UA Proposes National Standard for Digital TV

By Karen Kaplan

In the year 2000, high definition television sets will be in millions of living rooms across America. In fact, HDTV will revolutionize modern television, just as the way color was introduced into the medium when it was first introduced in the 1950's.

So says Jae S. Lim '74, a professor of electrical engineering and computer science who works in digital signal processing, speech processing, and image processing. Lim heads the MIT Advanced Television Research Program, and his research group has developed an HDTV system based on digital technology, a group that was built by General Instrument in San Diego, is one of five models under official U.S. standard for HDTV.

HDTV has higher resolution, television screens can be bigger. The group's prototype, which was built by General Instrument in San Diego, is one of five models under consideration for official U.S. standard for HDTV, he said. HDTV will revolutionize modern television.

The MIT-GI system is currently being tested, along with the four other entries, at the Advanced Television Systems Committee which was formed under the aegis of the Federal Communications Commission. The group will recommend one of the models for official approval as the nationwide HDTV standard by the middle of next year.

"Each HDTV system has different special features, and MIT's is not the best in every aspect," Lim said modestly. "But I would like to think that MIT has the best record overall in engineering a system." HDTV system models are also being submitted by AT&T, Zenith, the Advanced Television Research Consortium, whose members include NBC, the European companies Philips and Thomson, and a Japanese firm. General Instrument also submitted a second entry.

Why HDTV?

High definition television has "very significant improvements relative to the National Television Systems Committee television service," which is the current standard for televisions, Lin said. These improvements include:

- Increased picture clarity. "The fine details are a lot better," said Lim. "It's an increase of about 400 percent with NTSC television, the screen is divided into a grid of 340 by 420 pixels, or picture elements. An HDTV screen's grid is 720 by 1280 pixels, producing a much higher resolution.
- Smoother motion. HDTV runs at 60 frames per second, twice the frame rate of NTSC, so figures move more smoothly on the screen.
- No "ghosting." Lin said HDTV eliminates the "ghost effect" and "snow in the backgound" that sometimes appears in NTSC television broadcasts. "With the new system, either you see it or you don't see it, and when you do it's spectaculalry clear," he said.
- Better aspect ratio. The width-to-height ratio on current televisions is 4 to 3, and the dimensions were set 40 years ago when motion picture screens were more square. The aspect ratio for HDTV sets is 16 to 9, and the wider screens allow for panoramic filming. Also, because HDTVs have higher resolutions, television screens can be bigger.

By Vini G. Ipe

ThreeFormer MIT Professors Die

By John C. Shehee

Three former MIT professors, each of whom made significant contributions to his field, died this past week.

Hurd C. Willett, professor of earth, atmospheric, and planetary sciences, died March 26. John C. Shehee, professor of chemistry, died Saturday; and Benjamin L. Averbach ScD '47, professor of material sciences and engineering, died Wednesday.

EAPS professor dies

A memorial service was held on March 30 in Littleman for Willett, who died at the age of 89 as a West Concord nursing home, according to Tech Talk. Willett, who taught meteorology, specialized in short-term climatic fluctuations, variable solar influences, long-range weather forecasting and pioneered efforts to develop five-day weather forecasting techniques.

Willett, who came to MIT in 1929, was instrumental in the development and adoption of the polar front theory of weather prediction by which is now the National Weather Service.

MIT Proposes National Standard for Digital TV

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A new nationwide poll shows that 66 percent of Americans are dissatisfied with all of the presidential candidates, particularly in Ohio, where a recent clash between a Democratic and a Republican candidate at a televised debate apparently damaged both campaigns. Governor Bill Clinton, the Democratic front-runner, has been voted as the candidate most likely to bring fairer skies and more seasonal weather to the mid-Atlantic coast.

By Marek Zebrowski

A veteran Democratic House member called for Secretary of State Colin L. Powell's resignation today, and he said that Speaker of the House Newt Gingrich should have stood up to the defense secretary and prevented him from making political decisions. Clinton's proclamations of support for Israel and calls to the Bush administration to release $10 billion in loan guarantees to the Israelis seemed to have mixed with the anger of those fighting in the south and over the border.

Appearing before the Jewish Community Relations Council, which Arkansas Gov. Bill Clinton was warmly greeted earlier this week, Brown said he wanted to see the Israeli ambassador to the United States removed. "We are absolutely in gridlock and it is time for serious public slap, by the House to bring pressure on members of the House to indicate the seriousness of the situation with Libya that we hope to see brought to the Congress," Brown said.

The announcement cleaned up one issue clouding the Washington-diplomacy logjam. The announcement cleared up one issue clouding the Washington-diplomacy logjam.

The Weather

Is This Spring?

By Marek Zebrowski

A wet spring is one of April's surprises for this weekend. A large ocean storm that will be positioned in the Gulf of St. Lawrence Friday night may actually present a late-season snow event in the northeast, The wet pattern will be caused by an upper clipper, forecast to pass just to our south last Saturday after causing more snow from the Great Lakes region all the way to the mid-Atlantic coast. For New England, a slow moderating trend will begin on Sunday with high pressure building in bringing fair skies and more seasonal spring weather, with temperatures reaching the 60s by Tuesday.

Friday afternoon. Partly cloudy with a slight chance of local sprinkles or drizzle. High around 48°F (9°C) with strong northwesterly winds 15-25 mph (24-40 kph). Chance of rain is now forecast to decrease to 10-20 percent. The dew point is now forecast to decrease to 48°F (9°C) with little cool and clear. Low around 32°F (0°C).

Saturday Sunrise - A chance of showers or sprinkles, partly cloudy, high pressure building in bringing fair skies and more seasonal summer weather, with temperatures reaching the 60s by Tuesday.

A Writers' Tour of America - April 3, 1992

Page 2 THE TECH

April 3, 1992
John Gotti, the nation's most notorious mobster since Al Capone, was found guilty Thursday of murder and racketeering, ending a six-year campaign by federal prosecutors to convict the man who had eluded them in three previous trials.

