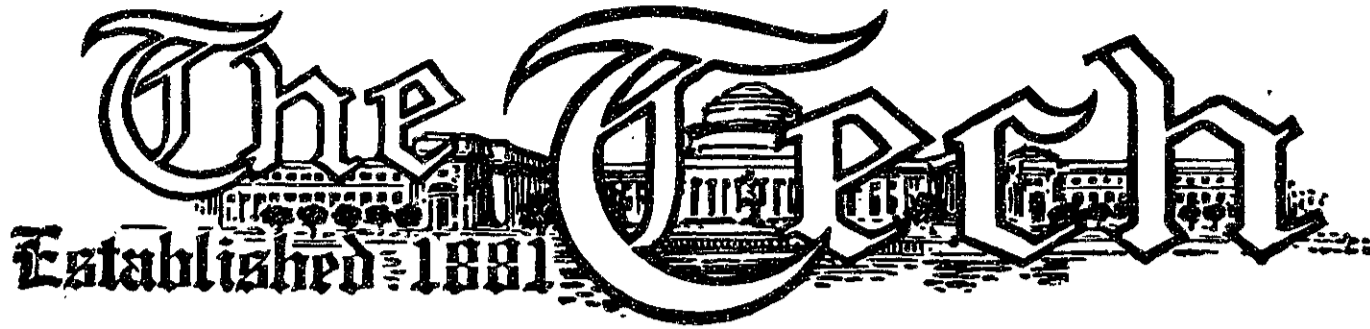


MIT's
Oldest and Largest
Newspaper



The Weather
Today: Partly cloudy, 58°F (14°C)
Tonight: Cloudy, damp, 42°F (6°C)
Tomorrow: Cloudy, cool, 50°F (10°C)
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Friday, April 9, 1993

Fiber Optic Network Development Begins

By Michael A. Saginaw
ASSOCIATE NEWS EDITOR

Lincoln Laboratories, Digital Equipment Corporation, and AT&T Bell Laboratories are pooling their expertise to complete a fiber optic test-bed for research in high speed and high volume network communication.

Fiber optic cables have the capacity to carry vast quantities of information at ultra-high speeds.

"There's the vision of the time when people will transmit images and multimedia things by computers and [fiber optic] networks," said Robert G. Gallager ScD '57, a professor of electrical engineering and computer science here who is researching the architecture of the network.

Although they are now used extensively in telephone lines, fiber optics are not used to their full capacity because the light signals which propagate through them are created electronically at one end with lasers and detected electronically at the other end. Thus the electronics create a bottleneck and obscure the full capabilities of fiber optics.

In the test-bed, however, all information traveling between the nodes, places that send and receive fiber optic data, is in the form of light. In this network, a node is typically an entire center like Lincoln Laboratories. When finished, the test-bed will only have 10 to 15 nodes, but the knowledge gained from managing this network is crucial for the national information highway. Therefore, a key research issue in the test-bed is its architecture.

Expandable architecture needed

"You want to make sure you can enlarge it to arbitrarily large sizes, nationally and internationally," said Gallager. "If you build a lovely test-bed and it only works for 10 or 20 nodes, it's not going to go very far."

As millions of light-encoded messages travel over the test-bed simultaneously, one message is distinguished from the others by its frequency, according to Professor of Electrical Engineering and Computer Science Robert S. Kennedy ScD '59, who is heavily involved in the project. This is known as frequency division.

Another common technique for distinguishing messages is time division, where a message from the sender is transmitted as a series of incredibly short pulses. These pulses are sent periodically, and the receiver only looks for pulses at the appropriate time. Time division is not currently used in the test-bed because the technology for optical time division is not as advanced as that for frequency division, according to Kennedy.

The test-bed will also test the effectiveness of consortia in bringing technology from the laboratory to the marketplace.

All three parties in the consortium have overlapping knowledge and experience in optical and communications technology, yet each party has its own specialty, according to Kennedy. Bell Laboratories brings to the project its competence in optical devices technology. DEC is very experienced with computer networks. Lincoln

Fiber, Page 7

Bioengineering Program Starts

Program to Encourage Collaboration with Other Area Groups

By Kevin S. Subramanya
STAFF REPORTER

Dean of Engineering Joel Moses PhD '67 has announced the formation of the Program in Biomedical Engineering which will coordinate research activities in biomedical engineering between MIT, Harvard, and various Boston hospitals.

The program was devised by MIT faculty from the School of Engineering and the Harvard-MIT Division of Health Sciences and Technology and will be based at MIT.

"Most departments in the School of Engineering are involved in biomedical engineering research on a variety of levels," Moses said in *Tech Talk* yesterday. "There is a need to coordinate these efforts for maximum impact on this rapidly growing field."

"Given the active role of MIT in the Boston biomedical community and the extensive research resources of this environment, MIT is in a unique position to provide leadership on a national level at a time when the health-care needs of our

society are under scrutiny," Moses told *Tech Talk*.

Professor of Mechanical Engineering Roger D. Kamm '77 and HST Professor Ernest G. Cravalho will be the first co-directors of the new program.

"The main purpose of this new program is to help facilitate collaboration among researchers from various fields of biomedical engineering," Kamm said.

"To complement HST involvement, this new program will encourage further collaboration among many teaching hospitals such as the [Massachusetts General Hospital], Brigham and Women's Hospital, Children's Hospital, and the VA Medical Center," Kamm continued. The program is designed to facilitate collaboration between engineers and biologists and doctors, Tamm said.

Faculty and students who are interested in the intersection of medicine and engineering will get an opportunity to strengthen their interests, Kamm said, and research opportunities in biomedical engi-

neering at MIT will be enhanced.

Areas of investigation that could gain from this program include: biomedical imaging, application of computational methods to medicine, tissue engineering, and the use of expert systems in patient care and monitoring, Kamm said.

Cravalho said that not only research offerings but course offerings in biomedical engineering is expected to increase as a result of the program.

"I think it's a great idea," said Prashant Sinha '95, an electrical engineering and computer science student. "Hopefully this new program will also involve undergraduates who are interested in this aspect of engineering especially since many students in electrical engineering do the biology option," he said.

Members of the steering committee that will assist Kamm and Cravalho include Professor of Mechanical Engineering Neville J. Hogan PhD '77, HST Professor

Bioengineering, Page 7

Chinese Dissident Describes Change

By Vipul Bhushan
NIGHT EDITOR

Chinese dissident leader Shen Tong spoke about the evolving political revolution in his homeland at a Tuesday evening Lecture Series Committee talk in 26-100. Currently a second year graduate student in political sociology at Boston University, Tong chairs the board of the Democracy in China Fund, which all his honoraria go to.

Tong was one of the first pro-democracy activists to escape China after the 1989 Tiananmen Square massacre. After fleeing China four years ago, he attended Brandeis University. In September 1992 Tong made a much-publicized return to China, where he was

arrested hours before he was to give a news conference. He related the events leading up to the Tiananmen Square massacre and offered analysis of the massacre and its aftermath.

After Mao Tse-tung's death in the 1970s and Deng Xiaoping's subsequent rise to power, China changed dramatically, Tong said. Deng instituted internal reforms and opened China to the outside world, he said.

In the 1980s, China experienced impressive economic growth. Living standards improved, and the country looked "glamorous" to the outside world, Tong said. This economic boom was "the main force" behind major societal change, he

said, and previously banned literature became available.

But Tong added that "without fundamental change on the political side, there was no way economic development and gradual societal change could continue."

With loosened restrictions, pro-democracy movements emerged. In early 1989, there was no government response to weeks of pro-democracy demonstrations and hunger strikes. Soviet leader Mikhail Gorbachev visited China in May 1989, and it was by this coincidence that the world media's attention first became focused on demonstrations in Beijing.

Tong, Page 7

Athena Considers New Printers

By Jeremy Hylton
EDITOR IN CHIEF

Since the beginning of spring break, Athena users have been evaluating a pair of high-speed laser printers that will replace the printers used in all public Athena clusters this summer.

Users were given free access to an Hewlett Packard Laser Jet IVsi and a DEC LNS17 to test them and offer feedback to an Information Systems team that has supervised the printer replacement project.

Project leader Darrin E. Robinson expects to make a recommendation to IS in about two weeks to replace 29 printers in public clusters. "We are trying to deploy printers by June 1. We didn't want to be moving printers while people are printing final papers," Robinson said.

Students were invited to send evaluations of the printer to an Athena mailing list. The reaction to the Hewlett Packard printer was overwhelmingly positive. "On the whole, I was wondrously impressed

with it and would like to see it be the next Athena printer," wrote Max E. Metral '93.

Reaction to the DEC printer was less enthusiastic. Marc W. Bockrath '93 wrote, "It doesn't seem to be much of an improvement over the existing printers."

The Hewlett Packard printer ended its test run earlier this week, but the DEC printer will be available through today. The DEC printer uses the name dec-eval.

The primary difference users will see between the current printers, DEC LN03s, and either of the new printers is speed. Both of the new printers operate at about 17 pages per minutes, while the LN03 prints about six pages per minute.

The new printers will also support a mechanism to print on both sides of a sheet of paper.

The advantage the HP printer has is its higher resolution. The LNS17 prints 300 dots per inch, the same resolution as the current printers. The HP offers a factor of four increase, to 600 dpi. The HP printer

also supports Adobe's Postscript Level 2 page description language, while the DEC printers support only level 1.

The age of the current printers was one of the main issues driving the replacement. The LN03s, purchased over five years ago, were expected to survive printing 200,000 pages, but most of them have printed 400,000, Robinson said.

It is "no wonder that it's time to replace the [LN03s]," Robinson wrote. "They've exceeded their usable life and were a great investment because of this fact."

The current printers are also used more frequently than they were designed to be used. Athena printers produce about 22,000 pages a month, but the LN03s were designed to print 10,000 pages per month. The IS team headed by Robinson has been working since last October to find a new printer. The group actually tested eight printers before winnowing the field to the DEC and HP models.



Chinese pro-democracy leader Shen Tong speaks in 26-100.

WORLD & NATION

Japan Ready to Commit \$2 Billion Aid to Russia

LOS ANGELES TIMES

WASHINGTON

Japan now seems prepared to commit as much as \$2 billion in immediate aid to Russia despite its continued insistence that Russia return four islands seized after World War II as a precondition for substantial financial support, officials here and in Tokyo said Thursday.

Japanese officials have assured Western leaders that Japan would contribute to an aid package to be announced next week at a meeting of officials of the seven large industrial nations. At the same time, however, they are refusing to give ground on the islands' issue.

While the \$2 billion figure is far less than Japan can afford to give — it ran a \$107 billion trade surplus with the rest of the world last year — its agreement to make even that level of contribution represents significant movement. Previous aid discussions have faltered over the islands' dispute.

Japanese officials have in the past floated proposals for as much as \$26 billion in aid for Russian reconstruction, on the condition that the Russian-occupied islands, the southernmost of the Kuriles just north of Japan, be returned to Japanese sovereignty. The Japanese refer to the islands as their Northern Territories.

New Premier Warns French Of Sacrifices to End Crisis

THE WASHINGTON POST

PARIS

France's new Prime Minister Edouard Balladur warned in his maiden policy speech Thursday that his conservative government will demand stringent sacrifices to pull the country out of what he described as its worst social and economic crisis since the war.

Speaking before the National Assembly, where the conservative alliance captured 80 percent of the 577 seats in national elections last month, Balladur promised a sharp break with the previous Socialist government that had lost credibility with voters because of rising joblessness, corruption and street crime.

Balladur affirmed that the conservatives would move quickly to revitalize the economy by selling state enterprises and lowering taxes on employers so they can hire more workers. He also promised to crack down on illegal immigrants through expulsions and tighter border controls as part of a tough law-and-order policy. But he urged law-enforcement authorities to exercise "greater self-discipline" after the shooting of a young immigrant in detention and other charges of police brutality this week that led to the suspension of four policemen.

2 U.N. Electoral Workers Assassinated in Cambodia

THE WASHINGTON POST

PHNOM PENH, CAMBODIA

Two United Nations' electoral workers, including a Japanese volunteer, were shot to death Thursday while driving in a stronghold of the Khmer Rouge guerrillas. Their deaths brought to seven the number of U.N. peacekeepers killed over the past two weeks.

The body of Atsuhito Nakata, 25, was found under his bullet-riddled car, which had been stopped by armed men, U.N. spokesman Eric Falt said. Nakata had managed to radio for help and to maintain radio contact for more than 30 minutes after he was stopped, Falt said.

Nakata's Cambodian interpreter, Lay Sokphiep, was critically wounded when found by another electoral worker a few minutes after radio contact was lost, Falt said. The interpreter was evacuated to Phnom Penh but later died of his injuries.

WEATHER

Slow Change

By Marek Zebrowski
STAFF METEOROLOGIST

A typical slow-moving spring weather pattern favored us with a string of nice days, cool sunshine and stiff sea breezes notwithstanding. Come Friday, a transition will begin — as a huge area of disturbed weather located in the Tennessee and lower Ohio valleys will gradually move towards the mid-Atlantic States and New England. The impressive dynamics of this system will tap into the inflow of moisture from the Gulf of Mexico and, subsequently, from the Atlantic by early Saturday.

