Enrollment Program Released

By Daniel C. Stevenson

MIT's Oldes and Largest Newspaper

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Wednesday, June 22, 1994

This week brought changes to Safe Ride, with the Cambridge routes being split into two separate routes and drivers now requesting MIT identification from riders.

Enrollment Program Released

Last month MIT issued a new, free version of the popular data encryption program PGP, which stands for "pretty good privacy." The release of the PGP Version 2.6 software resolved a potential conflict between an earlier version of PGP and patents held by MIT and Stanford University for the RSA data encryption algorithm used by PGP. The new version resolves this conflict by granting a free license for non-commercial use of the software package on computer networks in the United States.

Encryption programs such as PGP are used to protect files and electronic messages so that only the intended recipient can decode the document. Encryption is also used to authenticate the sender of electronic messages in order to determine their origin.

MIT holds the 1983 RSA patent and exclusively licensed it to Public Key Partners of California for sale and sub-licensing of the RSA public key cryptosystem. PGP was written by Phil Zimmermann, a private programmer, using an independently created version of the RSA algorithm, Zimmermann wrote in the PGP manual. PGP uses the public key encryption algorithm in order to secure channels because every user has two keys: a private key and a public key. The public and private keys complement each other by unlocking the code that the other makes. Zimmermann said. In addition, knowledge of the public key does not aid in discovering the private key, allowing the public key to be widely distributed.

A message sender encrypts a message with the recipient's public key so that only the recipient can decode the message using their private key. Alternatively, the sender can encrypt a message with their private key, which can then be decoded with the public key. This provides for authentic digital "signatures" of messages and files, Zimmermann said.

September format change

A deliberate change to PGP Version 2.6 will occur on Sept. 1 that is intended to "discourage PGP users from using PGP Version 2.6 on U.S. computers. [...]" according to the information document. RSA Data Security Inc., the company which supplies the RSAREF Cryptographic Toolkit used in the PGP Version 2.6 software, would not support the new PGP without the format change, according to the document.

The change makes the new version incapable of completely interoperating with the old, potentially patent-infringing version, according to the document.

At Sept. 1, PGP will produce a slightly different data format. The program will still be able to read and process messages, signatures, and keys produced under the old format, but it will produce data using the new format, according to the PGP manual.

The potential patent infringement by Professor of Electrical Engineering James D. Bruce '60...

Wisdom Awarded MacArthur Grant

By Sarah Y. Keightley

At a news conference on May 9, the Task Force on Human Subject Research announced its conclusion that the subjects in the radiation experiments done by MIT and Harvard University researchers in the early 1950s were not exposed to dangerous levels of radiation. The announcement was made at the Walter E. Fernald State School in Waltham, Mass., which is where the experiments took place.

In the 1950s, the late Professor of Nutrition Robert S. Harris studied the absorption of calcium and iron by feeding 125 mentally retarded patients of the Fernald school milk and cereal that contained radioactive tracers. These experiments were first made public in late 1993 when Energy Secretary Hazel O'Leary declassified thousands of government documents about radiation and radiation testing. In January, Philip Campbell, the commissioner of the Department of Mental Health, had the task force investigate these nutritional studies. The task force met for four months before issuing its report. According to the report, "in the best judgment of the authors whose opinions were sought by the task force, no significant health effects were incurred by the research subjects as a direct result of the nutritional research studies in which radioactive calcium and iron tracers were used."

"I am pleased that the task force has confirmed MIT's initial impression that no harm was done to the participants in the cereal nutrition studies that were the initial focus of publicity," said Vice President and Dean for Research J. David Littter PhD '63 in a statement.

Today: Partly sunny, 85°F (29°C)

The Weather

President Charles M. Vest gives his charge to the graduates at the May 27th Commencement exercises.

Task Force Reports On Fernald Studies

By Abigail R. Valshnow

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President Clinton expressed skepticism about North Korea's intentions to follow through on pledges made to former President Carter during Carter's 1994 mission to Pyongyang, said the United States will not come back to the talks, its not worth it.