The jurors, their names kept secret even from the judge, deliberated just 11 hours on evidence presented over seven weeks.

Gotti was pronounced guilty on all 13 counts, and sentenced to be set for June 23. He faces life in prison.

A vigorous appeal. "I'm not saying it's achieved," said James F.mount a vigorous appeal. "I'm not saying it's achieved," said James F. "I'll be okay." "I'll be okay." 

The defense called only one, an attorney who testified that he advised Gotti that not filing tax returns was legal. U.S. District Judge L. Leo Glasser disqualified five other witnesses willing to testify for Gotti.

"What happened to our defense?" Gotti joked that day with the same devil-may-care nonchalance that he maintained throughout the trial. "I shoulda put on a little song-and-dance."

Gotti's prosecutors presented a colossal amount of evidence, including six hours of FBI tapes surreptitiously recorded in Gotti's hideaways. They called 38 witnesses, including Gotti's No. 2 man, Salvatore "Sammy Bull" Gambino, one of the highest-ranking turncoats in organized crime.

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The inability to present more witnesses is likely to become part of the basis for an appeal, Mitchell said. "It was impossible to get evidence before the jury that would show the other side of these people."

Prosecutors said Gotti was responsible for masterminding the murder of Paul Castellano, head of the Gambino organized-crime family, then taking his place.

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Pro-Choice Group Only Advocates Rights

The Tech received a copy of this letter addressed to John Redkin.

Our name: "MIT Students for Choice and Reproductive Freedom." We believe that a woman should have a choice in aspects of reproductive freedom, including abortion. We do "not condone" abortion; calling an "unfit student for abortion" is as offensive as one of many options if she becomes pregnant. Please consider a few facts concerning public support for abortion in the United States. Most Americans say that a woman should have the right to choose an abortion — in the first three months of her pregnancy; when her pregnancy threatens her life, when her pregnancy is the result of rape or incest, and for the prevention of severe disabilities.

Bush and Reagan are anti, indeed, strongly anti-choice. This is in fact explained our observation ["Choice Group's Name in Midland," March 20] that the present extremely conservative U.S. Supreme Court is also picked by anti- choice justices. The two statements are not isolated; when Justice Rehnquist's seat is filled, a pro-choice president is influential in determining who the new justices will be. Far from showing that choice is a minority opinion, the new Supreme Court merely confirms the effects of the Reagan/Bush anti-abortion "limousine" test for judicial appointments.

Consider also that five of the original democratic candidates were pro-choice; President Bush is not one of them. Does the fact that we have not had a pro-choice president mean that the country does not want reproductive freedom? We believe we have never had a president who prefers only, and only 5% of the Senate is; of the 95% that we have, most have seen sex as something that can be tolerated lightly, if at all. (If the Senate is a "limousine" test for judicial appointments, can we assume that all the people in this country are in this respect?)

Your observation that this country is "short on female politicians" is an analysis of the conflict with abortion and reproductive rights. It is precisely because of the huge problem of welfare and poor women not being able to support another child, in lone status in their current circumstances, that we need to allow them to receive the right to an accessible abortion, if they so choose. Because we do not have our fingers in a way to allow all women to care for and support as many children as they want, we must allow them the right to make a decision not to have another child if doing so would mean their lives a little more tolerable.

Currently, the "gap" policies prohibit facilities which receive Title X funds from even receiving an abortion as an option, even if the patient requests the information or if withholding it would endanger her health. There are many thousands of poor women who suffer.

You complain that we want funding even though churches don't get any. There is such a thing as separation as church and state in this country. More importantly, "we" don't want more power for the government; we want the government to make abortion safe, legal, and accessible for any woman who needs one, and to allow them the right to have abortions if one so desires. The "gap" policies are precisely the kind of policies that we do not have. Let us see the difference between a woman choosing to have an abortion and a woman choosing to become a prostitute, if you cannot see the difference between abortion and drug use; if you cannot see the difference between "advocating abortion" and advocating that one should have the legal right to choose to have an abortion if one so desires, then I am sorry that you cannot see what is so very clear.

Emily T. Yeh '94 MIT Students for Choice and Reproductive Freedom

Club Does Not Favor Abortion, Only Choice

We are writing in response to John Redkin's "Abortion Group's Name in Midland," March 20] and we suspect that Redkin has confused the pro-abortion and pro-choice standpoints. The pro-choice movement was started as an offshoot of the right-to-live Pro-Life Death. After the multiple repeated suicide attempts, the remaining Pro-Deathers decided to promote the terminology of all fetuses. In contrast, pro-choice advocates support the right of women to choose to have abortions if they have chosen. Therefore, the pro-choice movement cannot represent the pro-life majority, as Rodkin implies. Since their limited food supply can only support a small number of people, we are forced to conclude that pro-life are actually in the minority.

How, then, can Redkin claim that pro- lifers are in the majority? He argues that since we have never had an ardent pro-choice presi dent, pro-choice advocates must be in the minority. As members of a desire to attract attention, it is probably for sale that we elect our president through social marketing. There is no one right to govern our elections, in fact, American votes are for the presidential candidates who have managed to find the most incompetent running mate: The pro-choice movement cannot represent the pro-life majority, as Redkin implies. Since their limited food supply can only support a small number of people, we are forced to conclude that pro-life are actually in the minority.

Despite his rudimentary understanding of the election process, Rodkin shows true insight into our political system. Boldly disregarding personal rights and liberties, he states that "As members of a democracy, we are supposed to allow ourselves to be governed by the will of the majority." He appeals of his lack of self- will, but fear that others fall short of his stan dards. Unfortunately, many Americans feel that they have the right to govern their own actions provided that they remain within the bounds of order and structure. If Mr. Rodkin realizes that the Bill of Rights is to protect their personal liberty. Until such a time as these people are eliminated, we cannot have a principle of democracy. Only then can logic and facts be belligerently ignored in order to deprive women of their rights.

