Fiber Optic Network Development Begins

By Michael A. Saginew

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 through cable, and fiber optic network," said Robert G. Gallager, SCD '71, a professor of electrical engineering and computer science here who is researching the architectural aspects of the network.

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

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 loosely coupled system 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. "The signals are transmitted from the sender 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 for frequency division," said 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 expertise in optical and communications technology, yet each party has its own specialty, according to Kennedy. Lincoln Laboratories brings to the project its expertise in optical devices technology, DEC is very experienced with computer networks, Lincoln Laboratory with it and would like to see it be the next Athena printer," wrote Max E. Metcalfe '93.

The age of the current printers was less enthusiastic. Marc W. Bocciard '93 wrote, "It doesn't seem to be much of an improvement over the existing printers."

Project leader Darrin E. Robinson expects to make a recommendation by early July to replace 29 printers in public clusters by June 1. We didn't want to be moving printers while people are printing from them," said Robinson.

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

The age of the current printers was less enthusiastic. Marc W. Bocciard '93 wrote, "It doesn't seem to be much of an improvement over the existing printers."

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

Use of the Hewlett-Packard Laser Jet IVi and a DEC LNS17 to test them and offer feedback to an Information Systems team that has supervised the printers, places that send and receive laser-print data, in a form of light. In this node, a typical printer is an entire center like Lincoln Laboratories. When finished, the test-bed will only have to 10 to 15 nodes in a few weeks to test the consortium architecture for the national information highway. Therefore, a key research issue in the test-bed is its architecture.

Bioengineering Program Starts

Program to Encourage Collaboration with Other Area Groups

By Kevin S. Subramanya

Dean of Engineering Joel Moses Papp announced the formation of the Program in Biomedical Engineering which will coordinate research activities 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 Teal 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 area medical community and the extensive research resources of this area, this project is in a unique position to provide leadership at the national level on a trend that is already under way in the health-care needs of our society, labs, are usable life and were a great investment because of this fact."

Robinson said 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's media's attention first focused on demonstrations in Beijing.

Tong, Page 7

Chinese Dissident Describes Change

By Pipal Bhushan

Chinese dissident leader Shen Tong spoke about his 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 science at Harvard University, Tong chairs the board of the Chinese Students Committee in China, which is an illegal organization in China.

Tong was one of the first pro-democracy students to come to China after the 1989 Tiananmen Square massacre. After fleeing China four years ago, he came to MIT. "I finished my undergraduate studies at a Tuesday evening Lecture Series Tong spoke about the evolving revolution first became focused on demonstrations in Beijing.

Tong, Page 7

Chinese pro-democracy leader Shen Tong speaks in 26-100.
**U.N. Court Orders Yugoslavia to Prevent Genocide in Bosnia**

**By Tamar Jacobson**

**WASHINGTON POST**

The World Court ruled that Yugoslavia should prevent genocide in its territory, a move that could lead to the court's refusal to drop its request for war crimes trials in the former Yugoslavia. The court also ordered that the United Nations should help in gathering evidence of war crimes. The decision was hailed by human rights groups as a significant step forward, but it was criticized by some as too vague. The court's decision is expected to be appealed in the International Court of Justice.

---

**New Premier Warns French Of Sacrifices to End Crisis**

**By John Lancaster and Amy Devroy**

**WASHINGTON POST**

The new French prime minister, Jean-Paul Chiffard, warned of sacrifices to end the crisis in his country. He said that the government would have to make hard choices, including a reduction in public spending. The government is under pressure to reduce the budget deficit and improve the economy. The prime minister said that the country would have to work together to overcome the crisis.

---

**Clint's Visits in Portugal For Boost Standing with Military**

**By Mark Zborowski**

**SI**

President Clinton's visits to Portugal are expected to boost his standing with the military. The president is expected to use his trip to meet with military leaders and discuss issues such as the Gulf War and the war in Bosnia. The president is also expected to discuss the situation in the Middle East and the war in Iraq. The trip is expected to be a significant boost to Clinton's popularity among military leaders.

---

**Weather**

**Daily Weather Forecast**

Colder air will move in today, bringing a high of only 42°F (6°C). The wind will be light, from the northwest. The chance of precipitation is low, but there is a slight chance of a shower in the afternoon. The temperature will drop to a low of 30°F (-1°C) at night. The visibility will be good, with no significant haze expected.

---

**Japanese Ready to Commit $2 Billion Aid to Russia**

**LOS ANGELES TIMES**

Japan is expected to commit $2 billion in aid to Russia. The Japanese government is considering the aid package to help Russia recover from the economic crisis. The aid would be used to support the Russian government and to help it carry out its economic reforms. The aid would also help Russia to purchase essential goods such as food and medicine. The aid would be provided in the form of loans and grants.

