place by the fall of 1993.

Saying that 6,800 jobs are created for every \$1 billion transferred from military to domestic spending, Harkin claimed his military downsizing would add one million jobs in the long term.

To further strengthen the economy, Harkin favors stronger free trade agreements and a stronger and more open industrial research and development partnership between universities, the private sector, and the government. His proposal includes the abolition of the Defense Advanced Research Projects Agency (DARPA), which sponsors some research at MIT.

Harkin clearly enjoyed his rapport with the crowd during a largely enthusiastic question-and-answer session. Referring to the Americans with Disabilities Act and to progress in civil rights and women's rights, Harkin said, "when we break down barriers, we become a stronger country." He chided Bush for including only "23 white men, no women, and no minorities" in his recent delegation to the Far East.

Asked about gay rights legislation, Harkin said that though he would not sponsor such legislation, as president he would certainly sign it if it were placed before him.



STAFF PHOTO BY DAVID HENRY OLIVER

Denise Nemchev '92 (left) and Tania Pinilla '92 force Wellesley's guard to pass out of a full court press at a home game Jan. 23. The MIT women lost 75-56.

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Government Agencies Present Findings to House Subcommittee

Audit, from Page 1

DCAA and ONR presented testimony concerning Stanford, MIT,

and Pennsylvania State University, among others.

For the first time, the DCAA said it had two disagreements with

MIT's budget for fiscal year 1990, but noted that MIT had not had sufficient time to respond to them. The agency contested the billing of a

biology retreat and limousines used by trustees to take Corporation members to meetings during FY 90. MIT's FY 92 audit is still being edited, Culliton said.

Culliton justified the retreat as "totally valid research," saying there was an agenda and that about 40 professors and 200 graduate students presented speeches about research they had performed.

He said that the limousines in question were actually MIT Corporation cars, and that because Corporation members do not receive compensation for their work, it is reasonable that their transportation costs were covered. He added that if the Corporation members had been transported by taxi, the charge to the government would have been considered appropriate.

None of these costs will be allowed under the new OMB standards.

In response to the GAO's criticisms, the DCAA admitted there had been an oversight in regard to 175 Albany St.

MOUs contain withdrawal terms

The DCAA testified that it had sought a legal opinion from ONR counsel to justify its actions regarding the retraction of MOUs.

The MOUs can be retracted if the university does not follow the terms of the agreement, if the gov-

ernment thinks the agreement is no longer beneficial, or if a retraction is allowed in the terms of the agreement, a national DCAA spokesman said.

The DCAA had approved all of MIT's MOUs in February 1991, saying that "we have determined that in all cases the contractor [MIT] is in compliance with the terms of the MOU and the bases for the MOUs are reasonable." However, it changed its stance in a September 1991 report, saying that eight of the MOUs "are, in some respects, inadequate to ensure equitable distribution of costs to government-sponsored awards."

"We recognize the government's right (and MIT's obligation) to discuss reasonable revisions, where appropriate, on a prospective basis, but object in the strongest possible terms to DCAA's attempt to retroactively alter MOU's negotiated by MIT in good faith," stated MIT's response to the FY 92 audit.

One MOU in question covers the library cost recovery rate. The 49 percent rate fixed by the MOU for five years was advantageous to the government, claimed Culliton. During those five years, MIT suspended the regular studies it uses to validate the recovery rate, he added.

The DCAA suggested in its audit that the recovery rate should have been 21 percent for some of that period.

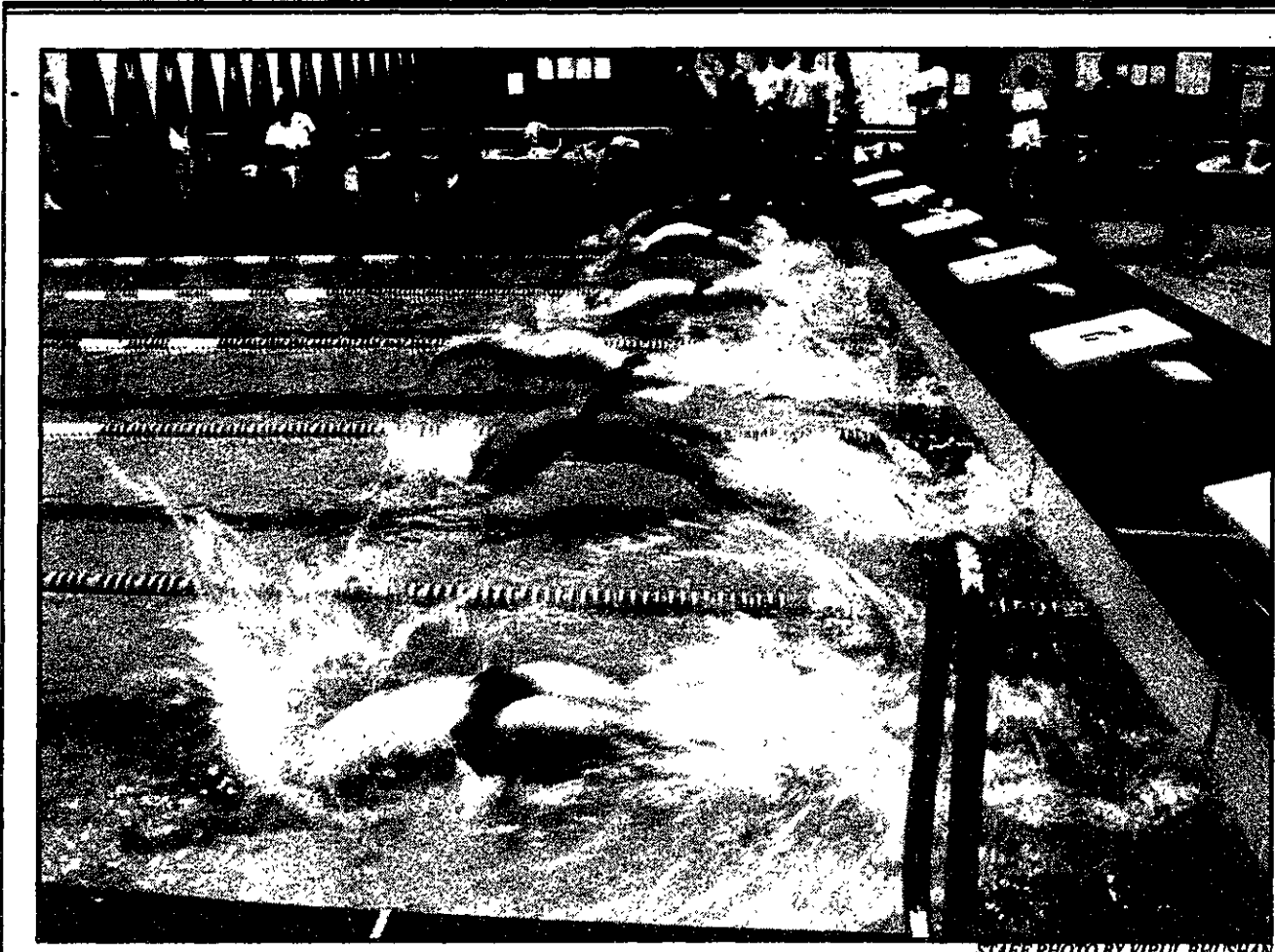
The agency claimed its "analysis of the library cost recovery indicates that a single research recovery rate is not equitable because the costs of the libraries do not closely correlate with the distribution of research by school." They said that the libraries in the Schools of Architecture, Humanities and Social Science, and Management cost about 50 percent of the total library cost, but account for only 4 percent of research.