Cynthia J. Holbrook '92 Rachel L. Okhdri '91

Abortion Opponents Forget Women's Rights

I would like to thank John Redkin for his letter "Abortion Group's Name in Midland," March 20] and I would like to thank him for his comment. If I do not believe that Mr. Redkin is an only way sing四川 Ut-pro-choice group as being different from other pro-choice groups in this country, I write my response to his letter not just as a member of the pro-choice, but as someone who is pro-choice. Rodkin's article goes beyond the abortion debate. Mr. Rodkin argues that our "country has never elected a pro-choice president" that the pro-choice movement cannot represent the American majority. I agree that many of us believe that the pro-choice movement is, in his opinion, a "radical" group and that he would like to see any money from the government. This is an incredibly dangerous political philosophy.

That the pro-choice movement has real support with minority rights. The fact that minority groups have rights is the single most impor tant part of democracy in America. Thinking that the President represents every minority in America is simply wrong. Many white males have been elected president, and rich white males have benefited the most from the programs of the White House, especially under the Reagan and Bush administrations. I am confused when Mr. Rodkin realizes that rich white males are not a majority in this country.

The abortion issue is part of the larger issue of women's rights. At MIT the rate of men to women does not reflect the normal ratio in the country. If Mr. Rodkin refers to his own political philosophy, and "allow[es] himself to be governed by the will of the majority," I urge him to remember the numbers of the 1990 census — in the United States, women are a majority.

Michael J. Laver '93 MIT Students for Choice and Reproductive Freedom
Save Money on the IRS* at The Coop!

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*Extra Strength*

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Send your resume to: Mark of the Unicorn, Inc., 222 Third Street, Cambridge, MA 02142
UA Ballots Recovered
The Tech, Page 7

According to Kirby, the UA Council will decide at its next meeting whether to press charges against any or all of the students under investigation. Any hearings resulting from such charges would be held under the auspices of the Dean’s Office, rather than the Committee on Discipline, because “the COD is handling academic issues these days,” Kirby said.

Kessler was Chialcy would speculate on what sanctions the UAC would seek to impose. “At the highest level, they can recommend suspension or expulsion,” Kirby said. He added, however, that he doubts the council will take this route. “At the worst, they could put someone on probation, something on your transcript, make you work, make you write an apology, [or] make you serve on a UA committee.”

The council, according to Kirby, might also ask the students for reimbursement of the $409 spent on preparation for a special election in Lobby 7 on March 13. “If they just take whatever names they’ve heard around and decide to fine everyone across the board, I’m not sure that’s particularly fair,” Lippert said.

“The last thing I can understand them having to recoup whatever losses they’ve had,” he added.

Funding Plan Defeated

UA Council

Dr. Frank Griffin
Director of the Medical Scientific Training Program
at the University of Alabama at Birmingham
will be available to discuss Alabama’s combined degree program at
Bldg. 12-187
1:00 p.m. to 6:00 p.m.
Monday, April 6, 1992

Students wishing more information
are welcome to drop by without a specific appointment.

Further information and a booklet describing the program
may be obtained at Dr. Griffin’s office, Room 12-170 or
253-4737

Last year your contributions helped 146,000 families
find child care. This year your contributions will be needed more than ever.

Call SCC: 3-3916 Leave name and number

Are you
a POET?
a performance artist?

Are you waiting for acceptance?

YOUR WAIT IS OVER
Be in MIT’s first ever open mike nite
Poetry and Performance Art
April 16

THE TECH Page 7

THE I. AUSTIN KELLY III PRIZES
1991-92

for Excellence in Humanistic Scholarship by M.I.T. Undergraduates

Two prizes of $500 each for scholarly or critical essays judged to be outstanding in any of the following fields or in some interdisciplinary combination of them:

HISTORY
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ARCHAEOLOGY
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LITERARY STUDIES

The deadline for Submission is April 23, 1992 at 5 P.M.
Rules and Guidelines available from the
Dean’s Office, School of Humanities and Social Sciences
E51-232
THE BIGGEST COMPACT DISC
SALE IN OUR HISTORY!

REGULAR PRICE
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$2.00 OFF

$14.99
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$9.99
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$1.00 OFF

SALE ENDS SUNDAY, APRIL 5, 1992!
Two new Bruce Springsteen albums: "Lucky Town" and "Human Touch" available today for only $10.77 each!
No coupons or double discounts - sale items excluded.

Volunteer Opportunities

Good Food Festival
The Cambridge Salvation Army Food Pantry is sponsoring a food festival to introduce area residents to inexpensive but nutritious eating. Chefs from local restaurants will prepare free food, while jazz musicians perform. Volunteers are needed Saturday, April 11 between 12 and 2 p.m. to bring equipment to the site, set up, serve food, assist the demonstrators, watch children, and clean up. If interested, call Mark Pomerantz at 349-6340.

Project Extra
The Madison Park High School needs volunteers to tutor students Tuesday, Wednesday and Thursday from 1:30-3:30 in Math, English, Reading and Test Taking. Call Barbara Ogarra at 442-5200 ext 548.

Hunger Cleanup
The eighth annual cleanup organized by the National Student Campaign Against Hunger and Homelessness is scheduled for Saturday, April 11. The Hunger Cleanup is a national work-a-thon to improve the community and raise funds for the impoverished. Ask friends to sponsor your volunteer efforts at a community service project, such as painting a shelter. Contact Jennifer Cohen at 292-4823.

Friends of the Elderly
Little Brothers Friends of the Elderly seeks volunteers to help out during Passover and Easter. Volunteers are needed Sunday, April 19 to bring dinner (prepared by the organization) and offer company to elderly persons. Share the joy of the holidays with someone who would otherwise spend it alone. Contact Tim Stanley at 536-2404.

NEWBURY COMICS
MIT Student Center 225-2872

By Ben Reis

On their first Th anniversary, it's time to talk.

Nerds

about our future.
love is for

and carbon
dating is for
archaeologists.

Propose an
asymptotic relationship.

Yeah, we are
ever closer to the
curves, but never
really touch.

Sigh...