A stage therefore will be set for a cloudy, rainy, and generally unpleasent weekend ahead. With persistent southeasterly winds and astronomically high tides, localized coastal flooding is likely; inland communities, especially in the hilly terrain might receive a very substantial rainfall for about 24 hours beginning late Saturday, and rivers, already swollen by the melting snows of last winter are expected to rise above the flood stage again.

Alas, no significant clearing will take place until the middle of next week, when a cool high pressure from central Canada will nudge the stubborn and slow-moving rainmakers out of our area.

Friday: Clear to partly cloudy, with some patchy clouds possible in coastal areas. Highs around 58°F (14°C), cooler at the shore. Winds east to southeast at 10-15 mph (16-24 kph).

Friday night: Becoming cloudy and damp. Low around 42°F (6°C).

Saturday: Cloudy and quite cool with raw, onshore winds. Highs around 50°F (10°C). Rain will begin by late afternoon and continue through the night.

Sunday outlook: Rainy and raw with strong easterly winds. High temperatures only in the mid 40s to low 20s (8-11°C).

U.N. Court Orders Yugoslavia to Prevent Genocide in Bosnia

By Tamara Jones

LOS ANGELES TIMES

THE HAGUE, NETHERLANDS

The World Court ordered Yugoslavia Thursday to do everything in its power to "prevent ... the crime of genocide" in Bosnia-Herzegovina, but ignored that beleaguered Muslim state's appeal for international military aid.

The 14-member judicial branch of the United Nations stopped short of actually accusing Serbia and its ally Montenegro of mass extermination or war crimes in Bosnia, which brought the complaint before the court.

"The crime of genocide shocks the conscience of mankind," the court said without specifically naming Serbia and Montenegro, the two states that formed themselves into the new Yugoslavia after four other republics declared themselves independent nations.

Although disappointed that the court did not address a request to exempt Bosnia from a U.N. arms embargo against all former Yugoslav states, the Bosnians declared the ruling a moral victory.

"This is a solid verdict against rump Yugoslavia," said Francis Boyle, the American law professor

representing Bosnia's Muslim government.

However, a Yugoslav diplomat insisted that the non-binding decision was "absolutely not" a defeat.

"It did not accuse anybody of anything," noted Ljubinko Zivkovic, charge d'affaires of the Yugoslav Embassy in the Hague. "It's very hard to say we are happy or unhappy."

Zivkovic added "Yugoslavia will do its utmost" to comply with the court's decision.

Serbia and Montenegro argue that the fighting in Bosnia-Herzegovina is strictly a civil war and that Yugoslavia is not involved.

The World Court appeared to call that denial into question. In addition to unanimously calling on Yugoslavia "to take all measures within its power to prevent commission of the crime of genocide," it held the republic responsible for the actions of Bosnian Serbs.

It said Yugoslavia "should in particular ensure that any military, paramilitary or irregular armed units which may be directed or supported by it, as well as any organizations and persons which may be subject to its control, direction or influence, do not commit any acts of geno-

cide...."

The court also called on Yugoslavia to prevent "direct and public incitement to commit genocide" and "complicity in genocide, whether directed against the Muslim population of Bosnia and Herzegovina or against any other national, ethnical (sic), racial or religious group."

The justice from Russia, Nicolai Tarassov, cast the sole dissenting vote, signaling Moscow's continued support of its traditional Serbian allies. Tarassov said parts of the court's order "are open to the interpretation that the court believes that the government of the Federal Republic of Yugoslavia is indeed involved in such genocidal acts, or at least that it may very well be so involved."

In voting against that provision of the ruling, Tarassov also complained of the "practically unlimited, ill-defined and vague requirements" set by the court for Yugoslavia in holding it responsible for ensuring against genocide in Bosnia.

The World Court has no enforcement or punitive powers, but the U.N. Security Council can decide to enforce its rulings.

Clinton Visits Pentagon in Effort To Boost Standing with Military

By John Lancaster
and Ann Devroy

THE WASHINGTON POST

WASHINGTON

He has watched aircrews at work on an aircraft carrier at sea, spoken to midshipmen at the Naval Academy, and is slated to award the "commander-in-chief's trophy" to the winner of the three-way football rivalry among the Military Academy, the Naval Academy, and the Air Force Academy.

Thursday, he went straight to the top.

In the latest effort to improve his standing with the military, President Clinton paid his first presidential visit to the Pentagon, trading thoughts with the military service chiefs about Bosnia-Herzegovina, Somalia and other foreign-policy topics and chatting with senior non-commissioned officers from each military branch.

The highly visible visit, which ran half an hour over its scheduled one-hour length, was the latest installment of what White House and Defense Department officials freely acknowledge is a calculated strategy to patch up Clinton's relationship with a vital constituency that still views him with suspicion.

A White House official said Clinton would take "a number of actions consistent with his role as commander-in-chief," both to repair his image of indifference to military concerns and to let the public know he is firmly in command. A senior Pentagon official, who asked not to be identified, said the strategy would include a variety of ceremonial events such as awarding the football trophy and giving a commencement speech to one of the military service academies.

"The Clinton visits are essentially because there is a constituency that's important," the Pentagon official said. "It's important that there be some coming together with that constituency because he's the commander-in-chief and he needs to be close to them because he may need to put them into harm's way."

To a large degree, Clinton is relying for guidance on Defense Secretary Les Aspin, who conceived

the visits to the Pentagon and the aircraft carrier and has provided the White House with a memo offering tips for getting along with the nation's 1.8 million men and women in military uniform, the official said.

"We were very much involved with helping to work the strategy," the senior Pentagon official said. "We sent a list of things over and have been updating it." The official called the nation's military an "eminently winnable" constituency for the president, and said Aspin is committed to helping "make sure that happens."

A White House official said Clinton would take "a number of actions consistent with his role as commander-in-chief."

But the challenge is formidable for a president who soon after taking office moved to lift the ban on homosexuals in uniform, sharply cut defense spending and reduced military pay as part of a government-wide efficiency move. Moreover, many military people have not forgiven Clinton for his efforts in the 1960s to avoid military service in Vietnam or his description, in a letter at the time, of his generation's "loathing" for all things military.

Clinton spent much of his time at the Pentagon Thursday morning in the "Tank," the soundproofed conference room where the Joint Chiefs of Staff conduct their most sensitive meetings. Gen. Colin L. Powell, chairman of the Joint Chiefs, presided over a kind of seminar on the division of responsibilities among various war-fighting commands, U.S. military commitments to NATO and several "post-Cold War challenges," according to White House spokesman George Stephanopoulos.

Each service chief gave Clinton a status report on his branch of the armed forces, including how they had handled the personnel cuts of the last five years and were prepar-

ing for upcoming reductions. Stephanopoulos said there was a "very full discussion" of how the services were adjusting to the draw-downs, suggesting that issue was the center of the meeting.

Other topics included North Korea's nuclear-weapons program, the situation in Haiti, the status of U.S. troops in Somalia and pending enforcement of the "no-fly zone" over Bosnia. At one point, Clinton watched a film showing how U.S. aircrews, dropping food to besieged Muslims in eastern Bosnia, have refined their airdrop techniques to avoid injury to people on the ground.

The senior Pentagon official, who also was present at the meeting, described the president as engaged with the uniformed leaders. He said the president asked a number of questions, including one about the prospect of using military force to curb Serb aggression in Bosnia and another on the Air Force's troubled C-17 transport aircraft.

Clinton and the chiefs also discussed general issues such as the standards for U.S. intervention abroad and the strains on U.S. forces caused by peacekeeping missions, officials said. "The president had a very good visit," Stephanopoulos said.

The visit comes on the heels of another visible sign of Clinton's efforts to dispel the notion he is at odds with the military. Last weekend, during Clinton's summit with Russian President Boris Yeltsin, Army Lt. Gen. Barry R. McCaffrey accompanied Clinton as a senior military aide, and the president took him jogging in full view of cameras and press.

The general's snub in January at the White House by a young woman — still unidentified but presumed to be a White House aide — became something of a cause celebre among military officials and others, who repeated it as evidence of the Clinton team's aversion to the military. White House and Pentagon officials have since said the incident was overblown.

Clinton Sends Congress Detailed \$1.5 Trillion Budget

By Ann Devroy
and Steven Mufson
THE WASHINGTON POST

WASHINGTON

President Clinton Thursday sent Congress the detailed version of a \$1.52 trillion budget that is already being altered by the politics of compromise.

As promised in Clinton's earlier budget outline, the president's 1,478-page plan would slash military spending while raising taxes on energy and on the income of top earners. In those priorities lie its broadest difference with the last 12 budgets of Republican rule. Overall spending during the year starting Oct. 1 would be only about 3 percent more than the current year, in line with inflation.

Clinton would use that money for new spending programs and to reduce the size of projected budget deficits. But even with the deficit-reduction efforts, the national debt would grow by \$1.45 trillion over the next five years under the Clinton plan.

Vice President Al Gore said the plan "hacks away at the deficit" and provides "the kind of change Americans want." Office of Management and Budget Director Leon E. Panetta called it a "bold plan aimed at reducing the deficit, changing priorities and investing in the future of our people and our country." But critics said the Clinton budget was noteworthy for what was missing:

— \$66.7 billion must be cut over five years to meet the spending plans recently adopted by Congress and endorsed by the administration.

— Also missing is the cost of the administration's health-care-reform plan, which will not be completed until May, and which weapon systems the Pentagon must ax.

"We [Republicans] were taunted

by the president to come out with our own specifics," said Rep. Lamar Smith, R-Texas. "He ought to practice what he preaches."

The \$66.7 billion gap reflects tighter limits set by Congress in the budget resolutions as well as re-estimates of administration policies and deals Clinton cut over the past seven weeks with members of Congress and his Cabinet. Implicit in those deals, in which he has added spending or reduced proposed fees, was that the administration and Congress would have to come up with offsetting spending cuts.

The administration sidestepped that issue Thursday.

Panetta acknowledged that "we're going to have to set some priorities on our investments" because of the caps on domestic spending subject to annual appropriation. He said the administration would negotiate the additional spending cuts with congressional appropriations committees.

Though the budget is usually the opening gambit in months of bargaining over the federal government's tax and spending program, the first Clinton budget is unique. Congress has already approved the limits of what it will spend, and the administration is deep in negotiations over elements of the package.

For example, the budget document Thursday included revenue from increased mining and grazing fees charged to those using federal lands, even though Clinton told Western senators he would not push that plan in the budget.

The next step is for congressional appropriations committees to come up with their own versions of spending plans and for key committees to draw up tax plans. With Democrats controlling the White House and Congress, the Clinton budget is expected to carry far more

weight in that process than in the years of divided government.

But Senate Minority Leader Robert J. Dole, R-Kan., flexing his muscles after his success in stalling the president's economic-stimulus package, said Republicans would be "shooting real bullets" in their negotiations with Democrats as the pieces of the budget are put together.

The White House, in turn, used the budget presentation to step up its attacks on Republicans for holding up what Panetta and Laura D'Andrea Tyson, chairman of the Council of Economic Advisers, called a key element of the plan, the quick spending meant to stimulate the economy and provide jobs.

Gore accused Republicans of working "for paralysis instead of progress" in thwarting the \$16.3 billion stimulus package. He said they would "prefer to do nothing rather than creating jobs for Americans" and pointed out Congress was on spring break while many Americans lacked the jobs and benefits they had.

Gore presented the budget in the absence of Clinton, who was in Little Rock, Ark., with his family preparing for the funeral of Hillary Rodham Clinton's father, Hugh Rodham.

Republicans attacked the Democrat's first budget as relying too heavily on new taxes, rather than real spending cuts, to pare the deficit, and they repeatedly defined the stimulus package as a wasteful spending and pork, rather than real job creation.

Dole agreed the Clinton budget sets new priorities for government, but said Clinton's budget offered "biggest taxes, bigger spending, and bigger government. There's nothing about 'change' in this whopping tax-and-spend budget."

And Rep. Smith, the budget committee member designated by the House Republicans as their spokesman, pinpointed a key GOP complaint: About 80 percent of the \$151 billion in Clinton spending cuts comes in the last two years of the five-year plan. "If anyone believes that, they believe they'll see the Easter Bunny on Sunday." Budget analysts agreed that the history of savings targeted for the "out years" is that they do not materialize.

While its overall spending is about what former President Bush would have proposed, the Clinton budget signature is in two major and several minor areas. Clinton, as promised, would reduce defense spending by \$12 billion more than Bush had proposed. He would also increase the tax rate on wealthier taxpayers and on energy, both of which Bush opposed.

In addition, the Clinton team billed their budget as far more oriented to "long-term investment," pointing to increases in funding for road and bridge work, job training, and other programs aimed at creating the tools of economic growth and the work force for it.

Republican budget experts countered that there were similar concepts in the budgets submitted by President Reagan and Bush.

The Clinton budget document also produces social-policy anathema to the Republicans: It removes restrictions from the GOP era aimed at keeping the federal government from spending money on abortion or to counsel on abortion.

Though Thursday's budget remained largely consistent with the February outline, there were several changes made by Treasury and OMB:

— The Treasury said it would earmark the increased taxes on

Social Security benefits for the Medicare trust fund. The move makes no practical difference to the federal government's finances, but reflects an attempt to sell the increased taxes to senior citizens.

— The administration added spending for the departments of Housing and Urban Development and Veterans Affairs, as well as for heating assistance for the poor, mass transit and for the Tennessee Valley Authority. New spending totaled \$1.2 billion in fiscal 1994 beyond the February figures.