White House officials said the administration is continuing to seek sanctions against North Korea as punishment for thwarting international nuclear inspections, and officials held an unscheduled meeting Monday at the United Nations to discuss the issue.

Clinton said the Carter trip had yielded some “hopeful signals,” but cautioned against enthusiasm, since he’s not convinced Pyongyang would act on its word.

Carter said over the weekend that the North Korean dictator, Kim Il Sung, had vowed to halt all nuclear fuel loading and reprocessing, but a North Korean official suspected of producing material for nuclear weapons said in an interview with the Washington Post that talks were under way.

Clinton Monday said that he was not “at all surprised” by Pyongyang’s latest move.

“Of course there is something to gain by talking with the North Koreans,” he said.

The nation’s hospitals aren’t waiting for health reform legislation to pass Congress. They’re already implementing dramatic changes on their own, the accounting firm Deloitte & Touche reported Monday.

A survey of 1,200 top hospital executives, the firm says the study hospital — which provided inpatient services ordered by doctors virtually anywhere — was the most significant departure from patient treatments. Doctors are increasingly linking up with doctor groups and providers of other services to provide a broad assortment of services. These include medical consulting, physical therapy, pharmacy services, and nursing home and home care, the report said.

The need to start looking for a specialist or a special institution at every stage of an illness would be eliminated. The hospital’s service network would move patients from one step to the next. That is exactly what many of the current reform plans being debated in Capitol Hill want to encourage.

They also found that 71 percent of the hospitals already are in the process of developing “integrated delivery systems,” which means that if an insurer contracts with one of the hospitals to provide health care, its integrated system will provide the entire range of services.

The market has gone reality one better, This week’s cover features a grim mug shot of O.J. Simpson looking darker and more sinister than in the same picture on the cover of Newsweek, an article by former Newsweek editor, the firm says the study hospital — which provided inpatient services ordered by doctors virtually anywhere — was the most significant departure from patient treatments. Doctors are increasingly linking up with doctor groups and providers of other services to provide a broad assortment of services. These include medical consulting, physical therapy, pharmacy services, and nursing home and home care, the report said.

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O.J. Simpson Enters Plea of Not Guilty to Murder Charges

By William Claborn

LOS ANGELES

Looking exhausted and at times irritable, a subdued O.J. Simpson pleaded not guilty Monday to two counts of first-degree murder in the killing of his ex-wife and her friend.

He was ordered held over for a preliminary hearing on June 30, when the first substantive details of the evidence against him will come to light.

As the arraignment occurred, a grand jury meeting four floors above the courtroom was considering an indictment in the case, in which Simpson is charged with murdering Nicole Brown Simpson, 35, and Ronald L. Goldman, 25. If the grand jury indicts, the preliminary hearing could be canceled, allowing the prosecution to conceal some elements of its case from the defense until closer to the actual trial.

Simpson, dressed in a dark blue suit with a white shirt and no tie, showed little emotion for most of the session as he listened to a public recitation by Judge Pati McElroy of charges that, if proven, could result in his execution. At times, his eyes narrowed as he tilted his head sideways. At one point his attorney, Robert L. Shapiro, had to prompt him to answer the judge’s question.

"Yes, I’m sorry,"... said Shapiro.

Shapiro rejected a suggestion that an insanity defense would be inconsistent with Simpson’s assertion of innocence in a rambling, emotional letter made public last Friday. The handwritten letter, which contained suggestions that Simpson was planning suicide, was read to a news conference by his chief defense attorney last Wednesday.

However, Shapiro declined to reveal any details of his defense strategy which will be based on a claim of temporary insanity, saying only that "every possible defense has to be considered by any trial lawyer, and we will consider all possibilities."