PSC MASSACHUSETTS INSTITUTE OF TECHNOLOGY
Public Service Center
### MIT Developing HDTV

HDTV, from Page 1

- Higher audio quality. HDTV is equipped with four channels of CD-quality audio, unlike current sets.
- Watching a program on high definition television will be "almost as though you're going to a movie," Lim said.
- Although most television watchers probably do not find very much lacking in the current NTSC sets, after seeing an HDTV demonstration, viewers will certainly appreciate the higher quality, Lim said. "Once you see it, you notice it. It's like the car — before there were cars, it didn't bother you that you didn't have one, but once you have a car, you demand everything." he explained.

### Digital vs. analog

The style of television transmission standard developed at MIT is different from Japanese HDTV systems in one important respect — the Japanese system is based on analog technology while MIT's is digital. By incorporating digital technology, the U.S. has regained the lead in this futuristic field.

"This is part of a trend," Lim said. "Nothing is going digital. Computers are digital. Clocks are digital. Television is just around the corner. Digital telephone services are coming up."

"A digital system eradicates the noise, in a sense," because digital signals are only zero or one, without a range of values in between, Lim explained. By contrast, an analog signal can be interpreted as having a fractional value. Because this value can range continuously between zero and one, much more noise appears in the picture.

"A digital system gives you either a perfect picture or none at all," Lim explained. "People have designed digital systems so that most of the time they get it right, and even when they don't, they have a nice way of concealing it."

The real advantage of a digital high definition television system is that it can be integrated with other technologies, like personal computers. This is tougher to do with analog HDTV, Lim said. For this reason, the Japanese analog HDTV entry is generally considered out of the running for adoption as the U.S. standard.

### Three Former Die

**Deaths, from Page 1**

"Meteorologists have become convinced that climatic conditions on earth follow a cyclical pattern which will become clearer as our statistical records extend over longer and longer periods," he once said. Willitt also suggested that cyclic changes in the sun might also influence the earth's climate. Willitt did extensive surveys of weather patterns going back to the earliest records.

Chemist synthesized penicillin

Sheehan, who taught organic chemistry, was well known for his research on the chemical synthesis of penicillin, research which led to the development of many tailor-made forms of the drug. The production of synthetic penicillin in the laboratory solved one of the major problems of modern chemistry.

The natural mold process used to grow the lifesaving drug proved very time-consuming when it was desperately needed in World War II. Armies of scientists working through the war were unable to synthesize penicillin, leading some chemists to conclude that it could not be done.

Sheehan began working on the synthesis of penicillin at MIT in 1946 and achieved total synthesis nine years later, Tech Talk reported. He also produced an intermediate compound in the form of a basic penicillin nucleus. By adding various chemical to this compound, he was able to make new, specialized penicillins for particular uses.

Sheehan also "cracked the synthesis of amine." His and...
MAMBO!!
The MIT Office of the Arts presents two evenings with
Israel "Cachao" Lopez
Godfather of Afro-Cuban bass!
Originator of the mambo!
ON CAMPUS LECTURE/DEMO
April 15 -- 5:30-7:30pm, Kresge Auditorium.
"Descargas" (Cuban jam session), a lecture-demonstration
with Mr. Lopez, accompanied by 2 percussionists
and the MIT Festival Jazz Ensemble

FREE STUDENT EXCURSION
April 16 -- Performance at IBA-Ante y Cultura Cafe Teatro Series
at the Jorge Hernandez Cultural Center
Reservations may be made IN PERSON ONLY
at the Office of the Arts, E15-205
One ticket per valid MIT student ID
$5 deposit required (to be returned after the trip)
Round trip transportation provided
for 8:30pm show
For information call: 253-4003

The MIT Office of the Arts Announces:
The List Foundation Fellowship Program
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To Support Work in the Visual, Performing or Literary Arts
* Awards up to $5,000
* Applicants must fulfill the following eligibility requirements:
  * currently enrolled, full-time undergraduate or graduate student
  * African-American, Asian-American, Hispanic-American, Native American or Aleutian Islander
  * US Citizen and permanent resident
Deadline for Applications: May 4, 1992
For more information contact Maureen Costello
Director of Special Programs, MIT Office of the Arts:
253-4004 Telephone
258-8631 FAX
Guidelines and applications will be available at the following locations:
MIT Office of the Arts (E15-205)
Office of the Associate Dean of the Graduate School (3-160)
Student Financial Aid Office (5-119)
Office of the Assistant Dean for Student Affairs (5-106)
Office of Minority Education (7-143)

ARTS FUNDING
The Grants Program of the Council for the Arts
at MIT announces its final deadline for the 1991-92 year
for arts project funding:
April 8, 1992
The Grants Program of the Council for the Arts has provided support
for over 600 arts projects since 1974.
All MIT students, student groups, staff and faculty are eligible to apply.
Guidelines and Applications are available at the
Office of the Arts (E15-205, Wiesner Building).
Call Susan Cohen at 253-2372 for more information.

Photo Contest!
An opportunity to photograph selected artworks from MIT's permanent collection!
Sponsored by the Office of the Arts and List Visual Arts Center!
What's in it for you? Money and fame!
Open to all MIT students!
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and the List Center (E15-109, and Gallery desk)!
For more information call Mary Haller at 253-4006,
or Ron Flatt at 253-4400!
The Arts

Spring Film Reviews

White Men Can't Jump is funny both on and off the court

WHITE MEN CAN'T JUMP
Written and directed by Ron Shelton. Starring Wesley Snipes and Woody Harrelson. At Loews Chelsea.

By Robert Cavitch

White men can't jump. Nor can they hear Jimi Hendrix, or Al Green, or George Deane (Wesley Snipes) tells Billy Hoyle (Woody Harrelson) in this often fun and funny film that concerns a little bit more than basketball.

If you have sensitive ears or a soft spot for fairy tales, don't look for sympathy in this film. The setting is the streets and playground courts where fast-talking hustlers spout reams of obscenities and jokes about each other's mothers that one suspects are only in part listened to get their opponents off their guards. But these scenes are terrific — whatever the author's aim of finding is, if you do, you'll miss a punch line. The action is fast, and "slamming" is part of the game more ways than one. As Snipes' character puts it, "It's a game. Who makes it look bad?"