— Re-estimates of earlier policy proposals added \$26 billion to projected deficits over five years. That came largely by reducing estimates of the revenue from increased taxation on Social Security benefits and from higher estimates of Medicare costs.

— The administration sliced an additional \$1.7 billion from the military budget over five years. But Panetta said that "it's going to be tough to go back to defense" for more savings.

While many of the departments got little extra to spend in the Clinton era — domestic spending is essentially frozen in this budget — there are shifts in priorities.

The Department of Housing and Urban Development, for example, unveiled several initiatives underscoring what Secretary Henry Cisneros called "a commitment to community," stressing programs that "create a sense of economic movement" instead of "maintaining the status quo."

The items included \$184 million in new money for homelessness programs, an additional \$48 million to provide jobs, training and education for disadvantaged young people and an extra \$90 million for an expanded community policing and security program for inner cities.

Expanding Health Care Costs May Wipe Out Debt Reduction

By David Lauter
LOS ANGELES TIMES

WASHINGTON

Despite all its proposed tax increases and large cuts in defense spending, the budget proposed by President Clinton would produce only moderate improvements in the longstanding "structural" federal deficit — the persistent gap between federal spending and revenues.

For a culprit, blame the ever-escalating cost of federal health care programs.

Clinton counts on improvements in the economy to bring down the overall deficit by some \$50 billion over the next five years. In addition, his large defense cuts, an assortment of smaller domestic spending cuts and a healthy dose of new taxes are projected to reduce the deficit by another \$450 billion. With all that, the budget for fiscal year 1997 "will arrive at about a deficit of \$205 billion ... instead of what would be very close to about \$350 billion" without Clinton's proposed changes, budget director Leon Panetta said Thursday.

But Clinton's budget planners project the deficit to begin rising again in a few years as health care costs continue to soar. And unless those costs are brought under control, they warn, all of the administration's planned deficit reductions will be wiped out by early in the next decade.

This year, Medicare, Medicaid, and other federal health programs will cost some \$244 billion, soaking up roughly 16 cents of every federal dollar. But those sums will seem moderate by 1998, when health costs of \$398 billion are projected to take 22 cents per dollar, surpassing both Social Security and national defense to become the government's largest single account.

In the past, devout budget cutters

have often looked to defense or Social Security as the causes of red ink and the best potential sources of a cure. But defense spending already has come down sharply. As a percentage of the overall economy, the Pentagon budget is now at its smallest point since World War II. Clinton proposes to shrink it further, cutting it from 18 percent of this year's budget to 14 percent in 1998. Military leaders, and Clinton as well, have said that cutting any deeper than that would be unwise.

As for Social Security, while the program remains huge, it no longer is growing as a share of the federal budget and is not expected to grow substantially until the "baby boom" generation reaches retirement age in the next century.

Health care costs, by contrast, are growing rapidly. Several factors have driven the growth. Spending on Medicaid, the joint state-federal program that pays for medical care for the poor, has increased sharply because the lingering recession has created more poor people and because Congress has expanded eligibility for the program — bringing in more pregnant women, for example.

Medicare, the federal program of health insurance for the aged, has grown along with the number of elderly Americans.

But the costs of both programs also have grown because of the overall high rate of inflation in the entire health care field. The impact of those soaring costs on the federal budget — paralleled by the burden similar to health cost increases put on the private sector — provide much of the impetus behind Clinton's drive to reform the nation's health care system.

Clinton's budget would make some cuts in Medicare costs by squeezing payments to medical

providers. But administration planners concede those cuts are a mere stopgap. Without some way of bringing health care costs under control, they say, the deficit will begin to rise again in 1998, wiping out Clinton's deficit reductions in short order.

For now, Clinton's budget says nothing about how the health care system will be reformed, how much the reform will cost or what taxes will be raised to finance those changes. Those announcements will not come until next month. But the shadow of health care inflation looms over every other portion of Clinton's budget plan.

If current trends were allowed to continue, health care costs would "triple and, as we get into the next century, almost quadruple," budget director Panetta said. By contrast, administration planners believe that if they can manage to get health costs under control, they can keep the deficit on a slow, steady downward path until it reaches about \$70 billion 10 years from now.

Accounts of the federal budget generally focus on the overall size of the deficit — now running at about \$310 billion. But most economists argue that the overall deficit number can be misleading. A sluggish economy drives the deficit up, while a thriving economy brings the deficit down. The deficit that remains once the impact of economic conditions is factored out — the structural deficit, which is now about \$250 billion — provides the best picture of the true balance between federal spending and revenues.

On that score, Clinton's plan makes limited progress. Clinton's plan projects that the structural deficit would fall to \$201 billion in 1996 before starting to move back up again as health costs grow.

Administration Proposes Cuts in NIH Research

By Boyce Rensberger
THE WASHINGTON POST

WASHINGTON

The Clinton administration proposed Thursday to cut the budgets of nine of the 19 research institutes of the National Institutes of Health and to hold four more to increases of around 1 percent or less.

It is the first time in memory, several leaders of the biomedical research community said, that a president has proposed cutting the budgets of any NIH institute, which together have long been among the most highly valued parts of the federal establishment.

Among the institutes being asked to scale back their efforts are those working on prevention and treatment of heart disease, stroke, diabetes, alcoholism, mental illness and diseases of the aged. For example, the National Heart, Lung and Blood Institute, which is charged with fighting the leading cause of death in the United States — heart disease — would see its budget cut 1.3 percent.

Although all institutes are being asked to make cuts in existing programs, some would get budget increases because they are to receive funds earmarked for new or enlarged "targeted" research efforts on AIDS, breast cancer, and minority health. As a result, NIH as a whole would get a 3.2 percent increase.

Hurt most at NIH, biomedical researchers said, would be basic science, research that is not aimed at immediate practical payoff but which opens the new realms of knowledge from which future advances come.

The administration's strategy at the NIH — favoring applied science over basic science — is consistent with its proposals for comparatively large budget increases at the National Science Foundation and at NASA

At the NIH, the largest of the increases would go to institutes working on cancer (8.1 percent) and infectious diseases (8.8 percent), as well as the Human Genome Project (26.6 percent). The 3.2 percent increase for NIH as a whole, biomedical researchers said, works out to a net cutback because the inflation rate for biomedical research — higher than that for the overall economy — is expected to be about 4.1 percent next year.

The budget proposal, if approved by the Congress, would give the NIH an increase of \$333 million, bringing the total budget authority for fiscal 1994 to \$10.67 billion.

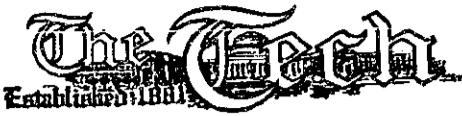
"This could be the first year ever when NIH did not at least break even," said Jerald Roschwalb of the National Association of State Universities and Land-Grant Colleges. "It's stupid. The administration's been talking about investing in American technology and this is the best investment money you can get. The breakthroughs in basic biomedical science ultimately save you money."

Advocates for the biomedical-research community also note that it was basic science that gave rise to the biotechnology industry, one of the fastest growing high-tech fields in the world. Yet the NIH arm devoted most exclusively to basic science, the Institute of General Medical Sciences, is slated for an increase of 0.1 percent.

At the National Science Foundation, by contrast, officials and grantees are generally pleased with Clinton's budget. In announcing NSF's \$3.18 billion budget proposal two weeks ago, outgoing director Walter Massey said the increase would "give priority to those programs that invest in the nation's long-term economic growth and social progress."

OPINION

Letters To The Editor



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Tech Reports Valueless Celebrity Story

In looking through the World and Nation section of Tuesday's *Tech*, we were surprised to discover that not only is Sharon Stone a homewrecker ["Sharon Stone Is Homewrecker, Fiance's Estranged Wife Says," April 6], but that this is an issue of national (and Institute) concern. Maybe you should consider a section titled "Tabloid Headlines You May Have Missed." Surely even another update on the Waco siege would be more newsworthy. We hope that this letter will help to alleviate the apparent shortage of material available for filling column inches.

Erika Schutte '95
Cora Dancy '93
Jeanne Thienprasit '95
Melissa Hayes '96

Parking Authority Out for Profit

To those of us who live, work, or park in Cambridge, it appears that the parking bureau is operating one step above legitimized corruption. As a model city acting under the guise of protecting the environment and adhering to the Clean Air Act, the City of Cambridge imposes parking "restrictions" to reduce air pollution by reducing the number of cars driving into and out of its boundaries.

But what if these "restrictions" increase air

pollution while raising revenue? Last Wednesday MIT heard the city's proposals for Zone 2, the area surrounding MIT. It was surprising to learn that these proposals were drafted without consultation with the MIT community, a community heeding well to environmental standards by using only 4,500 parking spaces for a population of scientists, staff, and students exceeding 18,000.

Basically, the city is calling for putting time meters wherever there is unrestricted parking and where no residential parking is needed. Imposing time restrictions where there are currently none means that there will be five or ten cars a day pulling in and out whereas now there is only one. This doesn't reduce air pollution. Using the Clean Air Act as political leverage to impose these "restrictions" makes a mockery of this legislation.

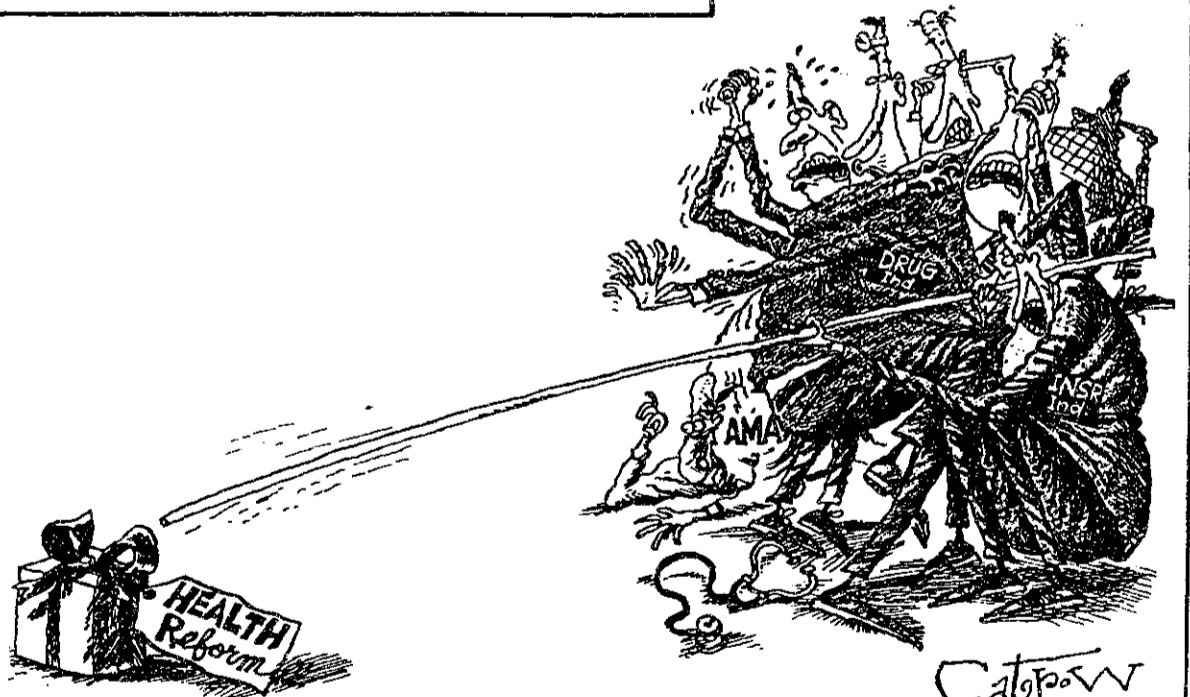
Maybe the principal motivation for these "restrictions" isn't clean air at all. Maybe the underlying motivation is raising revenue. According to Cambridge's assistant director of traffic and parking, the parking clerk raised \$6 million last year on parking tickets. A number that he should know well, but which my calculations indicate could be a lot higher.

It has been my perception that things have been getting out of hand. Tickets are being issued more and more irresponsibly and without consequence or accountability on the part of the parking clerk. This past winter I received two tickets for storing my vehicle on Amherst Street, which was highly unlikely since I drive to and from my home in Chelsea every day. What's more, I had to go through a

protracted and very stressful series of arguments with officials in the clerk's office before turning to the mayor's office to get them dismissed. In the parking clerk's characteristic fashion, verbal responses to tickets are ignored and written responses are not acknowledged. Is this the "improved service" that the city claims its \$6 million is being spent on? If you are going to contest a ticket by going to the clerk's office to see the (only) hearing officer, go when the line isn't too long and the hearing officer is not too busy, at lunch, and is in a compatible mood. (Also make sure you put extra quarters in the meter.) With all these in your favor, Cambridge's archaic system for contesting parking violations may work for you.

Why does haphazard ticketing exist in the first place? Because no one who works during the day has the time or patience to deal with the tense atmosphere of the parking clerk's incompetent bureaucracy, and the parking clerk knows this. The clerk is capitalizing on the seeds of inefficiency it has sown and on the MBTA's sporadic bus service to raise revenue through rampant ticketing rather than "improving services." If the clerk's office could improve services as well as it issues tickets and collects fees, Cambridge would be a lot more responsible, fair, and responsive to its inhabitants. Cambridge parking is imposing "restrictions" because they're having a field day raising revenue and putting up meters wherever they think they can make a buck, or a million.