Foreign rates lower

Dingell also expressed concern that certain universities offer lower indirect cost recovery rates to foreign governments.

"We are curious why these universities negotiate for top dollar plus some when dealing with the American taxpayers, but give preferential treatment to foreign governments and other people," he said.

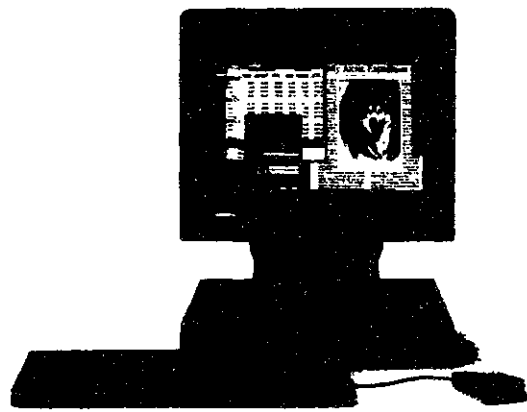
The HHS testified that 10 of the 14 schools it audited charged lower rates to foreign governments and public interest organizations. Reasons for this practice included "a greater concern for adding to a body of knowledge in a particular discipline than for obtaining the highest possible recovery of overhead," encouraging "the development of young researchers" and helping certain public interest organizations which impose limits on reimbursement of indirect costs.



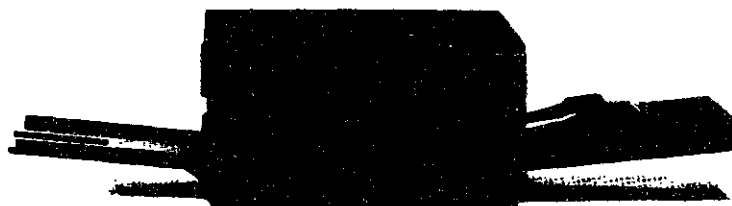
STAFF PHOTO BY VIPUL BHUSHAN

Members of the men's swim team slice into the water in the 50-yard backstroke at a meet against the University of Massachusetts at Dartmouth last week. Swimming for MIT are Dinesh Lathi '92 (lane 6, top), Matt Beaumont '92 (lane 4) and Vijay Lathi '94 (lane 2).

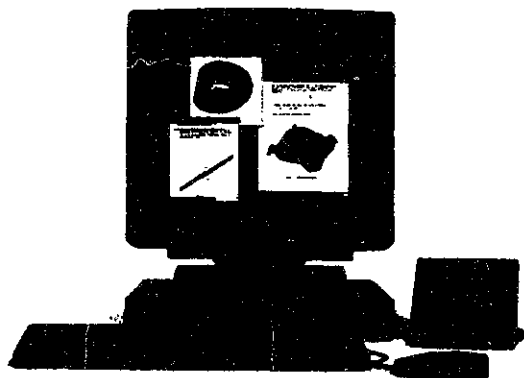
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New Grad Student Status Raises Indirect Cost Issues

ABD, from Page 1

program cannot live in MIT graduate student housing, cannot use a "variety of Institute facilities, including labs," and are not allowed to receive any monetary support that flows through MIT, according to Perkins. "The dean has flexibility, though," Perkins added, "and will waive some restrictions if doing so will not deprive a resident student."

ABD linked to indirect costs

Changes in MIT's budgeting procedures caused by the ongoing investigation into MIT's indirect costs provide a "window of opportunity" for other changes, including the adoption of ABD status, Cebon said. Perkins said that the administration is in fact "reviewing the whole process by which graduate students are funded."

Provost Mark S. Wrighton has organized an ad hoc committee to investigate the possible links between the federal investigation and ABD. Anjali Sastry G, a member of the Ad Hoc Faculty and Administration Committee on Indirect Costs and Graduate Student Tuition, explained that graduate students must weigh the pros and cons of the issue in relation to the investigation. She said that ABD status would most likely lower the number of graduate students at MIT, and current graduate students must decide if that situation is desirable.

For example, Sastry said fewer graduate students would mean "fewer MIT students competing for the same jobs. However, there would also be less community and less communication among the graduate students."

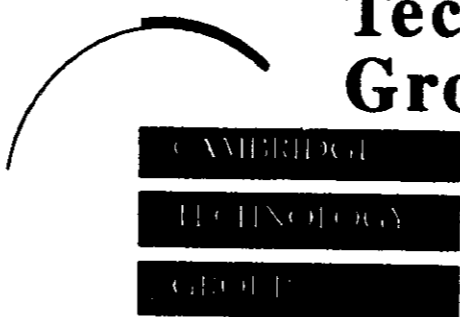
According to Cebon, if the federal government's investigations force MIT to stop paying graduate student tuition through the employee benefits pool, which also funds things like health insurance, then it will cost professors more to hire graduate students to work in their labs. Graduate students would then cost a professor almost as much to hire as a postdoctoral fellows. This would probably result in a loss of graduate student laboratory jobs, Cebon said.

If ABD is established, then the Institute will lose graduate tuition income, and that money will have to be earned from other sources, such as undergraduate tuition, Cebon said. On the other hand, if graduate students cost less to employ in labs, MIT professors competing for research grants will be more competitive because their bids would be lower, due to the low tuition of students on ABD status, according to Cebon.

Litster emphasized that current graduate students will not be affected by the government audit. "No students will lose their assistantships unless the professor they work under loses his grant" for other reasons, Litster explained.