But White Men Can't Jump is more than mere fun. For Billy and Sidney, basketball is the only game being played, and the stakes are too high for comfort.

Billy is the white man — someone who tucks his remarkable basketball skills, under his backcaps and baggy pants and waders quieted by the broom court where Sidney is playing. In short order, this "chump" is called upon to show what he can do, and he succeeds in making Sidney for a time that makes but a small dent in Billy's $5,000 debt to the Stucci brothers, whom he hopes he can make up to him comes up with the balance.

Sidney has little in common with Billy other than tall stats for basketball and hustling. He is a street kid, a product of the frisbee, a "junk-Y" type of guy, not the smooth蓝天 wants to show off make a political statement. Sidney feels that one good chance costs another, and he throws his second game, leaving Billy flat broke and揣mumbled that he needs his girlfriend Gloria (Rose Perez) and the stakes are too high for comfort.

There are no true good guys in this film, just a pair of likeable cousins who do what it takes to get by. When Sidney's wife Rhonda (Tyra

By Ernest Hemingway

Sea of Love

It was the coldest of winter days, the type of day that forces you to remember that outside it is not the dangerous summer, but winter with all its perils and miseries. I felt very tired and I knew the right would come soon and I tried to think of other things. I thought of the big pictures, of life and people. I knew I could not write Sea of Love across the street at the local video store. Sea of Love is the story of a divorced New York homicide detective. In it, she summarizes her life and her semi-autobiography. She is a writer, and the movie interchanges freely Shao-Hua as well as symbolic figures. She is a peaceful life after the war, the peasants soon broken clay tiger is the anger that many felt happy sea they made love.

Jade Orchid

The broken clay tiger is the anger that many felt. Helen and Frank become lovers. She is kind and very beautiful. But she can be so cruel. When this film was released in Taiwan, it received much criticism, especially from the die-hard KMTs, for its political implications. The movie then shows Jade having a nightmare about a flood of net water, but blood.

Further political implications are also made through symbolic comparison. Early in the movie, there is a scene where the Japanese set up roadblocks and search inspect for the students, dripping onto the steps that were perfect combination of rhetorical irony and meticulous, light-hearted didacticism.

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Dust, From Page 11

Only to find a corrupt government. The second broken clay tiger is the anger that many felt after the end of World War II. Seeking a peaceful life after the war, the peasants soon were caught in a civil war between the KMT and communists.

Political statements are made through Shao-Hua as well as symbolic figures. She is a writer, and the movie interchanges freely what the Chinese communists risked their lives in order to accomplish their missions against the KMT. The scene is reminiscent of a similar scene from The Godfather Part II in which Michael Corleone says, “The rebels are going to win against the Chinese government because they are willing to risk their lives.” The communists eventually overthrow the KMT.

The emergence of communism is also illustrated by the color red. In the aftermath of a student massacre ordered by the KMT, a custodian attempts to wash the blood off the steps. The moment he finishes, rain falls and the blood stains are washed off the banner left by the students, dripping onto the steps that were just cleaned. The movie then shows Jade having a nightmare about a flood of net water, but blood.

Dust From Page 11

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Janowski shows his skill and charm while leading BSO

BOSTON SYMPHONY ORCHESTRA
Mark Janowski, Guest Conductor.

By Allison M. Marino

Mark Janowski, a regular conductor at the Symphony Hall since 1989, proved in his return to the BSO with style and finesse. His fine control of the orchestra was readily apparent, as was his comfortable approach; no musical game faced Janowski as he convincingly directed Classical, Romantic, and Modern works.

Composed in 1989 by Olivier Messiaen in honor of the 200th anniversary of Mozart's death in 1791, the American premiere of Un Sourire opened the BSO's March 21 performance. Despite Janowski's conducting charm, the lack of substantial thematic content in this sheet work could not be masked. Un Sourire has a lucid reminiscence of a side of Mozart's life in its uncertain, loosely quality, but was not remotely reminiscent of Mozart's vibrancy and exceedingly clever compositional style. The audience applauded only politely.

In contrast, the Beethoven Piano Concerto had a definite character - colorful and intensely persuasive. Soloist Zoltan Kocsis and the orchestra were thoroughly integrated - the piano was primarily treated as an extension of the orchestra, not a melodic vehicle. Timpani, side drums, bass drum, and cymbals crowned the piano for center stage. The tension and energy of this rhythmic February was in the air as every raised drumstick portended the impending percussive expression, adding an enjoyable visual aspect to the drooping vocal sensations. Rhythmic precision and crispness reigned throughout the concerto, even in the emotional piano sections of the adagio.

In the final pieces of the evening, Janowski and the BSO distinguished their performance of Beethoven's Fifth Symphony with intense- ly sensitive interpretation of the other passages, notably the whole solo of the first movement and almost all of the adagio second movement. Delicate, breathtaking, and emotionally rich, the transition from the first to the final movements was not only the ultimate turning point in the symphony's development, but also the highlight of the concert. The performance accentuated the righteous- ness in the carved woodwork high above the orchestra bearing Beethoven's name.

Soloist and concertmaster Malcolm Lowe set the compositional atmosphere of the BSO's March 28 performance in Sporta's Piano Concerto No. 8. An early 1800's, early Romantic, wrote the piece for the opera-minded Italian audiences of the early 1800's, clearly mimicking operatic form with recitative and aria-like sections. Unlike the Bartok Violin Concerto No. 1, the distinction between orchestral and solo sections was clear. Additionally, the bulk of the piece's emotional content resided in the violin, while the orchestra maintained a more Classical character. Lowe crowned his instrument through virtuosic passages, appearing cavalier, happy, and not the least. With Lowe and Janowski both on stage, Symphony Hall seemed more like a family gathering than an auditorium full of strangers. Richard Strauss's Metamorphose followed the Sporta concerto, concluding the first half of the March 28 program in a melancholy mood.