---

**Warning French of Sacrifices to End Crisis**

**PHILIPPE JACOBSON, CAMBODIA**

The French government is warning the new prime minister of potential sacrifices that will be required to end the crisis in his country. The prime minister, Jean-Paul Chiffard, has been named to lead a government that will have to make difficult choices. The prime minister has promised to work with the opposition to find a solution to the crisis. The crisis is expected to be a significant test for the new government.

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**Clint's Visits in Portugal For Boost Standing with Military**

**MARK R. ZBOROWSKI, SI**

President Clinton is expected to boost his standing with the military during his visit to Portugal. The visit is expected to be a significant boost to Clinton's popularity among military leaders. The president is expected to meet with military leaders and discuss issues such as the Gulf War and the war in Bosnia. The visit is expected to be a significant test for Clinton's policies in foreign affairs.

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**Weather**

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Clinton Sends Congress Detailed $1.5 Trillion Budget

By Ann Devroy and Steven Mufson

WASHINGTON

President Clinton Thursday sent Congress the detailed budget plan of a $1.52 trillion budget that is already being debated by the político of compromise.

As promised in Clinton's earlier budget, he said, the $1.147-page plan would place military spending while raising taxes on the rich and holding down costs. In those terms, it breaks the truce that he had broken, raising taxes on the top 1 percent of earners. In those terms, it breaks the truce that he had broken, raising taxes on the top 1 percent of earners.

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OUT FOR PROFIT
Parking Authority

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 "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 to environmental standards by using only 4,200 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 exists. I am impressed. Imposing time restrictions where there currently are none means that there will be five or ten cars a day pulling in and out whereas 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.

Mary V. Brown

Opinion Policy

Opinions, editorials, and feature articles are written by the editorial board, which consists of the chairman, editor in chief, managing editor, executive editor, and columnists. Letters marked as such and printed in a distinctive format, are written by individuals and are not necessarily representative 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 Rooms W20-483. Electronic submissions in plain text format may be mailed to letters@tech.mit.edu. All submissions are due by 4 p.m. two days before the date of publication.

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Cult Leader to Surrender to Federal Agents

Column by Matthew H. Hersch
EXECUTIVE EDITOR

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.

FBI Director Oswell 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 with 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 spokesman, 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 his 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 FBI's management of the Koresh crisis, 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, 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.

"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 expecting to surrender on Friday, requested FBI agents refrain from bothered 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.

April 9, 1993
THE TECH Page 5
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M.I.T. Student Members of the Harvard Cooperative Society.

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.

The Coop and its Board of Directors encourage all Student Members to vote in this election.
Tong Criticizes Media

MIT/Lincoln Connect to Net

Biomedical Program Starts

Tong, from Page I

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 China's state of affairs.

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 how the U.S. and China might agree on human rights.

Tong expressed hope for the future, saying "China is going to change — China is changing — and the change will come from within."

Tong also expressed concern that Clinton's campaign rhetoric would not transform into concrete policies.
**INDECENT PROPOSAL**

Directed by Adrian Lyne
Screenplay by Amy Holden Jones
Directed by Adrian Lyne.

**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 millions of dollars. Rather philanthropic of her, eh? But is it a true philanthropic gesture, David, finding Diana and Gage at a celebrity zoo endangered species auction, bids the million dollar 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

**DECISION TIME**

**COURSE 16 - AERO/ASTRO**

**WELCOMES**

**THE CLASS OF '96 & FRIENDS TO ITS:**

**OPEN HOUSE & PARTY**

**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.
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 realizing their love for each other at the pier that David promised 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 reform this greed into the more "P. C." '90s. Everything is very posh, like the leather

Don't panic! Art is in the eye (or the ear) of the beholder (be-hearer?)

Help is on the way!

The Council for the Arts Grants Program wants to assist members of the MIT community (students, staff, and faculty) in exploring the myriad worlds of art. Apply to the Grants Program of the Council for the Arts at MIT

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Jim's Journal

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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HOLY WEEK SERVICES

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April 9
3:00 pm

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April 10
Saturday 8:30 pm

Easter Sunday
April 11
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I have ONE thing to say . . .
you better work
go to the
Nuclear Engineering Open House
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12 noon - 4 p.m.