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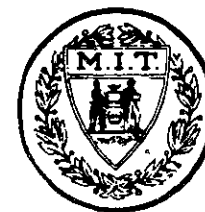
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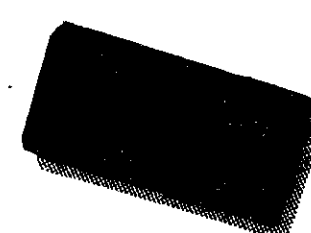
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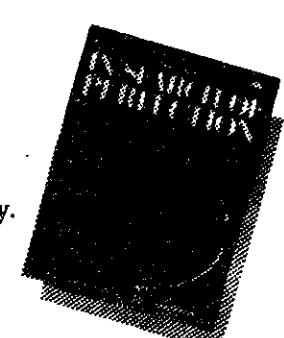
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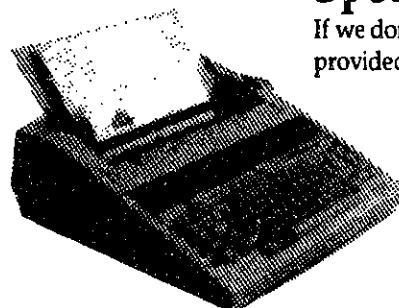
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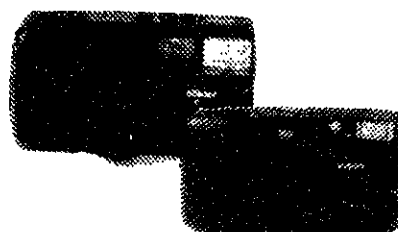


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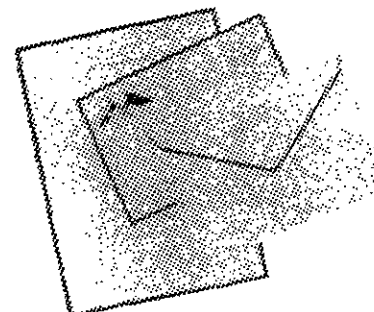
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Students See HASS-D As an Improvement

HASS-D, from Page 1

of the School of Humanities and Social Sciences.

Some HUM-D graduates disagreed with Khoury. "I think I got a good, diverse background in the humanities [with HUM-Ds]. I didn't 'cluster' my classes around a particular field — I've taken classes in anthropology, music, philosophy, and science fiction literature," said Andrew A. Bennett '85. Bennett graduated with a concentration in film studies.

Deborah A. Levinson '91 said she felt the HUM-D system afforded her "a great deal of breadth in the courses I took. I took classes in languages, writing, literature, women's studies — MIT has a lot to offer in the humanities." She said it was easy to fulfill the HUM-D requirement because "in any department, there would be at least one HUM-D. It doesn't seem that there are many choices with HASS-Ds. . . . With HUM-Ds at least you had the illusion of free will."

Stacey Au '92, a 1991 Burchard Scholar, endorsed the HASS-D system because it requires students to take classes in different fields. "It's good because there are many classes that you wouldn't seriously consider taking except for the fact that they are required," said Au, who took six of her eight HASS classes from the music and arts section.

Au also recognized some flaws in the HASS-D program, including the requirements that all classes have a midterm, a final, and at least 25 pages of writing. She said these requirements are often not taken seriously by professors.

Sergin Tofamel '93 said, "I've gotten a good humanities background, but not necessarily because of HASS-Ds." However, Tofamel said he still has a "choice in picking classes rather than feeling bound by restrictive HASS-D requirements."

Since this year's seniors are the first to complete four years under

the HASS-D program, a proposal to chart the "HASS-D profile" of the class of 1992 is under consideration. The study will include a statistical analysis of concentrations, majors, minors, and popular classes in the HASS departments, Davis said.

HASS-Ds improve on old system

According to last October's *Interim Report on the HASS-Distribution Requirement*, presented by the HASS-D Overview Committee, the change from HUM-Ds to HASS-Ds "was designed to promote breadth in a manner that complements the concentration component and to provide a more structured and intellectually coherent overall HASS requirement."

"HASS-Ds represent a tighter, smaller, and more monitored version of the distribution requirement than the previous HUM-Ds," Davis said. The HASS-D system affords closer oversight of the distribution system because monitoring is done by five HASS-D subcommittees and the HASS-D Overview Committee, Davis said.

"HASS-D courses are mandated to allot at least a third of class time to small section discussions; there was no such requirement for HUM-D classes," Khoury explained. "The overhaul of [the HUM-D] system to HASS-Ds allowed a refinement of categories and the classes offered. Professors were allowed more freedom to design their classes, and as a consequence almost half of the 74 HASS-D classes are new or improved versions of older HUM-D classes."

Humanities classes are now split into fewer categories and subjects than they were under the previous distribution system. The 74 HASS-D courses are divided into five categories, in comparison to the 160 HUM-D classes which were divided into 15 fields. Courses which lost the "distribution" classification are now listed as regular HASS classes in course catalogs.