Joseph Haydn's Symphony No. 99 appropriately ended Janowski's guest appearance. The symphony was marked by the full excite- ness and character of Haydn, as well as by Haydn's appealing use of rhythmic motif. Janowski truly appeared in top form. Conducting never looked more fun as he swayed and gestured, managing the orchestral sound to perfection. He gave the Vivace Finale just the right light character, evoking an audible giggle in the audience and even a few smiles on stage. Haydn's musical underpinning this delightful movement with a "false" ending and some cute call and response sections in the woodwinds as the symphony drew to a close.

Woody and Wesley make White Men Can't Jump enjoyable

White, from Page 11

Forrell refers Gloria the money, the two nevertheless get the men to enter a two-on- two tournament with a grand prize of $5,000. It soon becomes apparent that Billy's per- sonal state of poverty isn't just bad luck. Even Rhonda Deane recognizes that he has a values isn't just hidden away beneath the hus- ler that Sidney's street buddies know. His "hustler that Sidney's street buddies know. His values isn't just hidden away beneath the hus-

Billy is streetwise, but he has the aura of innocence one might expect from a Harrelson character. The part is cast well. Watching the film, you get the feeling that somewhere down inside, there's a part of Billy Jano- siewski that believes everybody's basically a good person. He ecstasizes on that in unconscious ways, like not expecting Sidney to turn the tables on him in a hustle. Ironically, that may be one of the qualities Sidney likes about him.

Though the focus of the story is on the men, the most intriguing character is Gloria. Billy's girlfriend. For one thing, she's a "Archy" fanatic who spends the first half of the film memorizing books of the Bible and foods that start with the letter "A." She tends to initiate philosophical discussions seemingly out of the blue, confusing the hell out of Billy. In one delightful scene, after try- ing to explain to him that you don't always win when you think you do, she says, "Winning and loving is all one big organic globe that from which one extracts what one needs." Billy's response? "I hate it when you win on me and start to lecture me."

It's good fun, and it's a good story. The beginning is somewhat predictable, but that's more than offset by the pace, and the ending may even surprise you. The Stucci brothers eventually catch up with Billy, but their meth- ods of persuasion are somewhat unorthodox, to say the least. And yet, everyone's favorite game show host, Alex Trebek, makes an appearance. We even get to hear Harrelson sing part of a song that Billy writes for Gloria, which begins, "I never bring you water when you're thirstin' in our bed." Careful! If so, then watch the film. I think you'll enjoy it.
Ailey company exhibits original works masterfully

ALVIN AILEY AMERICAN DANCE THEATER
Judith Jamison, artistic director.
At the Wang Center.
Through March 29.
Presented by the Bank of Boston Celebrity Series.

By Josh Hartmann

Extraordinary dance companies don't drive their audiences to stand up in their seats and dance along with an encore performance. But it is clear that the Alvin Ailey American Dance Theater is no ordinary company. At a March 26 performance at the Wang Center, the Ailey troupe displayed some of the late Alvin Ailey's best original works. The result was a crisp, clean, and often stunning performance.

Most dazzling was Revelations, a 1960 work that is considered Ailey's most monumental piece. In the half-hour composition, 18 members of the 29-member company explore the motivations and emotions of African-American religious music. Revelations was so remarkable because of the vibrant expressions of the dancers. Each clearly felt the emotions Ailey intended to present in the dance—a requirement for performances at the level the Ailey company has been noted for. There are no "stars" in Revelations, for each member of the company plays an important part. But the finale, "Rocka My Soul in the Bosom of Abraham," was the most impressive because the crowd's reaction to the encore.

Revelations was only the last part of the program. Although it was a treat, its predecessors—"Ailey Classics" with eight dances, some excerpted, ranging in length from 2 to 10 minutes—were excellent as well.

In In Memoriam, Elizabeth Roxas, an eight-year veteran of the company, stunned the audience with her extensions. She was equally impressive as a soloist in The Lark Ascending, dancing to the musical romance for violin and orchestra of the same name.

But the lighter pieces were certainly more exciting than the more serious ones. Among them was Night Creature, from "Ailey Celebrates Ellington," an expressionistic and jazzy dance based on Duke Ellington's song of the same name. This was Ailey at his best, and dancers Sarita Allen and Andre Tyson excelled among the company.

In Opus McSkann, Tyson, Renee Robinson, Gary DeLoatch, and Desmond Richardson proved they are convincing actors as well as dancers. Richardson and DeLoatch put on an entertaining performance as drunkards, while Robinson and Tyson, in an equally amusing play, portray a woman trying to

Deborah Manning in Cry

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Trinity Repertory's Macbeth is flawed but powerful

MACBETH
By William Shakespeare.
Directed by Richard Jenkins.
Starring Timothy Crowe and Anne Scurria.
At Trinity Repertory Theater.
Through May 3.

By Chris Robenga

Shakespeare's Macbeth is as entertaining as it is thrilling, forcing a tight chain of greed, corruption, and ambition that bind its tragic hero to a fate from which he can not escape. Trinity Repertory Company's current production of the classic play delivers all of the horrors and delights present in the tale of the celebrated General's descent into murder and deception in his attempts to ascend into positions of power. The cast and crew of the Providence, R.I., theater company do suffer from some missteps, and some of their production decisions are questionable, but Richard Jenkins' somewhat flawed Macbeth is still powerful.

The set design, by Eugene Lee, is extremely minimalist, consisting primarily of planks, staircases, and walkways resembling a construction site far from completion. The lack of a concrete and definitive setting did focus attention on the actors and the themes they raised, but a more inventive use of the stage would have created a greater impression. The floor was constructed with several removable sections, which hid a large room used to set many of the play's morbid actions. The play's message to a specific setting and give Macbeth's actions a more specific association. As Banquo's murderers leap onto their victim, played very well by the black Pitts-Wiley, they wear Klan-like hoods. The very unsettling reference to the oppression of minorities by selfish and ambitious whites is perhaps a bit overdone, but it nevertheless leaves an impression.