Demonstrations Models
STUDENTs PROFESSORS
ICE CREAM

Sponsored by the MIT Student Chapter of the American Nuclear Society and the MIT Department of Nuclear Engineering
Let's Argue, from Page 16
will keep them in position should
the top two fall. 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)
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
"Pedro" Rodriguez from the island
to become one of the best catchers
in the AL. The acquisitions of Chur-
kie "General" Leibrant and Tom
Henke should merely offset the loss
of Juan Guzman, and therefore not
improve a weak staff much. Antici-
pation 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
"Chad" 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
Dodos.
6. Minnesota Twins. Now that
Dave Winfield has a World Series
ring, he will not be exactly as pro-
ductive as last year, and the Twins
will suffer from his strike-
outs. Kirby "Union Gap" Puckett,
who is finally recognizing his
capability, will not contribute much,
either, in part because of his wise
decision not to join the Red Sox. Scott "Leif" Erickson leads an arduous pitch-
ing staff into battle in the dangerous
confines of the Homerdome. Final-
ly, 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
A's. Beyond the great pitching of
Mark Langston and Chuck Finney,
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 Coralville Athletic
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 Dino Ebelchielis,
Mones 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" Mar-
tin 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 Met-
ropolitans have a strong pitching staff,
when healthy, led by Brett "Light"
Saherhagen, Dwight Gooden "N
Plenty", and Sid Fernandez. Howev-
er, youngsters remain about Sid's
shoulder and the health of starter
John Franco in general. The lineup
could be potent with the return of
Vince 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 pan intended), the Phils
are dangerous, but when nursing an
injury, they are on par with the Sex.
The rotation is heavy, as their two
masn, 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-
ners, the Phils will have the last
laughs.
4. Houston Astros. The Astros
are dangerous, but will not suffer
the same injuries as they did last
year. The loss of Greg "I'm in the"
Gagne will hurt more than Tom Kelly
thinks. The only thing that could
cut into the Astros' season is a key
injury to José "Can You see"
Canseco or Rafael "Shaken, not stirred"
Palmeiro. In any case, the Astros
should be in the running until the
end.
5. New York Mets. Now that
Mike "I'm in the" Bocchiaro has
leaves for the NL West, the Mets
will have a chance to make a run
at the division. With currently unim-
pressive pitching and a weak lineup,
there won't be many fans at the Polo
Grounds to cheer for all winners.

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

AL MVP last year, Dennis "Two
Butters" Eckersly can't do the job
from the pen. A lineup including
Mark "McGwire and McGwire,
Dave "Hondo" Henderson, and
Ruben "Madre" Sierra should pro-
vide 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
"Pedro" Rodriguez from the island
to become one of the best catchers
in the AL. The acquisitions of Chur-
kie "General" Leibrant and Tom
Henke should merely offset the loss
of Juan Guzman, and therefore not
improve a week staff much. Antici-
pation 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
"Chad" 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
Dodos.
6. Minnesota Twins. Now that
Dave Winfield has a World Series
ring, he will not be exactly as pro-
ductive as last year, and the Twins
will suffer from his strike-
outs. Kirby "Union Gap" Puckett,
who is finally recognizing his
capability, will not contribute much,
either, in part because of his wise
decision not to join the Red Sox. Scott "Leif" Erickson leads an arduous pitch-
ing staff into battle in the dangerous
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Building, Harvard Square.
Expansion Marlins Will Edge out Cubbies and Pirates

Let's Argue More, from Page 14

The Phillies will provide competitiveness and lust for the locals, which will be a pleasant surprise.

4. St. Louis Cardinals. The pitching is respectable, with Bob Thaky 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 Van Norman, and Walt "Minnie" Wells, 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 Drulek 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 Shawon Dunston on the DL and Ryne Sandberg's broken hand still a problem, the Cubs have no "O" to speak of inning runs such as Willie Wilson and Candy Maldenado won't do). The loss of Greg Maddux is a little, so let's hope the beer is flowing nice and cold for the Bleacher Bums.

Beechwood Play Of The Week

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

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

2. To Washington's Gino Torres '93, who stepped out of bounds for being the only one who didn't score a pointer, Chris Webber's rebound hoop would 'have tied the game, the Wolverines would not have fumbled, and awards I and IV would not have occurred.

3. To referee Ed "Officer" Rightover 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.

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

You heard it here first

China will be awarded the 2000 Olympic Games. The community 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...
By Bo Light

Column by Mike Duffy and Andrew Heitner

Before we jump in to the conclusion of our last preview, 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. fluentially 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. The likes of Wood, Jordan, Worthy, and Daugherty playing for him. The likes of Wood, Jordan, Worthy, and Daugherty playing for him.

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 free throw 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 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 salesmen 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" Raines 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 their lineup, with no stretch, will be the bats that come up short. The acquisition of "Prince" Cave shores up a pitching staff that includes Mark Gubicza (coming off a shoulder surgery), and reliever Jeff Montgomery. The defense up the middle is the key, with Lind and Greg Gagne, and the outfield has speed in Brian McRae and Felix Jones.

3. Oakland A's. A good team overall, whose pitching and power will bring the flag to the Second City.

**NL East**
1. Philadelphia Phillies. A pow-...