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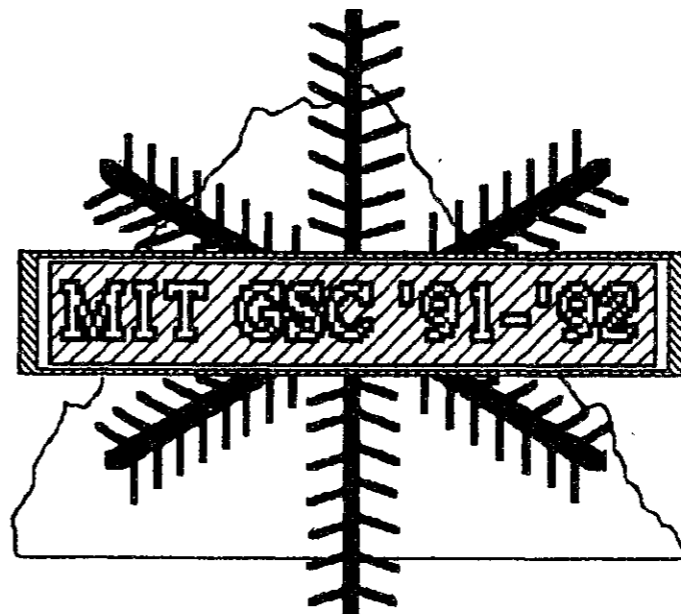
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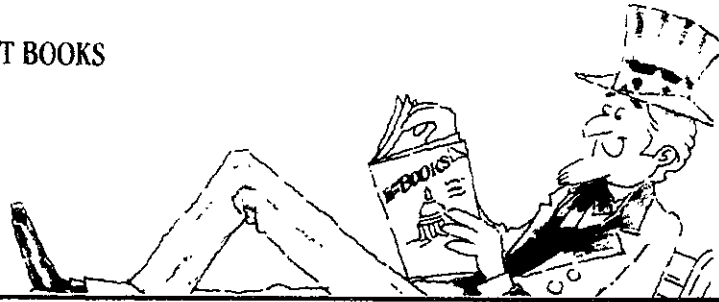
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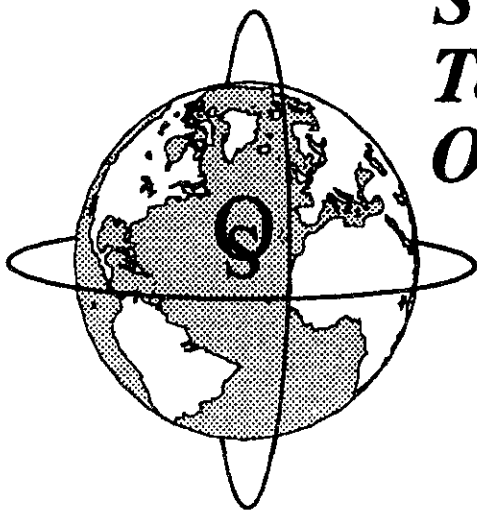
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Smith Appointed to Head Combined Dean Position

Council, from Page 1

stands the historical origins and intentions in connection with enhancing the undergraduate educational experience," Wrighton said.

Smith feels strongly that focusing on undergraduate education is necessary at MIT. "It's not that a program of [the late Dean for Undergraduate Education Margaret L. A. MacVicar '65's] has been handed to me that I know nothing about, because I was very much involved when it started; I have been involved along the way, and I have some feelings and energy about how it needs to look forward." Smith said he would address issues in "a rather different style."

Making Smith the head of the combined offices does affect students, said Godfrey. "He controls the scope of undergraduate activities, both extracurricular and curricular. As long as there's a good person in that office who cares about undergraduates," the change is beneficial for students, he said.

Widnall has many tasks

Wrighton said that one of Widnall's primary responsibilities will be to head the new Council on Federal Relations. The council, made up of faculty and administrators, will be MIT's "principal contact in terms of developing interfaces for legislative and executive dealings" with MIT's office in Washington, D.C.

Wrighton said he was not aware how much Widnall knows about the Pentagon's current audit of MIT. "But I suspect she will soon come up to speed like many other members of the Academic Council."

Widnall will lead an MIT study on the issues surrounding the suspension of mandatory faculty retirement in 1994. Also, she will guide the implementation of a recent report on MIT's international relationships.

In addition, Widnall will review MIT's *Policies and Procedures* with respect to academic promotions and tenure. The review will partially satisfy the terms of a settlement made last year with former Associate Professor David F. Noble.

The settlement, made out of court, specified that MIT conduct a review of its tenure procedure. Wrighton said, "My interests are broader than those expressed by David Noble, but we will be able to fulfill Noble's interests in seeing the review goes on."

Wrighton is confident that Widnall will be able to handle her varied responsibilities. "She has an

excellent track record of doing a great deal," he said.

Keyser's new responsibilities "more accurately reflect where I think his personal strengths lie and in areas in which he's indicated he would really like to work," Wrighton said. Furthermore, Keyser will "keep us on our toes with respect to the fact that administrators serve the faculty, administrators serve the students, and he'll also be a point of contact in connection with student activities."

Litster said he hopes "research will continue to flourish at MIT." He said he will work toward this goal by improving MIT's relationship with Washington, improving internal management, and continuing to try new things. This will be a challenge in a time with no new resources, he added.

'Last pieces of administration'

"Our intent was to make appointments which would most effectively lead to good management, have an element of continuity, an element of innovation, and minimize bureaucracy," Wrighton said. "Since [Vest and I took office], we knew there would be appointments to make, and it takes time to identify the right people and to come up with discussions with individuals and with groups. You find as you come to know people, their interests and talents lie in areas you know need to be covered. Structure needs to be changed to accommodate the individuals who emerge as leaders," he said.

Wrighton said he discussed the agenda in considerable length with MacVicar when she was alive. "The mission was not finished, and it's now our collective responsibility to fulfill a lot of the vision [MacVicar] held."

Keyser said these changes are coming about for several reasons. "For one thing, the death of Margaret MacVicar required that the administration take a new look at the organization." Also, people left positions for certain reasons, such as Professor Kenneth A. Smith, who returned to his faculty post, he said. And since the president and the provost have now been in office for over a year, "it was time for changes to be made," Keyser said.

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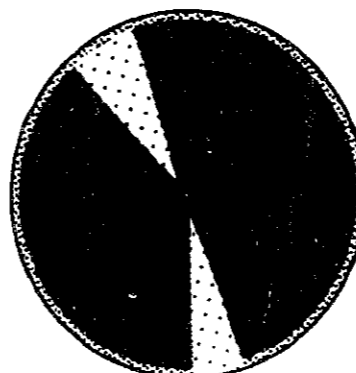
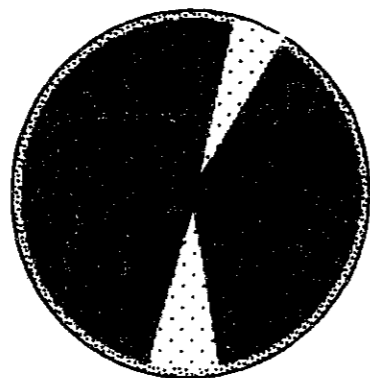