Another very interesting result of the sparse set is that many of the props are used for different purposes in different scenes, causing some clever juxtapositions. When Banquo and Macbeth discuss the plan for their murder, they use a table used for a celebratory banquet. The set design, by Eugene Lee, is extremely minimalistic, with benches and stools set up in the center of the stage. The stained curtain is present in a majority of the scenes that follow, and often Macbeth moves directly behind it, providing a striking visual reminder of the violence that he has used to obtain his power. A table used for a celebratory banquet hosted by the new Scottish rulers, Macbeth and Lady Macbeth (Anne Scurria), is allowed to remain on the stage until a later scene in which it is overturned by the Sisters and used as a cauldron, Scurria's Lady Macbeth demands her weaker-willed husband. Scurria's performance is not the only facet of Jenkin's production which adds a distinctively sexual tone to the play. From the first scene, the audience is used by the use of a cross-dressing man as one of the Sisters to watch for issues of gender and sexuality. In a scene late in the play, Malcolm (Ed Shea) discusses the attributes which a leader may or may not possess with Macbeth in a very suggestive manner. While Malcolm lists "luxurious, avaricious, false, deceitful," he repeatedly thrusts himself upon a nearby pole. But when he alleged his lack of "justice, rectity, temp'mate, steadfastness," he emulates himself with a small dagger between his legs. Malcolm manages to visually argue that Macbeth may not be making the most virtuous decisions, but he is gaining the most pleasure that he can from them.

By developing the links between sexuality, politics, and the tragic ambition of Macbeth, Richard Jenkins's production raises several interesting points. The acting, set and costume design do have their weaknesses, but the more apparent strengths make Trinity Rep's Macbeth gripping entertainment.

ARTS EDITOR

By Chris Roberge
**Basic Instinct has little going for it except steamy sex scenes.**

While it is conceivable that even this script could be overdrawn by great acting, that possibility need not be entertained. In Basic Instinct, all performances are on par with the script.

To the extent that Sharon Stone demonstrates any talent at all, it would seem to be in her ability to assume a naked egotistical position, and then, in one rapid, highly stylized motion, pull from sight her slightly opaque face while, with animated back, she brings her somewhat slight breasts into an all too prominent and respectable upright view.

Michael Douglas, while slimmer down for his role, nonetheless offers even less evidence of talent than does Stone. George DiCenzo's screen time as Douglas' judge sidekick is considerable and never totally unpalatable. Jeanne Tripplehorn as a crooked shrink and Douglas love interest is able to Stone in acting style. Then there is Sharon Stone of yesterday, actress Dementia Malone, brought on screen seemingly for no other purpose than for Verhoeven to demonstrate that megabuck cinematic magic is not everything; in the ravaging of great beauty, age does very well on its own.

Indeed, in allowing Dorothy Malone to be her own mortal self, thereby drawing so stark a contrast to the artificiality of everybody and everything else, Verhoeven demonstrates the bit of wit evident in this film. The rest of his characters move with the absolute lack of grace inherent in the worst of modern dance. Artist that he is, Verhoeven manages to make the sex, which forms the bulk of this movie, simultaneously both silly and ugly. It is never the act of love, but instead an act of death, real people being in no way involved. It is a parody of sex and life itself.

There may well be certain instances when consideration of what is pornographic requires fine, precise calculations. Basic instinct is not one. Whatever the precise definition, "pornography" must be accounted anti-life, anti-love, and anti-sex. Diane Baker is all those—absolutely, unambiguously so.

That is in itself to provoke an audience reaction not so much of "prurient interest" as of revulsion and disgust meant simply that, according to legal standards, the movie does not merit banning. But it is nonetheless pornographic, nonevocative.

Verhoeven has as misanthropic a vision of mankind as has ever made it to the silver screen, his Times Hobbes' axiom that "the life of man is nasty, brutish, and short," and because Hollywood has given him all the money in the world to play with, he has abandoned the trend in its visions of some wit and sensibility, as he did in his European films, but instead simply emits his nightmares flatly upon the screen.

There is a certain fascination in watching the fantasies of some gangster or masochist skinned in rocks on the Wild Side. There is then that limit. The fascination with Verhoeven's adventures in American cinema is the spectacle of his continuing ability to spend vast sums on just the same thing.

Eventually his visions will combine the extremes of the sexual and the revolting to such a degree that audiences will no longer spend to see. Thereafter, no further Verhoeven visions will be commercially played out upon the screen. Basic Instinct's early box-office success would seem to insure that such time has not yet come. So Verhoeven's next must be an aberration way beyond the gutsy R, X, or whatever. Short of his somehow giving Dr. Nathaniel Lector as vegetarian, one cannot imagine how he'll deliver.

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MIT Cyclists Prepare to Defend ECC Championship

The MIT cycling team is set to defend last year’s East Coast Conference championship. They began this season with races at Penn State, Bloomonge College, Columbia, and the University of Connecticut over spring break. Despite sending only seven riders, MIT took second place at the races, run by Penn State. The race was contested over a flat fast loop where a strong wind helped break up the pack.

Karen Maclean G and Jill Sherwood ’95 took first and second in the men’s C race, Eddie Hernandez ’95, Leon Wong ’92, Andy Mor ’94, Abe Stroock ’95, and John Bauer ’94 used superior tactics to dominate a race against ten teams, including a much larger and stronger Penn State team. Mor, Bauer, and Stroock took first, second, and third overall and the top three places in all but one leg of the race.

The next day in Bloomsberg the races were greeted by a snowstorm and a bouncy and twisty criterium. In the women’s C race, Eddie Hernandez ’95, Leon Wong ’92, Andy Mor ’94, Abe Stroock ’95, and John Bauer ’94 used superior tactics to dominate a race against ten teams, including a much larger and stronger Penn State team. Mor, Bauer, and Stroock took first, second, and third overall and the top three places in all but one leg of the race.