Kurt A. Levens G



Catpaw
Copley News Service, Springfield News-Sun

Opinion 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.

Letters to the editor are welcome. They must be typed, double-spaced and addressed to *The Tech*, P.O. Box 29, MIT Branch, Cambridge, Mass. 02139, or by interdepartmental mail to Room W20-483. Electronic submissions in plain text format may be mailed to letters@the-tech.mit.edu. All submissions are due by 4 p.m. two

days before the date of publication.

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. Once submitted, all letters become property of *The Tech*, and will not be returned. We regret we cannot publish all of the letters we receive.

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Cult Leader to Surrender to Federal Agents

Column by Matthew H. Hersch
EXECUTIVE EDITOR

WACO, TEXAS APRIL 8, 2013 (AP)

With the standoff between Federal agents and the members of a religious cult approaching its 8,000th day, negotiators from the Federal Bureau of Lunatics say they are nearing a final settlement with the group's leader, musician and divine mouthpiece, David Koresh.

Koresh, who claims not only to be Jesus Christ but to own a pair of his underwear, is believed to have suffered serious emotional strain from the events of the past week and may now be willing to surrender to authorities assembled outside the 77-acre compound.

FBL Director Oswald Hossenffefer made this announcement in press conference late Thursday evening, amidst a flurry of applause. According to Hossenffefer, Koresh has indicated his desire to leave the compound and has requested that federal agents provide him with a map of Tibet and "suitcase large enough to hold a three naked women and a guitar."

Missile attack successful

According to Hossenffefer, Wednesday's dramatic cruise missile attack on the compound should be credited for the latest negotiation breakthrough. Of the 44 Tomahawk II missiles fired from the guided missile cruiser USS Homosexual, almost half of them landed somewhere in Texas, a success rate one Navy spokesman described as "neato."

Most of the missiles, according to the spokesmen, landed on the Al Rashid hotel in Baghdad. Koresh, who was later discovered to have kept a room at the Middle Eastern resort, was reportedly traumatized by news of its destruction, and appealed to the federal agents for a settlement soon after hearing of the attack.

President pleased

News of the breakthrough was received warmly by President Clinton, who hoped that Koresh's surrender would end the bloody confrontation that has raged between federal agents and Koresh's followers. The standoff,

which has lasted twenty years and has resulted in the loss of 3,000 men, 48 helicopters, fifteen B-52 bombers, and the battleship Wisconsin, has already cost American taxpayers an average of \$2 million.

Despite the news of impending settlement, though, the President reiterated her support for House Resolution 1462, which would mandate the forcible expulsion of Texas from the Union, and provide for the construction of a moat on the present Texas-Oklahoma border.

Said Clinton, "We just can't take another chance with Texas."

Hossenffefer deflects criticism

The hope of success in the David Koresh cult case has bolstered Congressional support for the FBL's management of the Koresh crises, which has been under increasing fire since the abortive FBL offensive last March. During the press conference, Hossenffefer also answered questions about the raid, cate-

gorically rejecting claims that the March raid, a frontal assault by Federal cavalry and archers on the thirty mile network of trenches, machine gun nests and barbed wire protecting the compound, suffered from poor planning.

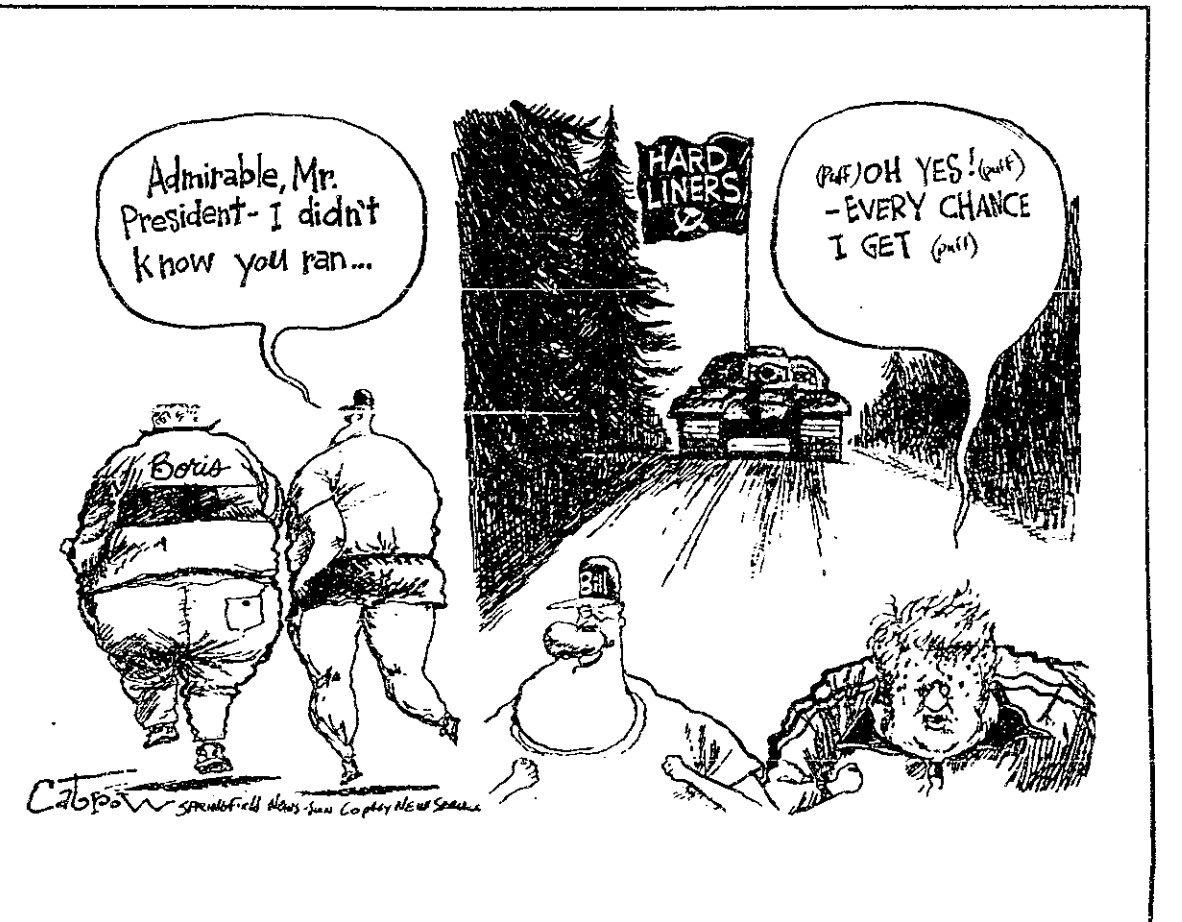
"What can we say? It looked really good on paper," Hossenffefer mumbled. "All that matters is that we've now finally turned the tide."

Koresh to consult The Lord

Koresh, who is expected to surrender on Friday, requested FBL agents refrain from bothering him Thursday evening so that he could consult with God, whom he has been unable to reach since February.

Said Koresh in a recent interview, "It's not [God's] fault. He's just turned off his beeper. He may be detained, or in the midst of a bowel movement. I'll call him again when he's finished."

Koresh is expected to surrender Friday evening.



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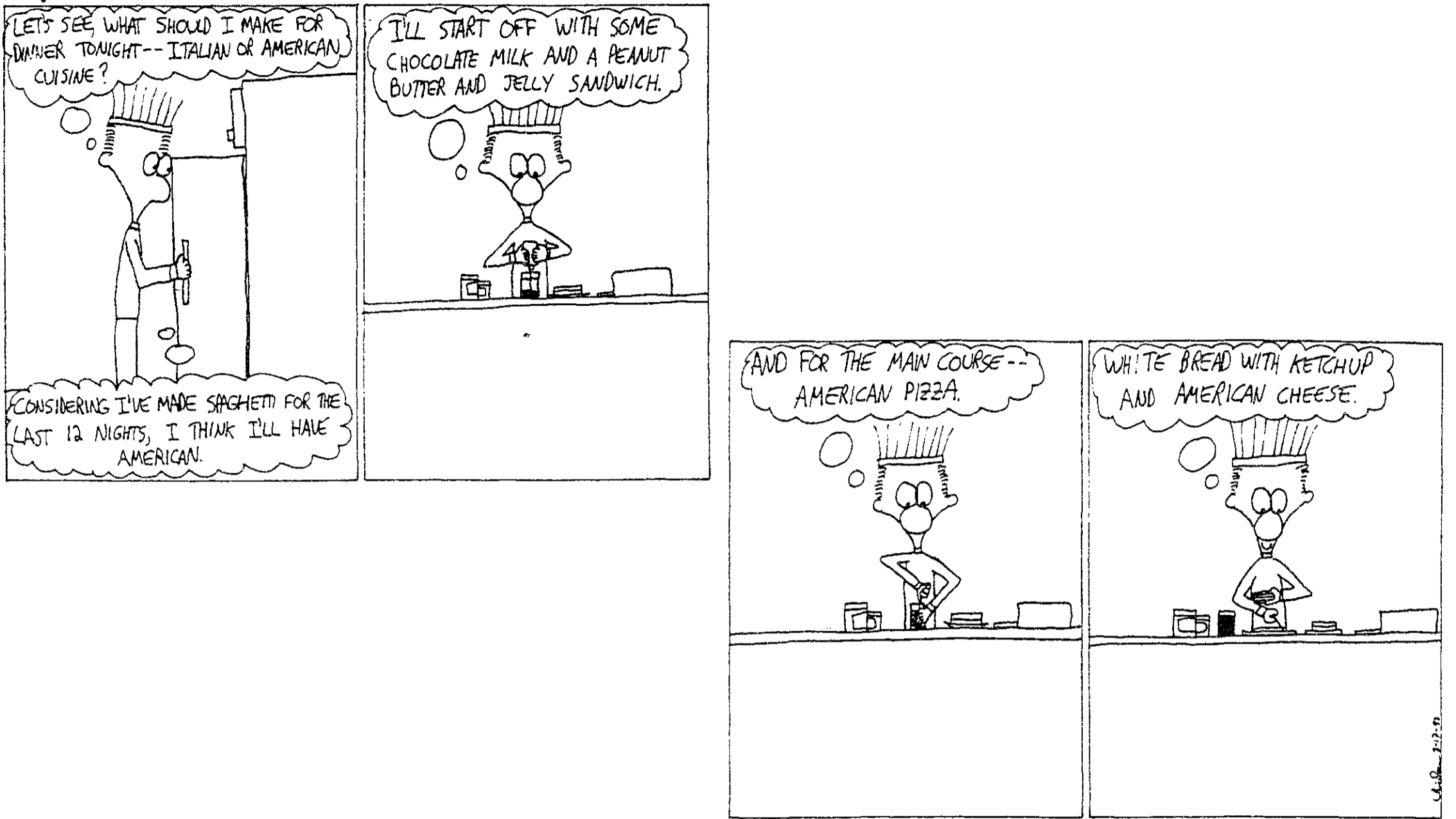
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Nick

by Chris Doerr



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Voting has started for the election of Student Members to the Harvard Cooperative Society Board of Directors for the 1993-94 academic year.

If you have not received a ballot, you may pick one up, along with instructions and candidate biographies, at the Cashier's Office of any Coop branch through Friday, April 16, 1993.

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Tong Criticizes Media

Tong, from Page 1

Martial law was imposed soon after Gorbachev left, and troops moved into Tiananmen Square two weeks later. "The government's response delegitimized the central government in the minds of the [Chinese] people," said Tong.

"Repression [by the government] is nothing new," Tong said. Though some government officials may have sympathized with pro-democracy movements before 1989, prison factories and torture and forced labor policies existed then and still exist today, Tong said.

American policy criticized

Tong criticized American policy toward China, noting that then-President Bush granted "most favored nation" trading status to China on June 2, 1989, without any conditions attached. The implied signal, he said, was that the US would "do business as usual."

One day later Chinese troops entered Beijing to suppress the peaceful demonstrations. He attributed the American attitude in part to Cold War politics in which the United States attempted to use China as a buffer against the USSR. He expressed hope that President Clinton would require that trade with China be contingent on human rights improvements. Tong also expressed concern that Clinton's campaign rhetoric would not transform into concrete policies.

Tong also criticized the media's

ignorance of the situation in China at the time. Tong said that only the coincidental timing of Gorbachev's visit catapulted the Chinese demonstrations and government atrocities to the world stage. He cited the naming of Deng as *Time* magazine's "Man of the Year" twice as a sign of the media's ignorance of China's state of affairs.

Tong expressed hope for the future, saying "China is going to change — China is changing — and the change will come from within." Many of the "old guard" is dying off, he said. He emphasized that "external factors" can and should "play a positive role" in promoting reform in China.

Tong answers questions

After the talk, Tong was asked whether countries should do business with China. He replied that if countries attach conditions to trade, and follow guidelines like the Miller principles, which are analogous to the Sullivan principles formulated to guide dealings with South Africa, business would be acceptable.

Tong fielded a question about Chinese occupied Tibet, which he said was a politically sensitive situation about which there was little agreement among his colleagues. Self-determination is an ideal, he said, but may be difficult to apply because Tibetans are now a minority in their own land as a result of recent Chinese immigration policies.