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Soccer Needs More Television Coverage

Column by Michael K. Chung

With the World Cup underway, I am now convinced that soccer coverage is feasible on American television. With soccer as one of the most popular sports not only in the United States, but all over the world, the television industry has long owed adequate coverage to the American people. The efforts of the ABC and ESPN broadcast stations demonstrate that commercial-free broadcasts are certainly worthwhile.

Soccer has been long neglected on American television because the structure of the game does not allow for time-outs or other stoppages of play (other than injury). Due to this lack of "commercial room," television stations have not broadcast soccer events on a regular basis, with the possible exception of Olympic coverage. But even then, what little of the sport was shown usually appeared in the form of abbreviated highlights; and since this is the United States, the coverage focused primarily on the Americans.

ABC's uninterrupted, live coverage of the U.S. soccer team's first-round game versus Switzerland showed considerable competence in televising the game. From what I understood, American coverage of soccer (or "football," as I prefer) posts the sponsoring advertisement of a particular game segment in the corner of the television screen, and announces others at appropriate times during the game. During half-time of course, commercials can be shown. Perhaps using this model of European coverage, commercial-free game sponsors were announced in the United States-Switzerland game and displayed in the corner of the screen. In and of itself, this was refreshing and true to the sport (unlike American football and basketball, each with its share of "television time-outs").

In addition, camera angles and use of instant replays duplicated the television crew's competence to broadcast a soccer game. The commentary seemed reasonable, but I am no authority as I have almost no experience with the game. I am sure that as time goes on, the sport's commentators will continue to improve. They did seem well-informed about the players, and kept the dialogue continuous throughout the game.

What impressed me the most, however, was the fact that the ABC commentators announced what games will be broadcast not only on their own station throughout the tournament, but also on ESPN. Never before have I witnessed one station announce the coverage schedule of a competitor. This is most admirable, and I am quite pleased that the World Cup coverage is not monopolized by a cable company for the simple reason that not everyone who enjoys the game of soccer has the access to such cable programming. Network channels, on the other hand, are accessible to all television viewers, and it is only fair that the entire country have the opportunity to watch part of the festivities.

While I am unsure of what soccer leagues on the amateur and professional level exist in the United States, it is certainly worthwhile for American television producers to look into the coverage of the sport. Whether such coverage becomes a monopoly (e.g. the National Football League), or shared between stations (e.g. major league baseball) can be determined later.

The most important thing is to broadcast this great sport to the public without distorting the game itself. Since it is an international sport, it is unlikely that it will become infatuated with television time-outs, rock-and-roll music broadcast at every possible non-game moment (as during National Basketball Association coverage), and other potential distractions. With so much television coverage is general and soccer's popularity in the United States, soccer undeniably deserves its place on the American television lineup.

Michael K. Chung '94 is a former opinion editor of The Tech.
June 24

Last day to buy in-stock products using FY ’94 funds

Apple Computers - PowerBooks, PowerMacs, LCs, and Quadras
PCs - AT&T, Dell, and IBM PCs and Notebooks
Workstations - Athena, DEC, SGI, and Sun
Software - Aldus, Claris, Lotus, Microsoft, Wolfram (and more!)
Printers - Apple, GCC, and HP
Monitors - Apple, AT&T, Dell, IBM, Radius, and SuperMac
Drives - Apple, GCC, iOMEGA, Micronet, and r-squared
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Accessories - Everything you need to get going!

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► We’re an MIT department, located right on campus
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► We sell products at Academic Discounts
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Tuesday-Friday: 10-4:30
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MIT Information Systems
THE ARTS

Though simple, Speed still proves successful

SPEED
Directed by Jan DeBoort
Written by Graham Yost
Starring Kevin Bacon, Angelina Jolie, Randy Quaid, James Spader, Kate Nelligan, Jack Lemmon, Tom Skerritt, Sydney Poitier, Jack Nicholson, Michelle Pfeiffer, Jeff Daniels, Bullock, and Harry Reid

Speed, a high-octane action-adventure comedy that was both popular with audiences and a critical success.