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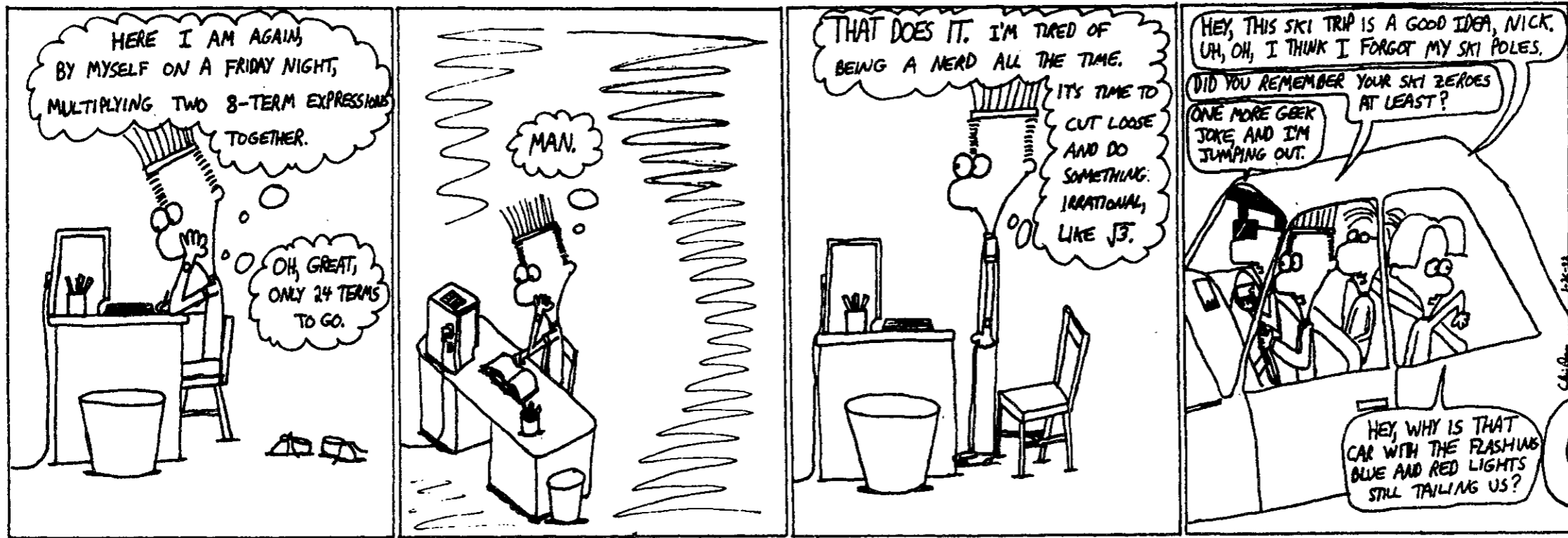
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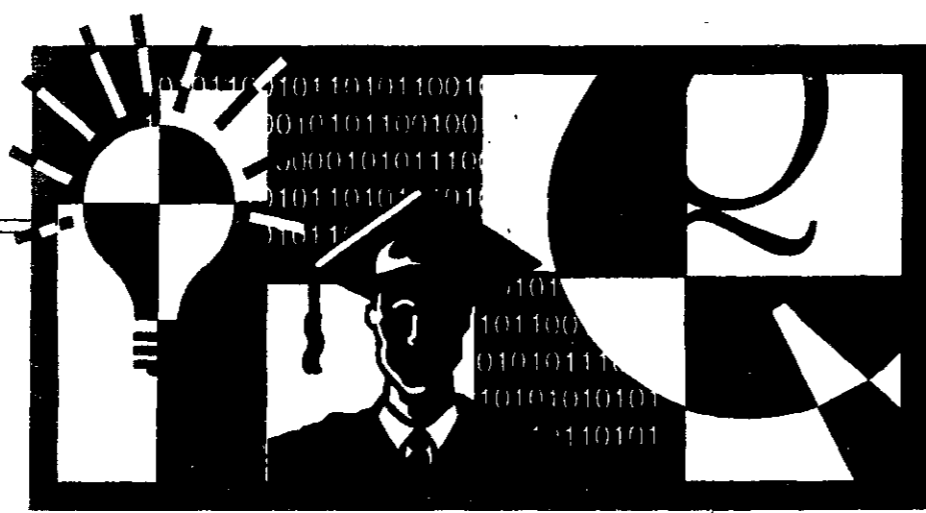
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On-campus interviews for Engineering students Monday, February 3rd. See your Career Placement Center for more details.

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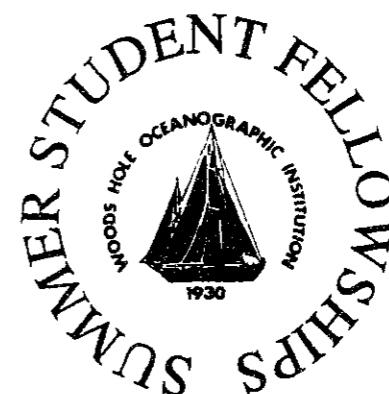
Tim Heilig, B.A. in Computer Science, Member Scientific Staff, Dallas, Tx.



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Jim's Journal

by Jim

I worked at the copy store today.

Hal put me to work with some boxes of paper.

We started stack- ing boxes and she said, "You're new here."

I told her that I suppose you could say I'm new even though I've worked there almost a month.

Jim's Journal

by Jim

Today when I fed Mr. Peterson, she just moped and walked away.

she normally gets really excited when it's time to eat.

At the copy store today I had to make a whole bunch of copies of something.

They were on 8 1/2" x 14" paper.

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Graduation marks the start of a whole new adventure. Your mission? To find a job and a company that give you the space and resources to develop your potential. Now's your chance to explore the possibilities at Space Systems/Loral in Palo Alto, California.

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Join us for an on-campus interview on February 21, 1992



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THE ARTS

Norrington creates energy with the BSO; Cantata Singers find new intensity

BOSTON SYMPHONY ORCHESTRA

Conducted by Roger Norrington
Program of works by
Berlioz, Martinu, and Mendelssohn.
Symphony Hall, Jan. 23, 24, 25 & 28

THE CANTATA SINGERS

Conducted by David Hoose
Works by Schütz, Harbison and Mozart.
Jordan Hall, Jan. 25.

By Jonathan Richmond
ADVISORY BOARD

Welcome back to Roger Norrington, whose concerts with the BSO last weekend once more drew something special from the orchestra. Above all there was energy — the musicmaking had the hallmark Norrington feel of a dance, a lusty and enthusiastic dance.

First came a Berlioz overture, done as only Norrington knows how. Fast-paced, tightly-woven, and fun, it brought a celebratory start to the evening.

The rarely-performed Symphony No. 6, "Fantaisies symphoniques," composed for the BSO by Martinu, came next. This is a complex piece, but Norrington evinced a performance of complete clarity, full of drama and tension. There was a mystical element to the glorious mix of sounds we heard.

The program ended with Mendelssohn's *Symphony No. 5*, adrenally given, yet full of pathos. The piece progressed with a dance-like lightness, but was majestically-shaped as well. The chorale, "Ein feste Burg ist unser Gott," was played beautifully, in a sadly penetrating way. This was a great performance.