Biomedical Program Starts

Bioengineering, from Page 1

Richard J. Cohen PhD '76, Professor of Chemical Engineering Robert S. Langer Jr. ScD '74, and Professor of Electrical Engineering and Computer Science Alan J. Grodzinsky '69.

The biomedical engineering program is expecting to hold a symposium on New Technologies in Health Care in 1994 to foster links with commercial firms in the health care industry.

SOLUTIONS

Puzzle, page 10



MIT/Lincoln Connect to Net

Fiber, from Page 1

Laboratories is known for its ability as a system integrator. Finally, MIT professors view the project in terms of its long range effects and possibilities, Kennedy said.

The three party consortium has received \$8.4 million in funding from the Defense Advanced Research Projects Agency, a government agency which has been supporting computer science and network research for many years.

Fiber hard to connect

Lincoln Laboratories will soon be connected to the test-bed, but it may take longer for MIT to become connected. There is already fiber optic cable underground from MIT to Lincoln Laboratories. But MIT is still negotiating with the New York and New England Telephone Company to try to use this cable.

As it is, the cable has termination equipment on it. Just like other

conventional communication lines, this cannot take advantage of the full capabilities of the fiber optic cable. The Institute wants permission to get at the fiber optic cable itself.

"The phone companies feel that those lines are there for commercial use and to make money, not for research," Kennedy said.

If the Institute is not able to get directly at the fiber optic cable, it will still be connected to Lincoln Laboratories electronically.

Meanwhile, Columbia University in New York City and Bellcore are working on a smaller fiber optic network which also has applications for a national information highway.

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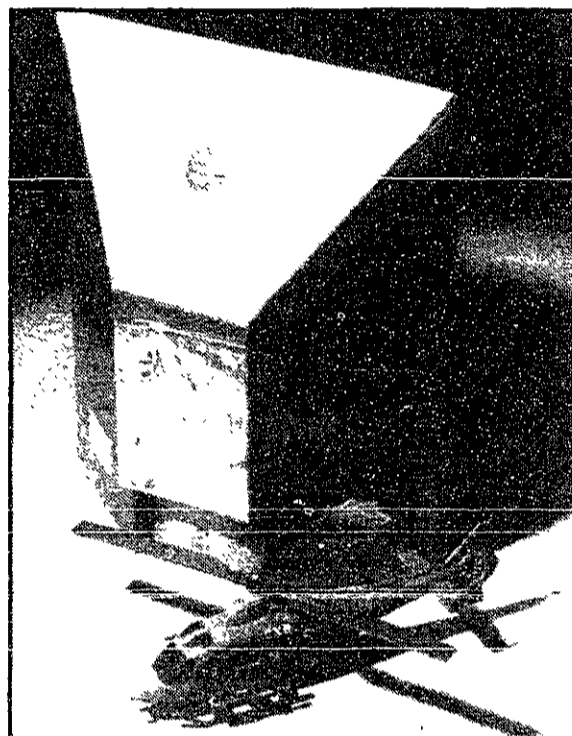
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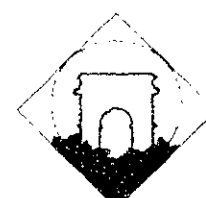
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THE ARTS

Refuse this high-gloss *Proposal* at any cost

INDECENT PROPOSAL

Directed by Adrian Lyne.
Screenplay by Amy Holden Jones
based on the novel by Jack Engelhard.
Starring Woody Harrelson, Demi Moore,
Oliver Platt, and Robert Redford.
Loews Cheri.

By Douglas D. Keller
CHAIRMAN

Indecent Proposal answers the obvious question: What would happen if you took the plot from *Honeymoon in Vegas* (removing the intentional comedy and flying Elvises), added touches of *Good Morning Vietnam*, *The Color of Money*, *Pretty Woman*, *Wall Street*, and *Fatal Attraction*. On top of that add the "canine cam" from *Late Night with David Letterman*, dime-store philosophizing, and numerous variations of the "arrow cam" from *Robin Hood: Prince of Thieves*.

You're probably thinking, "Gosh, Doug I never thought to ask that question," or "I don't think that any of those movies or camera tricks have anything to do with each other." You're right, they don't. But that doesn't stop Adrian Lyne (*9 1/2 Weeks*, *Fatal Attraction*, *Flashdance*, *Jacob's Ladder*) from putting his own high-gloss shine on this peculiar amalgam.

If you missed the hype, *Indecent Proposal* is about a married yuppie couple David and Diana Murphy (Woody Harrelson and Demi Moore) who fall on hard times with the housing bust of the late '80s; David is an architect and Diana a real estate agent. In danger of losing David's half-finished house, an homage to all he likes about architecture, they borrow \$5,000 from David's father and drive to Vegas to win \$50,000 to save the house. After being up \$25,000, they lose it all. But don't lose hope — billionaire John Gage (Robert Redford) has taken a liking to Diana and enshrines her and David in a suite at the Vegas Hilton. Rather philanthropic of him,

eh? But Gage is out to prove something, that he can buy love just as easily as he buys land. He offers David and Diana, over a game of pool (*The Color of Money*), a million dollars if he can sleep with Diana for a night. After a brief morals search in their posh suite, it is decided that Diana will sleep with Gage. David calls his lawyer, Jeremy (Platt), to draw up a contract. Jeremy tells him that he shouldn't have negotiated without his lawyer because Jeremy could've gotten at least two million for Diana.

With the deal being consummated, David and Diana try to settle back into their normal lives. But their marital bliss has been shattered as neither of them can handle the consequences of this indecent proposal. The two decide that they need a breather from each other and split up.

Meanwhile, Gage can't get Diana out of his mind and so he tries to win her affections. In a scene reminiscent of the school-room one in *Good Morning Vietnam*, Gage interrupts a class that Diana is teaching after taking a second job as a citizenship teacher, to

INDECENT PROPOSAL

prove his true affection for her. Diana gives in to Gage's charm and begins to fall in love with him.

David realizes that he was wrong to distrust her but soon learns that Diana wants a divorce and that if he doesn't contest it, he can have the million dollars. Rather philanthropic of her, eh? But in a true philanthropic gesture

David, finding Diana and Gage at a celebrity zoo endangered species auction, bids the million on a hippopotamus. A touching scene then follows where David explains to Diana that he was actually the better man and should have realized it in the beginning so that he would not have been jealous of Gage. David then signs the divorce papers and leaves.

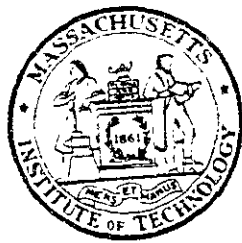
In the limo ride home, Gage, in a sudden

Proposal, Page 9



David Murphy (Woody Harrelson, left) confronts John Gage (Robert Redford, center), his ex-wife Diana Murphy (Demi Moore), and one of Gage's employees (Seymour Cassel, right) in *Indecent Proposal*.

DECISION TIME!



DECISION TIME!

COURSE 16 - AERO/ASTRO

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THE CLASS OF '96 & FRIENDS TO ITS:

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FRIDAY APRIL 9, 1993

- Lab Tours & Videos with student guides
- Meet in Room 33-206, 2:15pm-3:15pm.
- Seminar on Unified Engineering
- Room 10-250, 3:15pm-4:00pm.
- Who, What, Where, and Why "Unified"?
- Features student speakers & TA's, telling it "like it is".
- The Course and its Support System.
- Party, Room 33-120, 4:00pm
- Food, Friends, Fun & Conversation.

The Department of Aeronautics and Astronautics invites the men and women of the Freshman Class --the Class of '96-- to an Open House and Snack Party on the afternoon of Friday, April 9, 1993. Featured will be Laboratory Tours, guided by Aero/Astro students and active staff, and the second annual Unified Engineering Seminar. This seminar, repeated by popular request, will help you understand what Unified Engineering is all about. The Seminar will specifically feature current Aero/Astro students and TA's who are now taking "Unified", and who will answer your questions and describe their own experiences, good or bad. The Seminar will be followed by a party in Room 33-120, featuring food and beverage, friends and conversation with Aero/Astro students at all levels. The lab tours will start in Room 33-206 at 2:15pm, where videos about recent Aero/Astro projects will also be screened. The Seminar will take place in 10-250.

Label Proposal inane In addition to indecent

Proposal, from Page 8

magnanimous gesture (à la *Pretty Woman*), gets rid of Diana because he realizes that Diana will never look at him the way that she did at David during the last, touching scene. The movie ends with Diana and David reaffirming their love at the pier that David proposed to her.

Basically, this movie is an attempt to validate the yuppie greed of the '80s and to reform this greed into the more "P. C." '90s. Everything is very posh, like the leather appointments of Gage's Rolls Royce limo. Gordon Gecko in *Wall Street* said "Greed is good," and *Indecent Proposal* seems to agree. Diana loves David, but her love is not above being manipulated and bought by Gage.

Lyne has done an admirable job in bringing his advertising experience to bear on this pitiful script — making it a high-gloss vehicle. But most of the time the movie goes beyond high-gloss and approaches a blinding level. *Indecent Proposal* is chock full of trite camera tricks; the camera follows billiard balls, craps dice, and roulette balls in a dizzying display of special effects. Other camera trickery includes a dog licking the lens to sim-

ulate the pooch waking David up or the scene in David and Diana's kitchen when the camera takes on a skewed perspective which immediately reminded me of those of the Batman television series.

Indecent Proposal is a perfect representation of what is wrong in Hollywood today; it is devoid of any real substance or emotion, lacks creativity, and relies too heavily upon cheap special effects. The only memorable scene in the movie is when David and Diana make love on the kitchen floor (*Fatal Attraction*). I found this scene memorable because of a continuity problem. David's dirty underwear lands next to a lit burner after Diana throws it at him at the beginning of the scene. The underwear disappears only to reappear several frames later as it catches on fire as Diana moans, "David, you're pants are on fire."

At the beginning of the movie, Diana (paraphrasing Sting, I think) says, "If you love something, set it free. If it comes back then it was meant to be. If it doesn't, then it wasn't meant to be in the first place." For *Indecent Proposal*, I prefer this variation, "If you love something, set it free. If it doesn't come back, hunt it down and kill it," which is what Paramount should have done with this script.