The movie centers around the story of Hal Needham (Kevin Bacon), a high-powered corporate executive who is brought to life by the realization of his greatest ambition: to save his company from the impending collapse of its major client, a giant insurance company.

The film follows the character as he tries to save the company from the brink of disaster by planting a team of skilled professionals in the client's offices to prevent the collapse.

The cast includes Angelina Jolie as a brilliant computer hacker named Michelle Pfeiffer as a tough-as-nails detective, Jeff Daniels as a charismatic ethics officer, and Jack Lemmon as a gruff but good-hearted employee who becomes an unlikely ally.

The action sequences are expertly choreographed and the film's fast-paced narrative keeps the audience on the edge of their seats.

Despite its action-packed nature, the film also features moments of humor and charm, particularly with the chemistry between Bacon and Jolie, who share several funny and memorable scenes.

Speed was a massive commercial success, grossing over $250 million worldwide, and launched the careers of several of its stars, including Jolie and Pfeiffer.

Overall, the film is a fun and exciting ride that is sure to please fans of high-octane action movies.
Anderson improves in his second Star Wars book

**Dark Apprentice**


**Patrick Mahoney**

**STAFF REPORTER**

A

though still slightly predictable, *Dark Apprentice* — the newest book in the Star Wars line — is enjoyable and entertaining.

The most valuable portion of this book is the use of the villainous, Admiral Daala. Though not as ingenious as the Grand Admiral Tarkin in Timothy Zahn's recent trilogy, she is undoubtedly Menlo Doyle, the primary antagonist of Kevin Anderson's first book (*Jedi Striker*) in this trilogy. Daala is cold and calculating, and although she is more intent on random destruction than defeating the New Republic, her experience and knowledge are definitely reflecting.

In general, all of the characters in *Dark Apprentice* are much better than their counterparts in *Jedi Striker*. All of them seem much more alive, and are more reminiscent of the characters in the films. All of the action of the characters is well justified and even the most drastic of changes — Admiral Ackbar's resignation — are developed and completely believable. There are occasional exceptions to this when the characters seem driven in a certain path only to further some important plot line. For example, throughout the book Han and Lando argue about whether Han should really own the Millennium Falcon or not. Overall, however, I found the characters' actions entirely plausible — a vast improvement over *Anderson's Jedi Search*.

Unfortunately, *Anderson* still suffers from one main problem: He explains too much. He often explicitly tells the reader what the character is thinking rather than letting the reader figure it out himself.

Much of what develops with the Jedi academy is predictable, as *Anderson* nearly spoiled it in the first book. Still, he does a good job describing the history of the old Jedi and their downfall. He is able to keep the reader's interest in what could have easily become a boring plot line about a bunch of young Jedi.

**The Lion King**

Motion Picture Soundtrack.

Music by Elton John.

Lyrics by Tim Rice.

Score Composed by Hans Zimmer.

Wait Disney Music Company.

By Patrick Mahoney

**STAFF REPORTER**

I

n the fine tradition of The Little Mermaid, Beauty & the Beast, and Aladdin, *The Walt Disney Company* has created a musical masterpiece in The Lion King whose soundtrack is already available in stores. The movie is due out in theaters Friday.

Both the music and the lyrics of The Lion King serve to tell the story of Simba — a newly born lion cub who is destined to be king. It starts out with the presentation of the young Simba to the rest of the world. This lively and energetic *Circle of Life* immediately captures your attention and draws you in. This is lyricism *The Rice* most powerful piece, as it perfectly creates the image of a young lion cub meeting a vast and unbridgeable world for the first time.

Immediately the music flows into an almost playful piece in which the young Simba (performed in the song by Jason*P: Poor

**1.** Average

**2.** Above Average

**3.** Good

**4.** Excellent

disappointment. It is nowhere near as amusing as the first, and the actors (Billy Crystal, Jack Palance, and Daniel Stern) have lost the charm that they had in the original. Palance's character, Duke — the twin brother of Curly — is badly written and a poor attempt at recapturing the appeal that Curly had in the original film. Great cinematography and the charm that they had in the original. The new sound seems to own. Overall, the soundtrack is exceptional and leaves you wanting to go see the movie. Time to go see this one before it's too late.