The most unusual item on last Saturday's program from the Cantata Singers came from MIT composer John Harbison, and featured MIT staff member Gloria Raymond. Harbison's *Elegiac Songs*, dating from 1974, is a painful work,

and intentionally so: his music sets poems by Emily Dickinson on themes of death.

Raymond's singing was intense, and matched by the ensemble led by David Hoose. Listening to this work was in some ways an unnerving experience — the music, like death, seeming to grip ever harder as the end approached — but art does not have to be pretty to be worth paying attention to.

The most successful items on the program were the works by Schütz which opened the evening. The motets from *Geistliche Chormusic* were sung by both soloists and chorus with purity and control, surrounding the audience with sounds of ecstatic beauty.

There were some penetrating aspects to the performance of Mozart's *Mass in C minor* with which the program ended: Jeanne Ommerlé's *Et Incarnatus Est* was particularly piquant. Both chorus and orchestra projected strongly, and this was an enjoyable ending to the program, if not one showing the full originality of which David Hoose and the Cantata Singers are capable.



STAFF PHOTO BY JONATHAN RICHMOND



ON THE TOWN

Friday, Jan. 31

JAZZ MUSIC

Gloria Lynne sings at Scullers Jazz Club, Guest Quarters Suite Hotel, 400 Soldiers Field at 8:30 pm and 10:30 pm. Also Feb. 1. Tickets: \$14. Tel.: 783-0811.

Ronnie Earl and the Broadcasters perform at Nightstage, 823 Main St., Cambridge, at 9 pm. Tickets: \$10. Tel.: 497-8200/9287.

CLASSICAL MUSIC

The Boston Symphony Orchestra, conducted by Seiji Ozawa, performs Mahler's *Symphony No. 6* at 2 pm in Symphony Hall (Symphony 2 stop on the 'E' line). Also on Feb. 1 and Feb. 4, both nights at 8 pm. Tickets: \$19-\$52.50. Telephone: 266-1492.

Handel & Haydn Society performs *Symphony No. 22* in E Flat at 8 pm in Jordan Hall at the New England Conservatory. Tickets: \$16. Telephone: 266-4048.

THEATER

Cabaret, the MIT Musical Theatre Guild's production of the Tony-award-winning musical by Kander and Ebb, opens at 8 pm in the Sala de Puerto Rico. Also performing Feb. 1-2 and Feb. 6-8. Tickets: \$8, \$7 seniors/faculty, \$5 students. Tel.: 253-6294.

The Rake's Progress, by Stravinsky, will be presented by New England Conservatory Opera Theatre and Opera Studio (John Moriarty, conductor; James Robinson, stage director) at 8 pm in Emerson Majestic Theater. Also Feb. 1 and 2. Tickets: \$10, \$8 students. Telephone: 262-1120 ext. 257.

DANCE

The Paul Taylor Dance Company performs *Aias, Lost and Found and Lost*, and *Company B* at 8 pm and also on Feb. 2 at 3 pm, at the Wang Center as part of Bank of Boston's *Celebrity Series*. Tickets: \$20.75-\$28.75.

Muntu Dance Theatre, an African dance company presented by Dance Umbrella, performs at 8 pm in the Strand Theatre, 543 Columbia, Dorchester. Also Feb. 1 at 8 pm. Tickets: \$14-\$22. Telephone: 492-7578.

FILM & VIDEO

Lawrence of Arabia (1946, David Lean) will be shown at the Brattle Theatre in Harvard Square at 3:30 & 8 pm. Also Feb. 1 at 12, 4 & 8:10 pm. Admission: \$5.50. Telephone: 876-6837.

The Museum of Fine Arts, 465 Huntington Ave., Boston, presents *Fit: Episodes in the History of the Body* (1991, Laurie Block) at 5:30 pm. Tickets: \$5, \$4.50 students. Telephone: 267-9300 ext. 306.

Night of Counting the Years (1973, Shadi Abdelsalam) as part of the Media Lab's Egyptian Cinema film series, will be screened in the Bartos Theater, Weisner Building (E15), 7-10 pm.

Saturday, Feb. 1

JAZZ MUSIC

Gloria Lynne sings at Scullers Jazz Club at 8:30 pm and 10:30 pm. See Jan. 31 listing.

Le Maître de Musique (1988, Gerard Corbiau) will be presented with English subtitles by the French Library of Boston, 53 Marlborough Street at 8 pm. Also Feb. 1 & 2. Tickets: \$4. Telephone: 266-4351.

CLASSICAL MUSIC

The Lydian String Quartet plays William Schumann's *Quartet No. 2* at 8 pm in Slosberg Recital Hall at Brandeis University. Tickets: \$10, \$5 students. Telephone: 736-3331.

The New World String Quartet and pianist David Devaux present Prokofiev's *Quartet No. 2* and works by Mozart and Dvorak in Kresge Auditorium at 8 pm. Tel.: 253-2906.

THEATER

The Rake's Progress, by Stravinsky, will be presented by New England Conservatory Opera Theatre and Opera Studio (John Moriarty, conductor; James Robinson, stage director) at 8 pm in Emerson Majestic Theater. Also Feb. 1 and 2. Tickets: \$10, \$8 students. Telephone: 262-1120 ext. 257.

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All Newton Music School of West Newton presents soprano Karol Bennett and pianist John McDonald at 8 pm to perform works by Brahms, Strauss, Copland, and more. Tickets: \$15, \$10 students. Tel.: 527-4553.

Tokyo String Quartet performs in Jordan Hall at 3 pm featuring works by Haydn, Britten, and Beethoven. Tickets: \$23-\$25.

Boston Shawm & Sackbut Ensemble performs at 1:30 pm at the Gardner Museum, 2 Palace Road, Boston. Free with museum admission, \$6/\$3 students. Tel.: 566-1401.

THEATER

The MTG performs *Cabaret* at 8 pm. See Jan. 31 listing.

The Rake's Progress will be performed by NEC Opera at 8 pm. See Jan. 31 listing.

DANCE

The Paul Taylor Dance Company performs at 3 pm. See Jan. 31 listing.

FILM & VIDEO

The French Library in Boston presents *Le Maître de Musique* at 8 pm. See Jan. 31 listing.

The Harvard-Epworth United Methodist Church, 1555 Mass. Ave., Cambridge, presents *Summer Storm* (1944, Douglas Sirk) at 6 pm. Contribution: \$3. Telephone: 354-0837.