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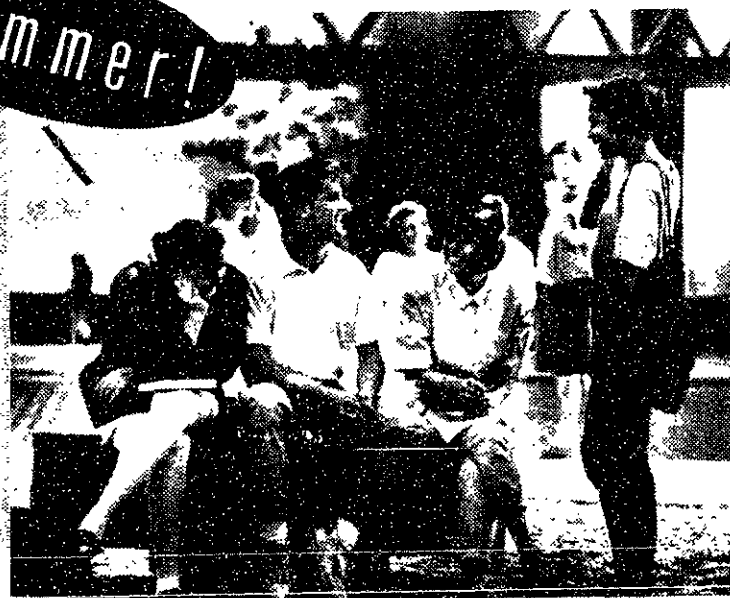
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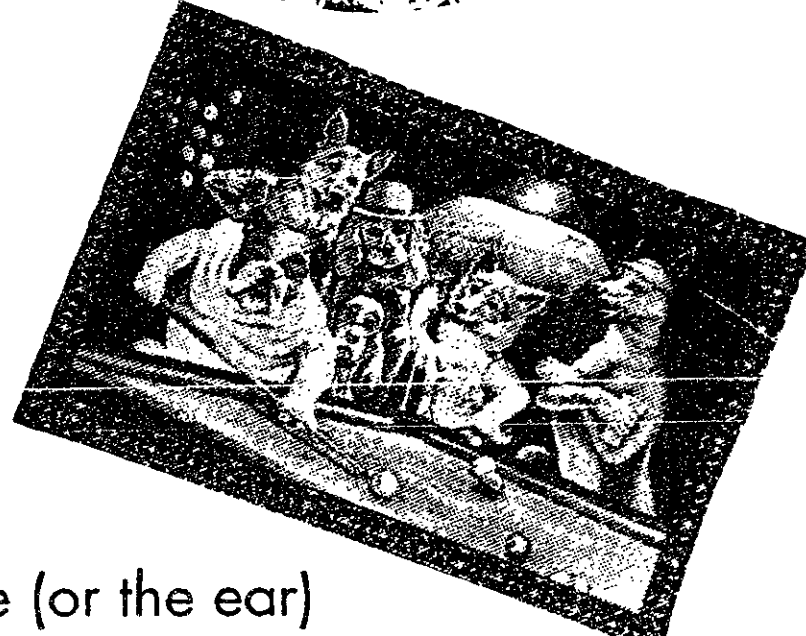
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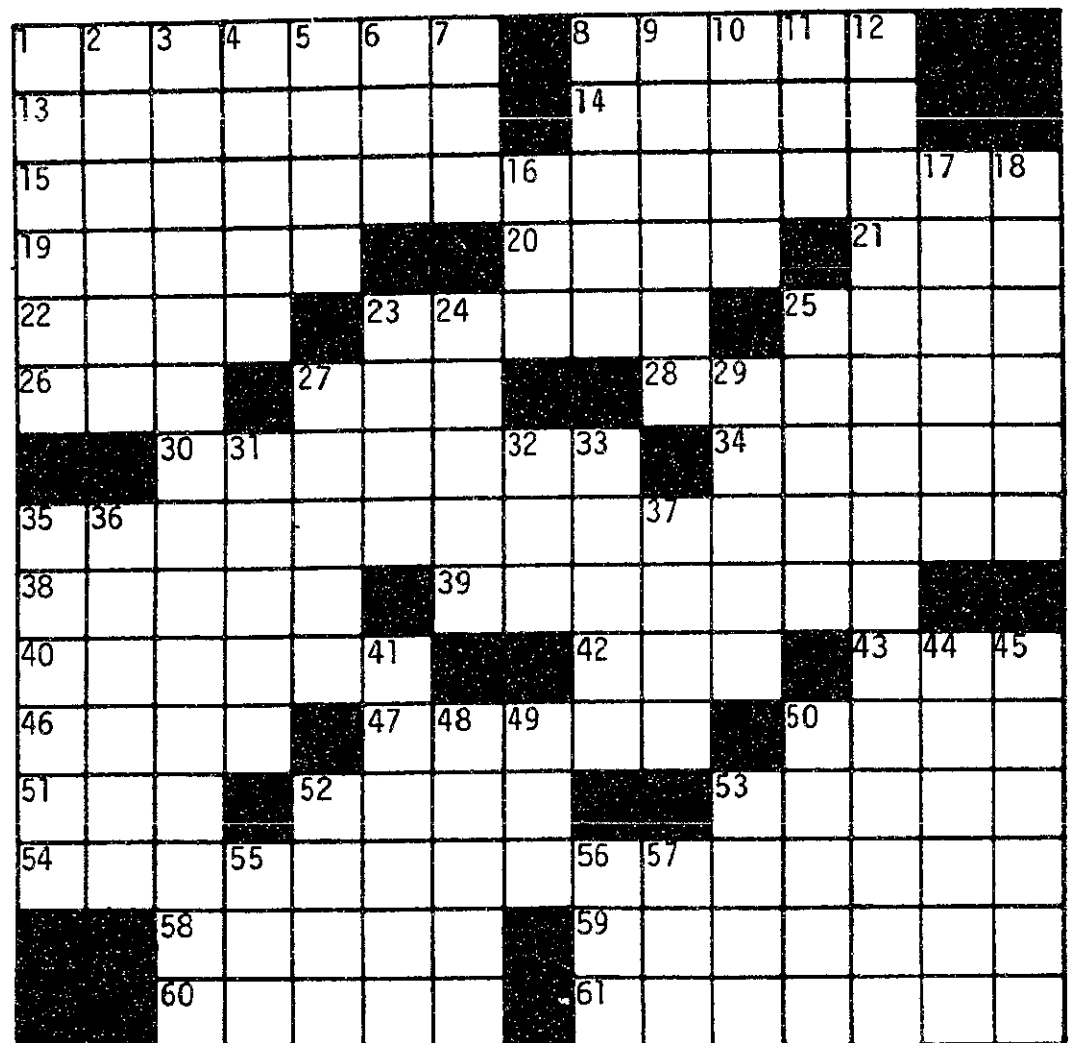
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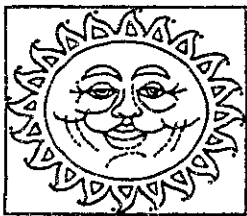


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Solutions Page 7

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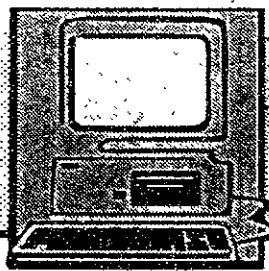


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Jim's Journal

by Jim

Today Ruth and I went driving around.

She was running a bunch of errands and I just came along.

We went to a couple of stores, the post office, and places like that.

When we were done, Ruth said, "That was kind of fun, wasn't it?"

Today Tony told me to watch the local news tonight because he was on it.

"I was right on camera, Jim—right on camera," he said.

He said he was walking by the lake when they were doing a story on it or something.

I watched the channel he told me to watch, but I didn't see him on it.

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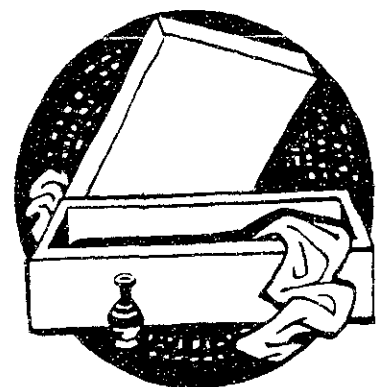
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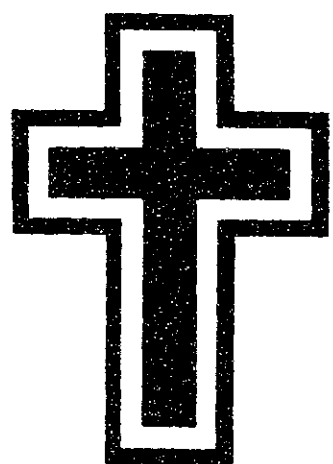
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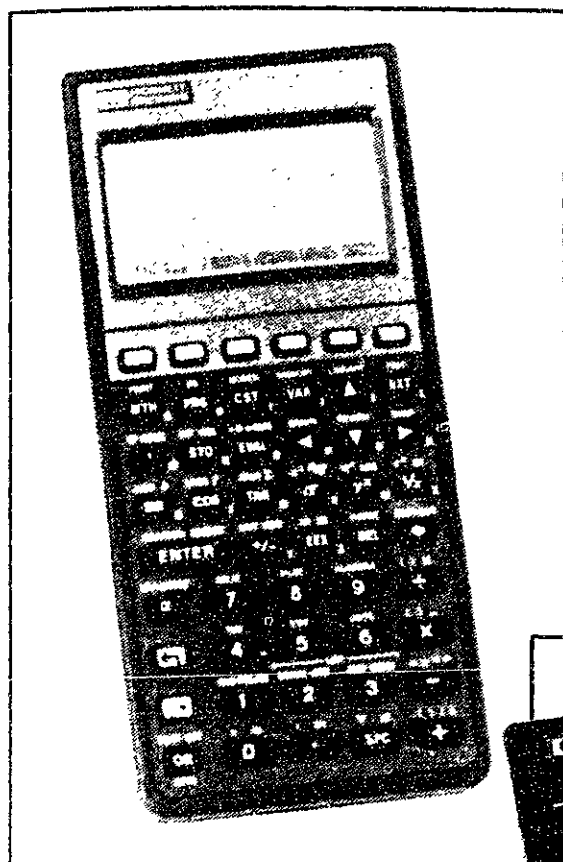
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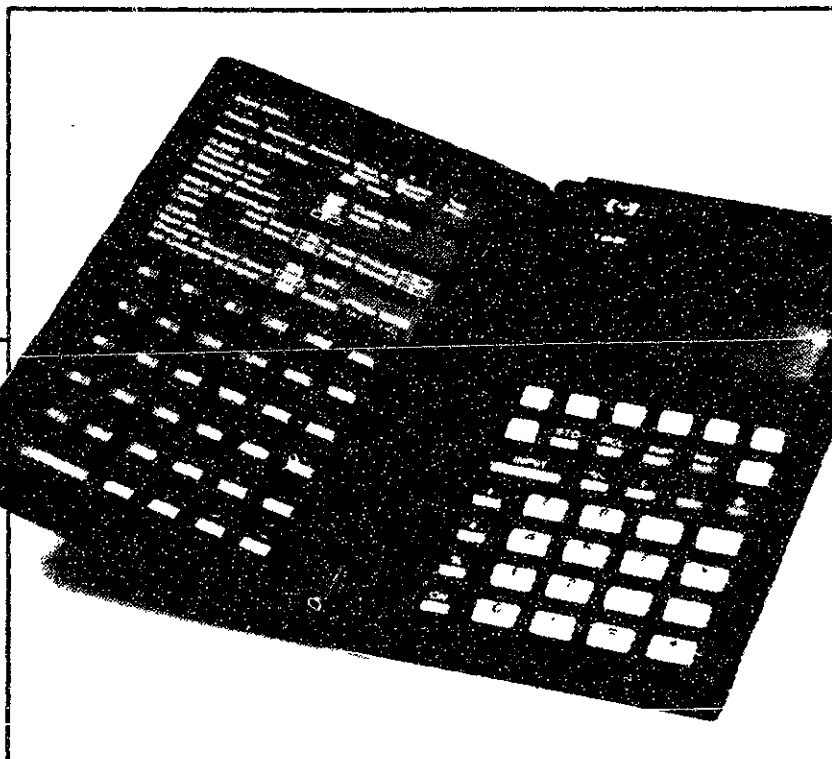
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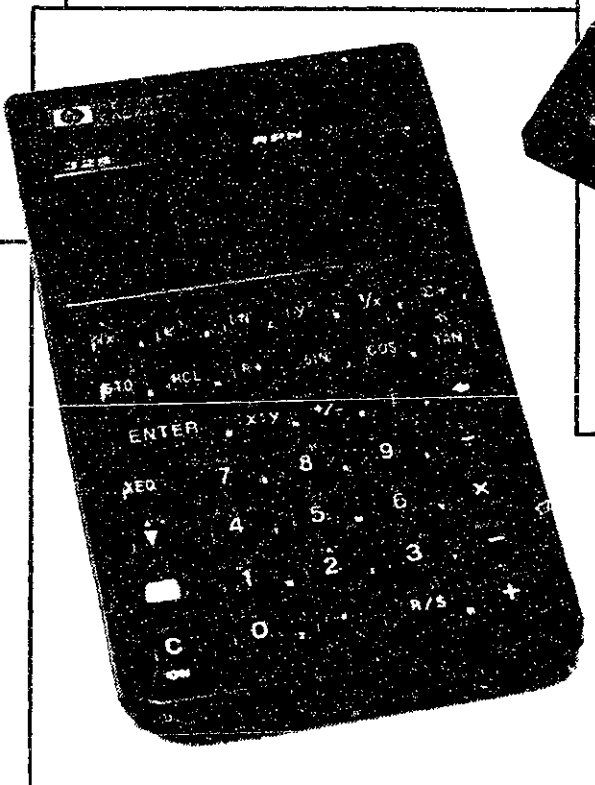


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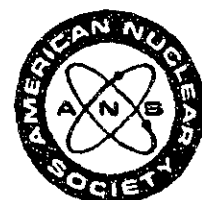
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The Expos Will Be the Best of the (L)East this Season

Let's Argue, from Page 16

will keep them in position should the top two falter. The pitching staff carries quality arms in Steve "Beer" Welch, Ron "Oh My" Darling, and there's no reason to believe that the controversial (in our minds anyway)

AL MVP last year, Dennis "Two Batters" Eckersly, can't do the job from the pen. A lineup including Mark "McGwinn and" McGwire, Dave "Hondo" Henderson, and Ruben "Madre" Sierra should provide some long ball out in Alameda. Still, the Athletics lack defense and

the rest of the pitching, especially Bobby "3.091" Witt, is suspect at best.

4. Texas Rangers. All stick and no glove leads to a repeat fourth place performance for the Rangers. The sticks include Jose "Can You See" Canseco, Rafael Palmeiro, and

Juan Gonzalez, so balls should be jumping during those Sunday night games. Look for 21-year old Ivan "Pudge" Rodriguez from the Island to become one of the best catchers in the AL. The acquisitions of Charlie "General" Liebrant and Tom Henke should merely offset the loss of Juan Guzman, and therefore not improve a weak staff much. Anticipation of the North Stars moving to Dallas next season should keep attendance low at Arlington for most of the season.

5. Seattle Mariners. Organ player's rendition of Nirvana's "Lithium" during the seventh inning stretch should account for an extra 5-7 wins at home for the Seattle men, but it will not be enough to lift Lou Pinella's club out of perpetual mediocrity. Ken Griffey Jr. will again display far more talent than his club deserves, and the bats of Edgar "I'll Have a Dry" Martinez and Jay Buhner will keep the ball bouncing around the Dome. Look for the Mariners to average more offense per game than the lowly Sea Doves.

6. Minnesota Twins. Now that Dave Winfield has a World Series ring, he will not be nearly as productive as last year, and the Twinkies will suffer from his strikeouts. Kirby "Union Gap" Puckett, who is finally getting recognition, will not contribute much either, in part because of his wise decision not to join the Red Sox. Scott "Leif" Erickson leads an underarmed pitching staff into battle in the dangerous confines of the Homerdome. Finally, the loss of Greg Gagne will hurt more than Tom Kelly thinks.