**The Cowboy Way**

Pepper (Woody Harrelson) and Sonny (Kerler Sutherland) are two New Mexico cowboys who have been friends since they were young and have recently experienced a falling out. Now they are about to venture to New York City to meet a new sound which has been described by the producers of the movie as 'a unique and powerful piece of music.' The new piece, as it perfectly creates the image of a young Simba, is badly written and a poor attempt at recapturing the appeal of Curly, who runs several slave-labor farms.

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**On the Screen**

**4.** Excellent

**3.** Good

**2.** Above Average

**1.** Average

**1/2** The Crow

This action film casts the late Brandon Lee's performance is impas-

tant — a vital addition to the role of Draven, the sadistic urban overlord/villain. Lee's performance is impas-
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**2 Short Films About Glenn Gould**

This film really is what the title says: a series of **2** films, ranging in length from 45 seconds to between 10 and 15 minutes. A brilliant pianist, the eccentric Gould was known for his insightful interpretations of J. S. Bach's music, and this film is full of Bach-like pieces. For example, the first film shows Gould playing Bach or Hindemith's music through the cinematic art form. Some of these experimental pieces seem simple, but the joy of sitting in a darkened theater listening to Gould playing Bach or Hindemith is more than enough to sustain these few moments of visual Kenzie. This is as thorough an outline of a man's life as can be presented in two hours, and it is certainly dis-

**10 Short Films About the Cure**

Bret Maverick (Mid Gibson), Zane Cooper (James Gardner) and Annabelle Breedford (Jodie Foster) watch approaching Indians in Maverick.
Though simple, *Speed* still proves successful

**SPEED**

Directed by Jan DeBont. Written by Graham Yost.

Starring Keanu Reeves, Dennis Hopper, Sandra Bullock, Jeff Daniels, Kate Nelligan, and Jonathan Hyde.

**By Scott Deskin**

*S* *peed* is a simple-minded action movie that derives most of its inspiration from high-speed jaunts through Los Angeles freeways and subway systems and from some pretty silly explosions. The character developments are secondary to the plot. Jack Traven (Keanu Reeves) is a New York team member whose living-the-edge heroics make him the ideal hero; Howard Payne (Dennis Hopper) is the megalomaniac sword-wielder who et al. manages to keep up with the required amounts of bloodshed, fast-moving vehicles, and explosions.

As with every great action vehicle, there has to be a gimmick, and *Speed* has no exception. After finding Payne's initial attempt to extort $3.7 million from the city, Traven becomes a helpless pawn in the road runner's scheme to get his money. The problem: A transit bus has been wired with a hefty amount of explosives. The good-faith sorts (Payne and Traven) are carrying the explosives. The catch: Once the bus exceeds 50 miles per hour, the bus is armed to explode if the bus dips below that mark. Therefore, Traven's mission is to catch up with the bus and make sure that innocent people aren't killed. All the authors note, but the action sequences are so good that you can begin to appreciate the one-liner dialogue, which provides some comic relief.

The choice to cast Jack Nicholson as a back-stabbing co-worker (James Spader) who is already dubbed a Madame Bovary is a bad one. However, practically all of that potential is wasted by a bloated, unrealistic love story, and Nicholson’s performance is only slightly less reprehensible than his disdain for the female. The later prevail, though, and they are not stellar but merely solid enough to keep up with the incoherent plot. Jack Traven (Keanu Reeves) is a world-wise rich girl who inevitably falls for the millionaire's daughter (Michelle Pfeiffer), and her self-determined, hard-nosed character concerning his mission: "Bombs in New York? That's just great beauty." But if the screenwriter is far from poetically inclined, the choreographed crashes and explosions are sheer poetry in motion.