Tuesday, Feb. 4

JAZZ MUSIC

The David Azarian Trio performs at Scullers Jazz Club, Guest Quarters Street Hotel, 400 Soldiers Field. Tickets: \$6. Telephone: 783-0811.

CLASSICAL MUSIC

The Boston Symphony Orchestra performs at Symphony Hall. See Jan. 31 listing.

The Holy Cross Chamber Players present *20th Century Music for Harpsichord, Voice, and Diverse Instruments* at 8 pm in Fenwick Chapel, College of the Holy Cross, Worcester. Free. Telephone: (508) 793-2296.

New England Conservatory presents an evening of works by NEC composition students at 8 pm in Williams Hall. Free. Telephone: 262-1120 ext. 257.

THEATER

DeDondo, a story about Central American refugees in the Rio Grande Valley of Texas, opens at 8 pm at the Schwartz Hall Auditorium, Brandeis University, Waltham, with 6 more performances Feb. 5-9. Tickets: \$6 (\$8-\$10 Feb. 5-9). Telephone: 736-3402.

Ongoing Theater

Base Camp, a look at three days in the lives of five different women trapped together during a blizzard, continues through Feb. 15 at the Triangle Theater Company, 105 Charles Street, Boston. Tickets: \$15. Telephone: 426-3550.

A Chorus of Disapproval, the story of a shy widower advancing through the ranks of a light opera company, plays Tue.-Sat. at 8 and Sun. at 3 & 7 at the Laurie Theater at Brandeis University, Waltham from Feb. 4 through 16. Tickets: \$6-\$10. Tel.: 736-3400.

Forever Plaid, the story of a semi-professional harmony group, the Plaids, continues indefinitely Tue.-Fri. at 8, Sat. at 7:30 and 9, Sun. at 3 and 7:30, and Thu. at 2 at the Terrace Room of the Park Plaza Hotel, 64 Arlington Street, Boston. Tickets: \$22.50 and \$27.50. Telephone: 577-8384.

Ghosts, Henrik Ibsen's play about a widow trying to lay her past to rest, continues through Feb. 9 at the Lyric Stage, 140 Clarendon Street, Boston. Performances Wed.-Fri. at 8, Sat. at 5 & 8:30, and Sun. at 3. Tickets: \$14-\$18, depending on date and time. Tel.: 437-7172.

ImprovBoston, Boston's longest-running improvisational comedy troupe, continues its late-night performances indefinitely Thursdays at 8 at Play It Again Sam's, 1314 Commonwealth Avenue, Boston, Fridays at 10:45 and Sundays at 7:30 at the Lyric Stage, 140 Clarendon Street, Boston; Saturdays at 10:30 at the Back Alley Theater, 1253 Cambridge Street, Inman Square, Cambridge. Tickets: \$8 general, \$6 students. Telephone: 491-8166.

Lady Day at Emerson's Bar & Grill, a tribute to Billie Holiday, continues through Feb. 9 at the New Repertory Theatre, 54 Lincoln Street, Newton Highlands. Telephone: 332-1646.

The Little Foxes, Lillian Hellman's play about siblings who lie, cheat, and double-cross each other and everyone else in their struggle for power in a small Southern town, continues through Feb. 2 at the Huntington Theatre, 264 Huntington Avenue, Boston. Tickets: \$18-\$34. Telephone: 266-7900.

Misalliance by George Bernard Shaw continues through March 7 at the Loeb Drama Center, 64 Brattle Street, Cambridge. Performances are Tue.-Fri. 8 pm, Sat. 2 & 8 pm, Sun. 2 & 7 pm. Tickets: \$17-\$38. Telephone: 495-2668.

Nonsense, Dan Goggin's comedy about the Little Sisters of Hoboken who stage a talent show to raise money to bury four of their number, continues indefinitely at the Charles Playhouse, 74 Warrenton Street, Boston. Performances are Tuesday-Friday at 8 pm, Saturday at 6 pm & 9 pm, with matinees Thursdays at 2 pm and Sunday at 3 pm. Tickets: \$15.50 to \$26.50 general, half-price for seniors and students on Thursday matinee. Telephone: 426-6912.

Shear Madness, the long-running comic murder mystery, continues indefinitely at the Charles Playhouse, 74 Warrenton Street, Boston. Performances are Tuesday-Friday at 8:00, Saturday at 6:30 & 9:30, and Sunday at 3:00 & 7:30. Tickets: \$18 and \$23. Telephone: 451-0195.

Ongoing Exhibits

Crazy After Calculus: Humor at MIT, chronicling MIT's rich history of wit and wizardry, and Doc Edgerton: Stopping

Time, photographs and memorabilia documenting the invention and use of the strobe light, continues indefinitely at the MIT Museum, 265 Massachusetts Avenue, Cambridge. Museum hours are Tuesday-Friday 9-5 and Saturday-Sunday 1-5. Admission: \$2 requested donation, free to MIT community. Tel.: 253-4444.

Per Kirkeby: Paintings and Drawings, an exhibit of paintings and drawings by the leading Danish artist, and Luis Camnitzer: Retrospective Exhibition 1966-1990 continue through Feb. 9 at the List Visual Arts Center in the Wiesner Building. Gallery hours: weekdays 12-6, weekends 1-5. No admission charge. Telephone: 253-4680.

New England Character, an exhibit of photographs by Wilson Hu, will be displayed at the Wiesner Student Art Gallery in the Student Center from Feb. 1 through 22. Telephone: 253-3913.

No Apartheid, an exhibit of 60 drawn, crafted, and sculpted works by artist Valerie Maynard, continues through March 20 in the Compton Gallery, 77 Mass. Ave. Free admission.

OFF CAMPUS

Computer Art and Design: The 1991 SIGGRAPH Traveling Exhibition, an international juried show of new computer art and design works, continues through February 1 at the Computer Museum, 300 Congress Street, Boston. Museum hours: Tue.-Sun. 10-5. Tickets: \$6 adults, \$5 students and seniors, free to museum members. Telephone: 423-6758.

Homes and Heroes, a photography exhibit featuring more than 50 photographs by sixth-grade students under the instruction of photographer Roger Farrington, continues through Feb. 21 at The Wang Center. Hours: during Wang Center performances or by appointment. Telephone: 482-9393 ext. 213.

New Impressions, an exhibit of monotypes presented by the Monotype Guild of New England, continues through Feb. 21 at the Federal Reserve Bank of Boston, 600 Atlantic Avenue, near South Station. Gallery hours: Mon.-Fri. 10-4. No admission charge. Tel.: 973-3453.