Karen Maclean G and Jill Sherwood ’95 took first and second in the first prime but fell behind the hard-charging Penn State riders, finishing sixth and ninth respectively. In the men’s C race, Eddie Hernandez ’95, Leon Wong ’92, Andy Mor ’94, Abe Stroock ’95, and John Bauer ’94 used superior tactics to dominate a race against ten teams, including a much larger and stronger Penn State team. Mor, Bauer, and Stroock took first, second, and third overall and the top three places in all but one leg of the race.

The following weekend a stronger MIT team was defeated this time around the overall at the Columbia races. The Columbia criterium was held on a bumpy and twisty circuit in Manhattan, under strong winds. The riders, particularly those thin riders with large surface area in relation to their mass, were blown off the course by the high winds.

In the women’s C race, Kajeste Carlson rode away in a group of three. Clearly stronger than her companions, she took all but one of the primes and first at the finish. She was awarded first despite violating cycling etiquette in not showing her hands in the air as she crossed the line.

In the men’s C, Mor continued his successful first year by placing fifth in a pack sprint after winning every sprint in his races. The men’s A race marked the return to collegiate racing of former professional cyclist Peter Vollert. Vollert, riding for Cortell, demonstrated extreme strength in riding away from the pack in a group of six and then proceeding to drop all five of his competitors to win alone.

The University of Connecticut criterium was held on a tight, six-curved circuit in Hartford, Connecticut. Difficult corners and high winds quickly eliminated half the riders in the men’s A race and shattered the women’s races. In the women’s A, Carlson easily won again, riding away from the field after only 8 laps of the 30-mile lap race. Meanwhile, Maclean continued her first-year success by placing 7th.

In the men’s A, Jim Preisig PhD ’94 and Morrell triumphed up to take several primes. They also initiated several breaks, but high winds helped a hungry pack quickly chase down tutti.

The men’s A race marked the return to collegiate racing of former professional cyclist Peter Vollert. Vollert, riding for Cortell, demonstrated extreme strength in riding away from the pack in a group of six and then proceeding to drop all five of his competitors to win alone.

As Favored in AL West

Baseball, from Page 20
6. California Angels

After failing to sign free agents Randy Tomahall, Bobby Bontila, and Aulis Nixson, White Herzog set the stage for Dave, Hubie Brooks, and Von Hayes. Herzog’s moves only proved that the Angels will always make void young talent for old washed-up players. Remember Dave Parker? How about Troy Amaas, Don Junkan, Dave Winfield, and Don Boswell?

The strength of the team is its pitching. Last year, Tim Abbott, Chuck Finley, and Mark Langniss combined for a 57-28 record. But the Angels still finished last at 81-64. In the bullpen, Brian Harvey had 46 saves, striking out 119 in 79 innings. With the departure of Walter Joyner, Lew Stanton will take over first base. Second base is occupied by Luis Sojo, who can neither run, hit, nor field, Dick Schofield returns at shortstop, and Gary Cunti will cover third.

California has one of the better leadoff men in left field, Luis Polonia. Junior Felix is capable of superstar status if he stays off the disabled list. Brooks will be the designated hitter.

Robbie Cedric is having a very impressive spring. He hit .316 and drove in 61 runs and stole 46 bases last year in AAA ball. I won’t be surprised if Herzog trades Cedric, Felix, and some other young pitchers, to the Braves.

7. Kansas City Royals

The Royals made lots of moves in the winter meeting, but they didn’t improve much. Kevin McRaeo won’t catch Dennis Tartabull’s production. And nobody in the winter meeting, but they didn’t improve much. Kevin McRaeo won’t catch Dennis Tartabull’s production. And nobody can replace Brett Saberhagen.
April 3, 1992

THE TECH, Page 19

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**SPORTS**

**Toronto, Oakland Will Conquer Their AL Divisions**

**American League East**

Boston and Toronto both have the same team they did last year, with each team adding a top quality pitcher. So nothing is going to change. Toronto will win the division in the last week of the season.

1. **Toronto Blue Jays**
   - This team is better than ever before. Jack Morris, Jimmy Key, Todd Stottlemyre, Dave Stieb are the best starters five in the division. Tom Henke, Dan Ward, Dave Wells, and Mike Timlin are the best in the bullpen.
   - At age 40, Dave Stieb still hit 25 homers last year. And he will probably hit more this year now that he plays half of his games in the dome sooner. Joe Carter and Kelly Gruber will provide additional power. Devon White, Roberto Alomar, and moose Derek Bell should drive catchers crazy on the base path.
   - Boston Red Sox
   - A year ago someone asked who were the best right and left handed starting pitchers. I answered "The Rocket" and "Sweet Music." Now Boston has both Roger Clemens and Frank Viola on the same pitching staff, could this be the year that the Red Sox win the World Series? I don't think so because the Sox lack pitching depth, can't steal bases, and have a power shortage.
   - Although Joe Hesketh finished with a 12-4 record last year, I don't expect him to last through the season.
   - The last time he pitched over 100 innings was in 1985. The bullpen may encounter some problems. Jeff Reardon had 40 saves last year, but his back could flare up anytime. Jeff Gray is recovering from a stroke, and Danny Darwin's comeback is uncertain. Greg Harris may be ambidextrous, but he was overasted last year and could become another Rob Murphy.

**American League West**

- **Seattle Mariners**
  - The Rangers led the league in runs scored last year with 1041, but they also led the league in runs given up, also 1041. Things won't change much this year. Last year the Rangers finished 10 games behind the Twins because Jeff Russell blew 16 save opportunities. They will catch the Twins this year, but they won't catch the A's.

2. **California Angels**
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**Philadelphia Phillies**

- Phil Plummer will get more playing time, and although Mike Greenwell, Larry Bowa, and the top two players, and the infielders, and have a power shortage.
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**TA Associates VENTURE CAPITAL**

TA Associates, a $700 million venture capital partnership in Boston, will be interviewing qualified candidates in early April 1992 for the full-time position of Investment Analyst.

We are seeking an aggressive, highly-motivated and independent person to assist in investment activities. This entails conducting industry and company searches, contacting potential investments, and assisting in the due diligence process.

Please respond as soon as possible, by faxing or mailing your resume (no phone calls) to:

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