A movie like *Speed* almost defies criticism because of its engrossing Jacqueline Kennedy-onassis aspirations and big-budget visual excitement. Some people may brush this film off as an expensive way to wear out your legs, but with hardly any character interaction to make love interest. As annoying as James Spader's charged drama. But if more films are going to take their cue from the fast-food-Sanner's wild shots of a movie that just promises a good time -- an action film strictly for thrill-seekers.

In *Speed*, the newfangled action movie, the plot. Traven which has been taken off of the menu, and the Brie, Fresh Pear, and Watercress sandwich for $5.40. The management also seems to think that everyone who eats a dish with 'reggae' in the title must like eggplant, but there are plenty of other vegetarian options for those who do not fit that description. To further fit the Californian profile, there is no beef on the menu, and all espresso drinks are available in decaffeinated form. The variety of drinks expected from a '90s cafe is available here, including plenty of fruity frothy beverages to battle the sultry summer weather. This is where the overpriced assortment happens, as in some of the more elaborate concoctions cost $3 or more -- typical for such trendy as *California Cafe*. In the photo, you can sit at an outside table wearing a skirt and throw a blanket over the edge of the shady brick walk of the Southwest Corridor for even more of a Venice feel.

This is a great choice for a light meal in Copley Square, which is otherwise largely devoid of good, inexpensive restaurants. But the food is pricey for a New Yorker hoping to take a break from the shrine, so their cookie-cutter roles are perhaps a distraction from the incoherent plot.

Nichols and Nicholson disappoint with a tame *Wolf*

**WOLF**

Directed by Mike Nichols. Written by Nancy Harrison and Wesley Strick.

Starring Jack Nicholson, Michelle Pfeiffer, James Spader, Kate Nelligan, and Christopher Plummer.

Leora Cheri.

**By Scott Deskin**

T he choice to cast Jack Nicholson as a werewolf in the new film *Wolf* seems like a legitimate move. But if this film he plays Will Randall, an editor-in-chief at a publishing house whose life is being haunted by the rocks. His company has been taken off of the menu. Any time you want to get off campus and hang out in the Buck for awhile. It's good, it's friendly, it's a fun place you can make you think of college, brighter shores.

Ever feel like you just wasted $7 on a really bad movie? Join The Tech Arts staff and you can see the same bad movie for free. Call Ann or Michael at 3-1541.
Anderson improves in his second Star Wars book

**Dark Apprentice**

Anderson improves in his STAFF REPORTER

Dark Apprentice — the newest book in the Star Wars line — is enjoyable and entertaining. The most valuable portion of this book is the use of a clever villainess, Admiral Daala. Though not as ingenious as the Grand Admiral Thrawn in Timothy Zahn's recent trilogy, she far outshines Mon Mothma, the primary antagonist of Kevin Anderson's first book (Jedi Search) in this trilogy. Daala is cold and calculating, and although she is more intent on random destruction than on defeating the New Republic, her experience and knowledge are refreshing.

In general, all of the characters in Dark Apprentice are much better than their counterparts in Jedi Search. All of them seem much more alive, and are more reminiscent of the characters in the films. All of the action of the characters is well justified and even the most drastic of changes — Admiral Ackbar's resignation — are developed and completely believable. There are occasional exceptions to this when the characters seem driven in a certain path only to further some unimportant plot line. For example, throughout the book Han and Lando argue about whether Han should really own the Millennium Falcon or not. Overall, however, I found the characters' actions entirely plausible. — A vast improvement over Anderson's Jedi Search.

Unfortunately, Anderson still suffers from one main problem: He explains too much. He often explicitly tells the reader what the character is thinking rather than putting out a few sentences which give the reader a chance to figure this out for himself.

Much of what develops with the Jedi academic is predictable, as Anderson merely spells it out in the first book. Still, it is a good beginning, describing the history of the old Jedi and their downfall. He is able to keep the reader's interest in what could have easily become a boring plot line about a bunch of young Jedi.