7. California Angels. There won't be much competition for the basement in the AL West for the Halos. Beyond the great pitching of Mark Langston and Chuck Finley, the boys from LaLa land have youth

but little else. J.T. Snow is rumored to be a good prospect at first base. By mid-August, there won't be many fans at horrible Anaheim Stadium to scarf down the tofu dogs...

NL (L)East

1. Montreal Expos. The Expos will provide a reason for the locals to leave their house this summer. They boast the best young talent in the division, with Delino DeShields, Moises Alou, Marquis Grissom, and Larry "Space" Walker. The pitching is equal, if not better, than that of any other team in this division, with Dennis "Shaken, not stirred" Martinez and Ken "Hamburger" Hill as the 1-2 men. Their closer is John "I'm in the" Wetteland (as soon as he recovers from breaking his toe), and he has talent. The only thing that could hurt the Expos is their youth, but they should have a big enough lead over the Mets that this won't pose a problem.

2. New York Mets. The Metropolitanians have a strong pitching staff, when healthy, led by Brett "Light" Saberhagen, Dwight Gooden "N Plenty", and Sid Fernandez. However, questions remain about Sid's shoulder and the health of closer John Franco in general. The lineup could be potent, with a rejuvenated Vjnce Coleman and an adapted Bobby Bonilla, but the defense will give up as many runs as they can.

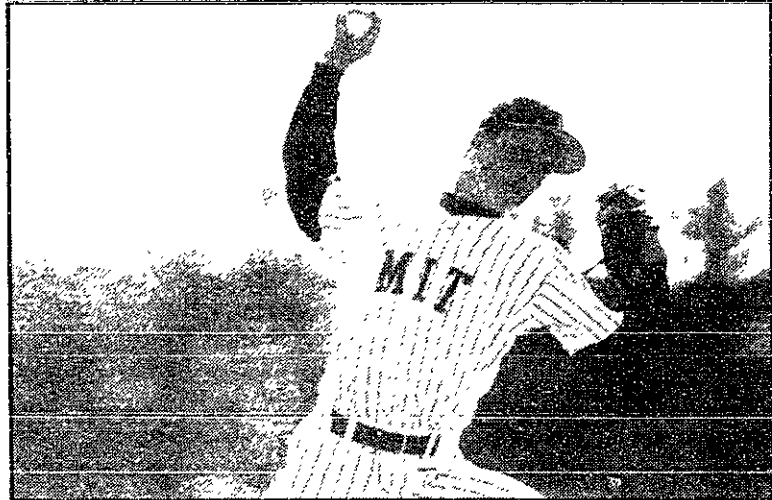
3. Philadelphia Phillies. The key to the Phillies' season is Lenny "Poker Chip" Dykstra. When at full speed (no pun intended), the Phils are dangerous, but when nursing an injury, they are on par with the Sox. The rotation is lousy, as their two man, Danny Jackson, and the erratic Mitch Williams are proof of. Yet with the Sixers and Flyers for folks in Philadelphia to cheer for all win-

Let's Argue More, Page 15



JOSH HARTMAN—THE TECH

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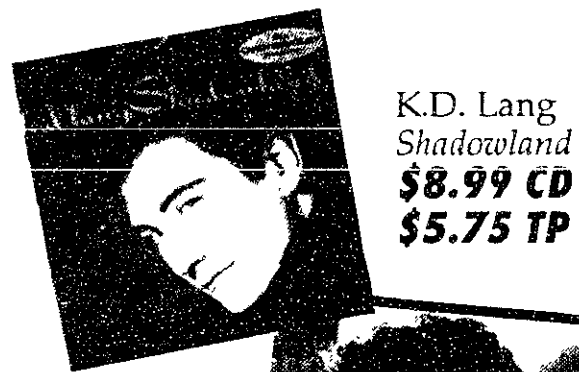
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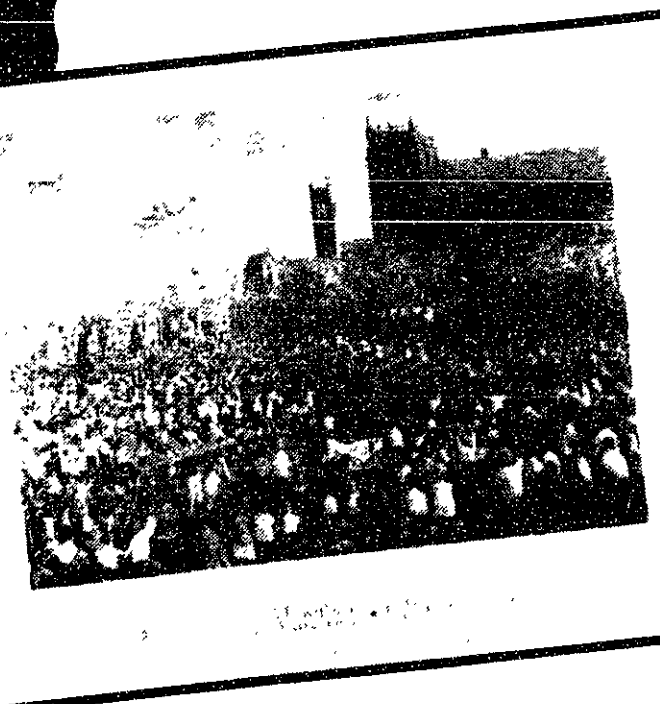
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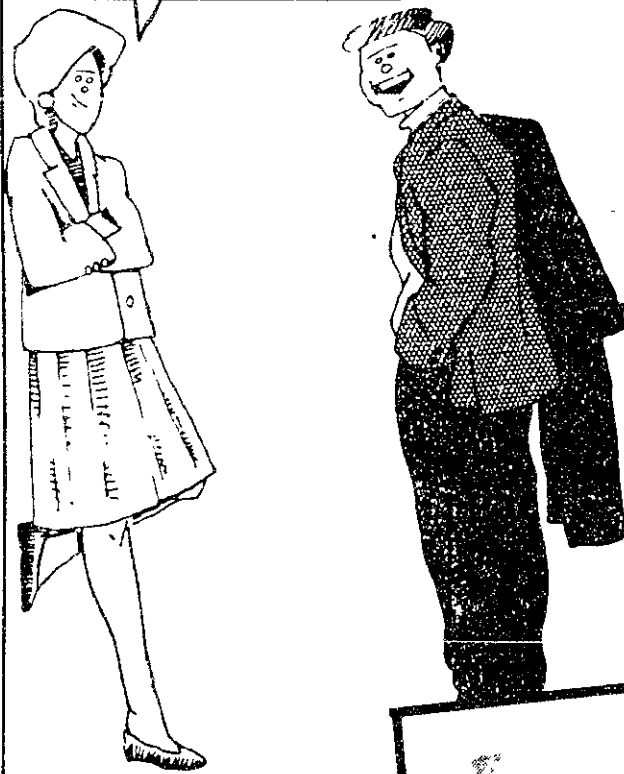
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Expansion Marlins Will Edge out Cubbies and Pirates

Let's Argue More, from Page 14

ter, the Phils will provide competitiveness and hustle for the locals, which will be a pleasant surprise.

4. St. Louis Cardinals. The pitching is respectable, with Bob Tewksbury and Joe Magrane, and the offense is potentially dangerous. Brian "I looked over" Jordan, Ray Lankford, and Bernard Gilkey make up the second best outfield in the division, while the addition of Gregg Jefferies could provide some more punch. Still, there are too many questions remaining for us to place them higher.

5. Florida Marlins. Why not? The lineup has some well known names in Benito Santiago, Dave Magadan, and Walt "Miami" Weiss, while the pitching staff boasts the starter of the 1990 All Star game, Jack Armstrong, as well as Bryan Harvey. The fans will provide the

enthusiasm, Orestes Destrade the power, and Nigel "1.00" Wilson the speed to carry the Marlins to fifth.

6. Pittsburgh Pirates. While Jim Leyland is the best manager in the league, even his hands are tied this year. The loss of Doug Drabek leaves the Bucs with a rotation of Zane Smith, Randy "Lily" Tomlin, and Bob "Intentional" Walk. The lineup has household names such as Kevin Young and Al Martin. While Leyland will work some magic for a while, as the August heat rolls in the Bucs will start to fade.

7. Chicago Cubs. Sorry, Harry, but the Cubs are going nowhere this year. With Shawn Dunston on the DL and Ryne Sandberg's broken hand still a problem, the Cubs have no 'O' to speak of (aging vets such as Willie Wilson and Candy Maldonado won't do). The loss of Greg Maddux is a killer, so let's hope the beer is flowing nice and cold for the

Bleacher Burns.

Bonehead Play Of The Week

The final minute of the NCAA Championship game provided enough fodder for this feature that we will be handing out four awards this week:

I. To Michigan's Ray Jackson whose foot was 2 inches over the three-point line when he buried his long distance J to bring the Wolves' down only 3 (72-69) with 46 seconds left. Had he made a three-pointer, Chris Webber's rebound hoop would have tied the game, the Wolverines would not have fouled, and awards III and IV would not have occurred.

II. To North Carolina's Brian Reese who stepped out of bounds with 45 seconds left following Jackson's jumper, turning the ball over to Michigan.

III. To referee Ed "Officer" Hightower for being the only one out of 65,000 people in the Superdome to miss Webber's walking violation after grabbing the rebound off of Sullivan's missed free throw.

IV. Because he's already getting so much flack we won't mention his name (but it rhymes with "This Schlebber"), for imitating Dicky V's with 11 seconds left, thus leaving the Wolves 1 loss away from being bowling partners with the Buffalo Bills...

You heard it here first

China will be awarded the 2000 Olympics. The communists in Beijing, smelling the green that comes from the television rights to the Games, have purchased 1 billion knee pads in preparation for the IOC visits. IOC chief Juan Antonio Samaranch is certainly not one to ignore a good kissing up to...

Race For Futility

Ottawa: 0-39-0 road
Mavs: 8-64
Rockies: 0-1
Dodgers: 1-1

The number of wins on the road for the Senators is equivalent to the number of days the school year should be extended by, while the Mavs magic number for futility history is at 10. The Rockies' win total is equivalent to the number of times Barbara Streisand will be singing the national anthem in Colorado, while the Dodgers get an appearance for losing to the Marlins in Florida's first game ever. Though not here yet, we expect the Red Sox to make their first appearance in a couple of weeks...

Globe gem of the week

Fan favorite Bob "Onion Ring" Ryan is back with a vengeance. Though he served up innumerable gems this week, space constraints (and space should never be constrained) permit us to submit only the following: "Suppose you decided to put the bambino to beddy-bye...the nattering nabobs of negativism can slice and dice..." Could he be referring to Shaughnessy or Ryan with a pizza or Steve Fainaru taking his daily nap in the Red Sox press box?

From our man in the Islands, Geno Torres '93, comes this list of has been Puerto Rican basketball players:

Pachin Vicens, Fufi Santori, Reymond Dalmau, Neftali Rivera, Hector Blondet, Ruben Rodriguez, Pepin Galarga, Charlie Bermudez, Roberto Balderas, Freddie Lugo, and Frankie Toruella...

Trivia question of the week

What baseball expansion team has the best overall winning per-

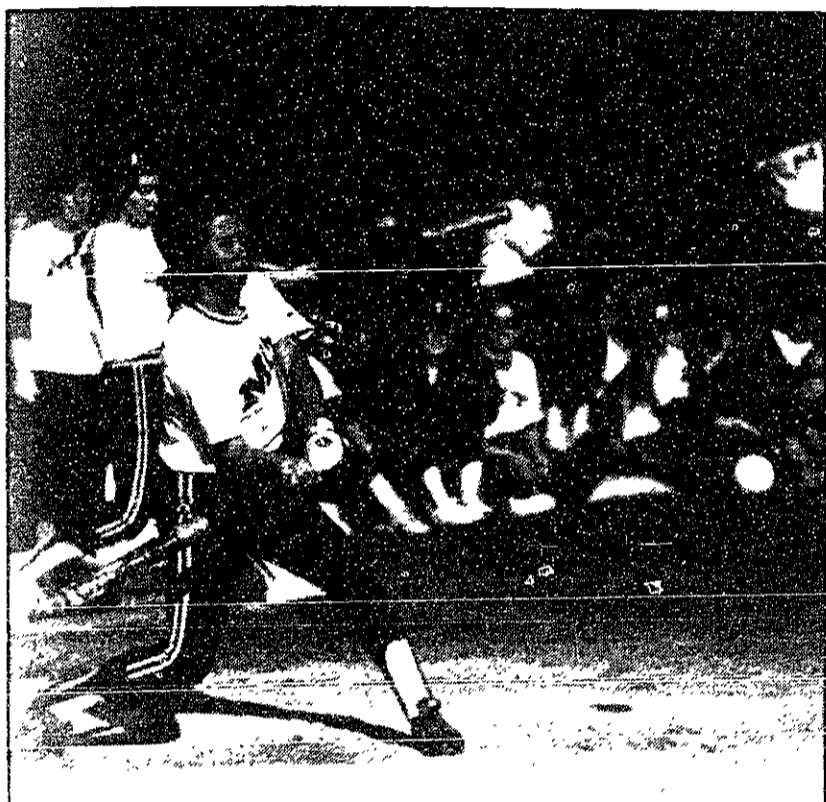
centage (including the original expansion teams in the year of 1961)? Send answers, comments, and baseball predictions to sports@the-tech. For Pat Moriarty, Atchinson, Kan., the fax number is (617) 258-8226.