Ancestral Vision, an exhibition of the works of six Afrocentric artists, including a broad selection of African masks from a private collection, continues through Feb. 28 at the Fuller Museum of Art, 455 Oak Street, Brockton. Gallery hours: Tue.-Sun. 12-5. Telephone: (508) 588-6000.

Miracles and Mysteries, ten European tapestry weavings focusing on Biblical themes, continues through March 1 at the Museum of Fine Arts, 465 Huntington Avenue, Boston. Tel.: 267-9300.

Beuys and Warhol: The Artist as Shaman and Star, an exhibition of works by two of the most controversial artists of the 1960s and '70s, continues through March 8 at the Museum of Fine Arts, 465 Huntington Avenue, Boston. Telephone: 267-9300.

Seen Through American Eyes, highlighting Wellesley College Museum's holdings of works on paper by American artists, continues through March 15 at the Corridor Gallery of Jewett Arts Center, Wellesley College. Gallery hours: Mon.,

Thu., Fri., & Sat. 10-5, Tue. & Wed. 10-9, Sun. 2-5. No admission charge. Telephone: 235-0320. x2051 weekdays, x2050 weekends.

Virginia's Children, portraits and artifacts describing the life of Virginia planters' children, continues through March 15 at the Museum of Our National Heritage, 33 Marrett Road, Lexington. Gallery hours: Mon.-Sat. 10-5, Sun. 12-5. Telephone: 861-6559 or 861-0729.

The Art of Drawing, contrasting 75 American and European drawings by artists such as Rembrandt, Picasso, and Goya, continues through March 22 at the Museum of Fine Arts, 465 Huntington Avenue, Boston. Telephone: 267-9300.

Currents: The Absent Body, exhibiting new work by emerging artists and established artists, continues through March 22 at the Institute of Contemporary Art, 955 Boylston Street, Boston. Hours: Wed. and Sun. 11-5, Thurs.-Sat. 11-8, closed Mon. and Tues. Admission: \$4, \$1 MIT students. Telephone: 266-5152.

Fra Bartolommeo: Master Draughtsman of the High Renaissance, selections of drawings and figure studies on loan from the Museum Boymans-van Beuningen in Rotterdam, continues through April 12 at the Museum of Fine Arts, 465 Huntington Avenue, Boston. Tel.: 267-9300.

Photographs from the Persian Gulf, chronicling the work of news photographers within — and beyond — the limits of the Department of Defense press pool, continues through April 26 at the Museum of Our National Heritage, 33 Marrett Road, Lexington. Gallery hours: Mon.-Sat. 10-5, Sun. 12-5. Telephone: 861-6559 or 861-0729.

With Weapons and Wit: Propaganda and Psychological Warfare During World War II, an exhibit marking the 50th anniversary of US participation in World War II, continues through May 17 at the Museum of Our National Heritage, 33 Marrett Road, Lexington. Gallery hours: Mon.-Sat. 10-5, Sun. 12-5. No admission charge. Tel.: 861-6559 or 861-0729.

Romantic and Fantastic Landscapes, 25 eighteenth- and nineteenth-century landscape paintings depicting the idyllic scenes of nature, continues through July 5 at the Museum of Fine Arts, 465 Huntington Avenue, Boston. Tel.: 267-9300.

Radio Days: Classic Radios presents more than 60 radios from the 1930s to the 1960s from Feb. 2 through July 12 at the Museum of Our National Heritage, 33 Marrett Road, Lexington. Free. Hours: Mon.-Sat. 10-5, Sun. 12-5. Telephone: 861-6559/0729.

Upcoming Events

Ladysmith Black Mambazo at the Somerville Theater on February 6. Le Bourgeois Gentilhomme by the MIT Dramashop opens on February 6. Joe Ely at Nightstage on February 7. ROSE opens Raisin in the Sun on February 7. Robyn Hitchcock and the Egyptians at Avalon on February 8. Take 6 and Bobby McFerrin at the Orpheum on February 12.

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- Completed applications must be submitted by 5 PM, Friday, February 7, 1992.
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The Coop President's Office,
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A New Look, But Still The Same Old Tech

By Josh Hartmann
CHAIRMAN

On your way through Lobby 7 today, you may not have recognized *The Tech*. Instead of the distinctive dark nameplate and headlines that you have grown to know and love, you see a paper that may appear as a stranger — with a completely different style.

This issue is the first to incorporate *The Tech's* new design. The redesign is the product of literally months of work by many members of the newspaper's staff. The redesign was aimed to make the newspaper appear friendlier without losing touch with its 111-year tradition. Work on the redesign began last summer and continued right up through the end of the Independent Activities Period.

One of the more striking changes you will notice is in the nameplate itself: It is a variant of a design that first made its way onto *The Tech's* front page on June 10, 1916. Behind the letters is a drawing of Killian Court and MIT's main buildings, which at the time had barely been completed. In fact, one of the headlines in that debut issue read, "NEW BUILDINGS READY FOR FORMAL DEDICATION."

At the centerpiece of this drawing is a statue of Minerva, the Roman goddess of wisdom, which was planned for the center of Killian Court. Also on the drawing board was a reflecting pool — which is the reason the area is still depressed.

New typography featured

Other changes include a serif headline type, Century Bold Condensed, which replaces the Univers Extra Bold that has held the newspaper's headlines since 1976. The Century Condensed family carries over to headlines in all sections except arts, which uses a version of Franklin Gothic — a heavy, sans serif face common in newspapers. Body text throughout the paper is Monotype Times New Roman, designed originally for *The Times* of London.

Inside the cover, there are obvious changes not only in the typography, but in the fundamental organization of the newspaper. The News Roundup section, which featured news briefs from The Associated Press' radio wire, has been replaced by a two-page section usually featuring four full stories from the same day's editions of *The Washington Post*, *The Los Angeles Times*, *The Baltimore Sun*, *Newsday*, and other major national newspapers. Condensed versions of several other articles will also appear with the "World & Nation" section on pages two and three. Other, more subtle changes lurk in the Opinion layout.

New composition system

New technology has driven *The Tech* to past redesigns, and this one is no exception. With this issue, *The Tech* introduces its new Apple Macintosh publishing system, and retires its aging Compugraphic 8400 imagesetter. The newspaper will continue to maintain its Atex newspaper editing system for the foreseeable future while taking advantage of the full-page layout capabilities of Quark XPress for the Macintosh.

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