Answer to last week's question: Jackie Robinson who won the award in 1947 (by the way there was only one award given out in 1947 and 1948). Kudos to Geno, Jonathan Sigman '95, and Frank DiFilippo G, who all got it right. They all win a free trip to the fantasy camp of their choice. For the Democrats: A week at Bill Clinton's "Pitch Like A Champ" camp. See tapes of opening day at Camden Yards for an example of how you, too, can throw after a week with Slick Willie. For the Republicans, a full two-and-a-half lame duck months at the Dan Quayle "Diddle the Hours Away" computer PGA Tour camp. Lessons are taught on IBM, Apple, or Nintendo computer systems, your choice. As a bonus, every Wednesday is karaoke night, and you can sing the National Anthem along with Roseanne Barr...

MIT TWIB notes

The men's lacrosse team fields a tough squad this year as Stephan Feldgoise G, Abe Udobot '95, Dylan Bruno '94, and Hyung Chang G lead the Beavers into battle. Come support them as they play their home games in Steinbrenner Stadium...

Good Luck to the Men's Volleyball team as they compete in the Division III regional tournament down in the state of Pa. this weekend. Danny Alvarez '93 and Juanito Ramos '93 provide the spark for the Techsters...



BEN WEN—THE TECH

Naomi Stone '96 bats during yesterday's game against Emmanuel. MIT took a loss 11-2.



LENNY SPEISER—THE TECH

The Women's lacrosse team soundly defeated Pine Manor on Wednesday.

Track Wins First Meet of Year

Track, from Page 16

then placed second in the 800-meter run, and the meet was well in hand for the Engineers.

Jay Chiang '94, Kevin Knoedler '95, and Bo Light '96 finished first, second, and fourth in the 400-meter hurdles, and Ugarov won his second event of the day, when he, Hui, and Than Bogan '93 finished first, second, and fourth in the triple jump. Sprinter Matt Sandholm '96 had a pair of second places in the 100-meter dash and 200-meter run along with a relay victory; Malik King '94 also had a fourth in the 100-meter, and Brad Geilfuss '94 took fourth in the 200-meter. Dan Corcoran '94 and Ed Patron '95 finished second and third in the 400-meter run, Andy Laues '95 placed fourth in the javelin, and Jesse Darley '95 had to settle for second in a hard-fought 5,000-meter run. The day finished as Targino, Corcoran, John Rodkin '95, and Chris Schell '96 blew away the field in the 1,600-meter relay.

The track team travels to Worcester this Saturday to battle WPI and RPI for the Engineer's Cup, which MIT has not won since the Carter Administration.

The Tech Sports Hotline: 253-1541

RUNE

The MIT Journal of Arts and Letters

Announces
a public reading
from 14RUNE

Thursday, April 22
7:00 pm

Bartos Theater of the MIT Media Lab
20 Ames Street
Cambridge, MA
Free and open to the public

For more information, contact
Leelila Strogov at 225-1527

SPORTS

Some Final Thoughts
On NCAA Basketball

Plus... the Conclusion of Baseball Preview

Column by Mike Duffy
and Andrew Heltner
SPORTS COLUMNISTS

Before we jump in to the conclusion of our baseball previews, we have some final thoughts on college basketball. First, we would like to take time out to send our best wishes to Coach Jimmy Valvano in his battle against cancer. It was 10 years ago that Lorenzo Charles capped an incredible season for the N.C. State Wolfpack with his follow up jam versus Houston in the NCAA championship. Who can forget Jimmy V. frantically running the floor looking for someone to hug as the stunned Cougars looked on. Today, Coach V. still proves to be an inspiration to us all as he fights the battle of his life. Here's to you Coach.

Next, we would like all those critics out there to listen to themselves when they say Dean Smith is not a good coach. It started with Cincinnati's Nick Van Exel and continued throughout the Final Four (especially here in Boston). These 'critics' point out that Smith has only won two national championships and that each of these were tainted (the 'steal' and the phantom T), despite the fact that Smith had the likes of Wood, Jordan, Worthy, and Daugherty playing for him throughout his tenure. But they neglect to mention that he has made the Sweet 16 more times in a row than Boston College, UMass, and other the other New England teams combined have. They also don't mention the fact that Jordan and Worthy left college early, thus costing him another title. The man will end his tenure at Chapel Hill with more wins in the NCAA than any other coach in history and needs no more wins to guarantee his place in Springfield.

Thirdly, we would like to take time to say that it is a crock that head coaches are allowed to freely change teams (see Eddie Fogler at Vandy and Joby Wright at Miami, Ohio) when a better opportunity presents itself, while players must sit out at least a year when they want to make a school change. Coaches argue that players should choose a school on the basis of what the institution has to offer, not solely on a coach. If this is the case, why won't coaches release transfer-minded players from their letter of intent and let the players switch schools, thereby making the player sit out only a year, rather than hold them to it and make any player still wanting to make the change sit out two years. The most obvious situation arises when a school is placed on probation and the coach jumps ship and goes to another school (see Eddie Sutton). Meanwhile, the players must pay for the stupidity of the coaching staff and finish their careers in obscurity.

Lastly, it's about time for the NCAA to revise the college game slightly by moving the three point line further from the basket, from 19 feet, 9 inches to 21-9, the distance of the line in international play, and exactly in between the 19-9 in high school and 23-9 in the pros. The NCAA wisely introduced the trifecta six years ago to add excitement to the final minutes by allowing big comebacks, to increase the importance of the little man, and to open up the inside for the big men by stretching the defense thin. Now, however, the shot has become too easy for players at the college level (see Donald Williams' 10-for-14 shooting in the Final Four) and more of an offensive weapon than originally intended (see Rick Pitino and Kentucky). Moving the line back will still allow for "fantastic finishes," will open the floor even more for the big men, and, if college players get good enough at it, may someday allow the USA to field collegians in the Olympics again, as opposed to the sneaker salesman they have now...

We round out our 1993 baseball preview with predictions for the American League West and National League East:

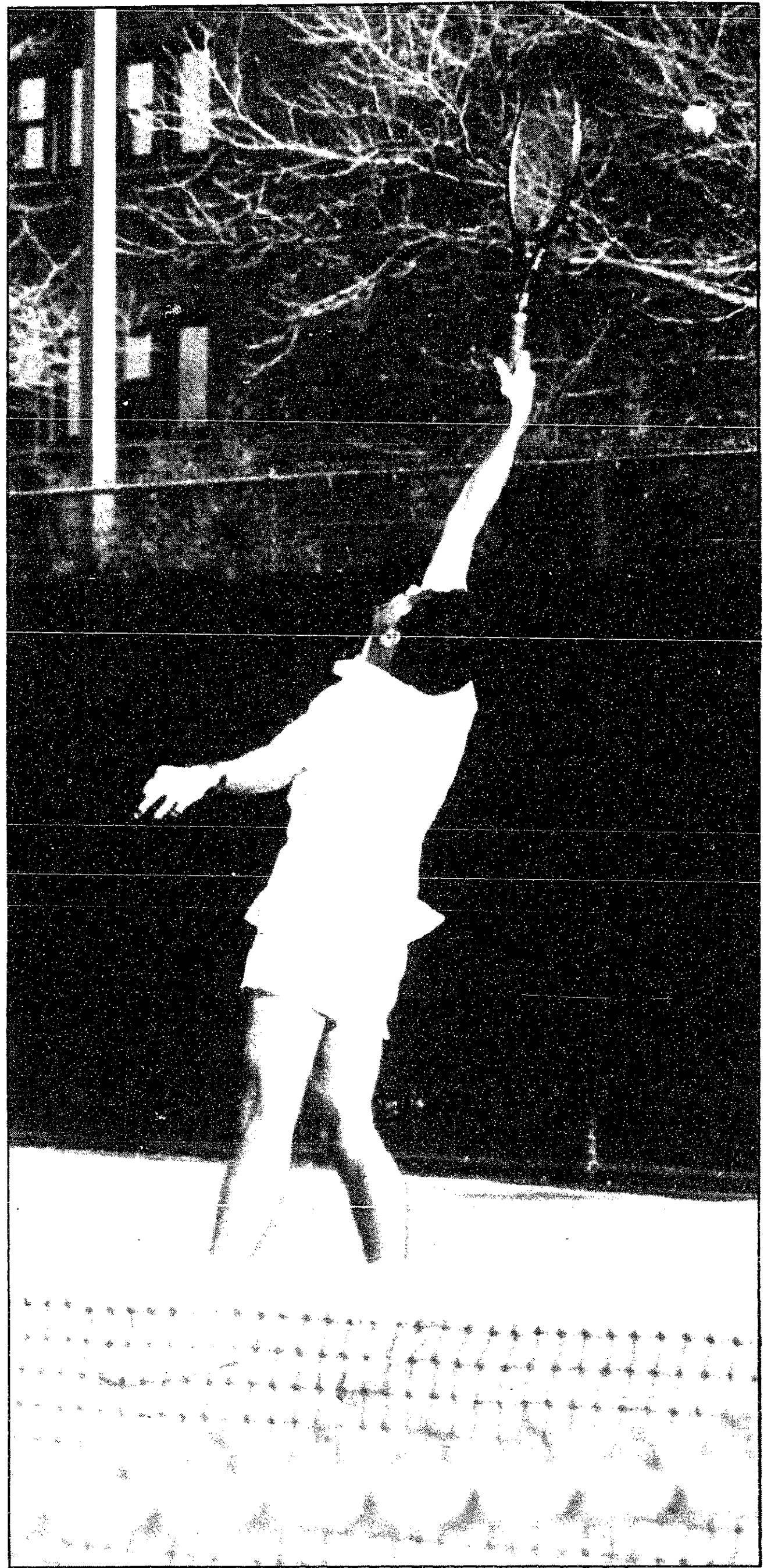
AL West

1. Chicago White Sox. A powerful lineup and quality pitching should bring the flag to the Second City. Look for powerhouse Frank "English Muffins" Thomas to have an all-star year slugging tape measure dingers, with Tim "Purple" Lincecum setting the table and Lance "Baines" Johnson and Red Sox refugee Ellis Burks rounding out a solid outfield in the pastures of the New Komisky. Also, any pitching staff with Jack "Planet of the Apes" McDowell and Dave Stieb can carry a team if necessary for the whole season. Nevertheless, the Pale Hose will need a good year from Ozzie Guillen, especially on defense, to ensure the crown in a difficult division.

2. Kansas City Royals. Pitching should be good enough to keep KC in the race all season, but down the stretch, it will be the bats that come up short. The acquisition of David "Pine" Cone shores up a pitching staff that includes Mark Gubicza (coming off a shoulder injury last season) and reliever Jeff Montgomery. The defense up the middle is the best in the league with Chico Lind and Greg Gagne, and the outfield has speed in Brian McRae and Felix Jose. For power, however, the Royalty may want to consider following the Detroit Lions' example by extending an offer sheet to Derek Thomas.

3. Oakland A's. A good team overall, whose pitching and power

Let's Argue, Page 14



YUEH Z. LEE—THE TECH

Manish Bhatia '93 just misses an overhead during his singles match. The varsity tennis team played a tough match against Tufts on Wednesday.

Track Wins Season's First Meet

By Bo Light
STAFF REPORTER

The men's track team had a successful start to its spring season Saturday, winning its first meet. The Engineers dominated the running events and were strong in the field events as well, taking eight first places and ten second places in seventeen events as well as winning both relays.

The final score was MIT 99, Bates College 53, and Bowdoin College 50. The real battle of this meet was for second place, which Bates got when it placed ahead of Bowdoin in the final event, the

1,600-meter relay.

MIT started the day in good fashion, with Eliot Hui '94 and Hung Hoang '96 placing third and fourth, respectively, in the long jump, and the team of Jay Chiang '94, Malik King '95, Marcelo Targino '96, and Matt Sandholm '96 winning the 400-meter relay. John Wallberg '96 started his three-event day by placing third in the hammer throw, and later took third in the discus and won the shotput. The Engineers then took a convincing lead over the competition as David Moyle '94, Rob Casadonte '94, and Tarik Saleh '95 finished

first, third, and fourth against a badly outmanned field in the steeplechase, and Matt Robinson '94 and Bill Arnold '94 took first and second in the pole vault. Robinson continued winning by outrunning teammate Colin Page '95 for first in the high hurdles.

MIT's streak of one-two finishes continued. Mike Piepergerdes '96 and Ethan Crain '95 ran away from a Bowdoin runner in the final stretch of the 1,500-meter run, and Andrew Ugarov '95 and James Kirtley '94 took the high jump. Piepergerdes

Track, Page 15

UPCOMING HOME EVENTS

Friday, April 9
Baseball vs. Wentworth Institute of Technology, 3 p.m.

Saturday, April 10
Golf vs. Nichols College, 1:15 p.m.
Women's Lacrosse vs. Smith College, 1 p.m.
Softball vs. Brandeis University, 1 p.m. (doubleheader)
Women's Track vs. Worcester Polytechnic Institute, 1 p.m.

Sunday, April 11
Varsity Sailing, Laser Class Invitational, 9:30 a.m.

Monday, April 12
Golf vs. UMass-Lowell, 1:15 p.m.
Women's Lacrosse vs. Bridgewater State College, 5 p.m.