**Music by Elton John.**

Motion Picture Soundtrack

By Walt Disney Company.

**The Lion King**


THE LION KING

Music by Elton John.

AIt Patrck Mahoney

THE LION KING is due out in theaters next month making inroads in the business world, becoming an instant success at the toy company where he is hired. But he isn't ready for the incredible competition and the joy of sitting in a darkened theater to watch the most famous movie musical of all time.

The movie is due out in theaters Friday, with the music and the lyrics of The Lion King serve to tell the story of Simba — a newly born lion cub who is destined to be king. It starts out with the presentation of the older Simba to the rest of the world. This is a lively and effective piece in which the young Simbas meet a vast and unbelievably well-crafted collection of characters which give the album a more serious and believable feel.

Immediately the music flows into an almost playful piece in which the young Simbas (performed in the song by Jason Weaver) claims "I Just Can't Wait to Be King." It is a fun piece which gives the impression of a young lion cub meeting a vast and unbelievable world. This piece, as it perfectly creates the image of a young Simba to the rest of the world. This is a lively and effective piece in which the young Simbas meet a vast and unbelievably well-crafted collection of characters which give the album a more serious and believable feel.

Simba struggles to find his destined place in nature. **circle of life** surrounded by his friends in The Lion King.

Reminiscence of Aladdin and Beauty & the Beast, many of the songs sound over-slightly familiar the first time you hear them, but they begin to grow on you. Overall, the soundtrack is an enjoyable experience and leaves you wanting to go see the movie. Tim Rice did an outstanding job in making this set of memorable original melodies with a slight "Indian" theme.

**On the Screen**

**Starring:**

Slickers

**Music:**

The Legend of Curly's Gold

After the first City Stickers, this film is a disappointment. It is nowhere near as amusing as the first, and the actors (Billy Crystal, Jack Palance, and Daniel Stern) have lost the charm that they had in the original. Palones, character, Duke — the twin brother of Curly — is badly written and a poor attempt at recapturing the appeal that Curly had in the original film. Great cinematography and the addition of Jon Lovitz as Crystal's lazy brother each add a little to the film, but they aren't enough to save it from mediocrity. — PM.

Loews Copley Place.

**The Cowboy Way**

Pepper (Woody Harrelson) and Sonny (Reifer Sutherland) are two New Mexico cowboys who have been friends since they were young but have recently experienced a falling out. Now they are about to venture to the Big Apple to locate their friend Nacho (Joaquin Martinez) who went there to pick up his daughter. Harrelson and Sutherland are a brilliant pair, constantly trying to outdo each other with their quirky and humorous behavior. The film is entertaining, but the whole Pepper-Sonny quarelling is distracting and doesn't have a place in the movie. The Cowboy Way has the potential to be a hilarious comedy with cowboys in New York City, but doesn't quite make it. Instead it tries and fails to make itself "meaningful." — PM.

Loews Copley Place.

**The Fifth Crow**

This action film stars the late Brandon Lee as Eric Draven, a deceased musician who returns from the grave to exact revenge on his tormentors. By way of avenging the rape and murder of his girlfriend (on Halloween), he can finally achieve peace. The film's message of redemption is a truly sentimental one, and Lee's performance is impassioned as a mock angel of death. It also has a dark, Barron-inspired edge to most of its scenes, which is not bad. In the end, the violence is far too excessive in terms of staging and exhilarating. Watching this film is emotionally draining, and although

that may be a relief compared with the vacuity of traditional summer movies, it's not a fun movie to watch. — Scott Dobkin, Los Angeles Times

Cinema 57

**Maverick**

Mel Gibson and Jodie Foster star as poker players trying to raise the $25,000 entry fee for the "poker game of the century." Maverick features good bad-guys, bad-good-guys, and smart women, and avoids all the typical stereotypes of standard westerns. It's a "politically correct" movie that fits easily into the western genre. Director Richard Donner masterfully keeps the plot one step in front of the audience, creating an unpredictable, hilarious, and thoroughly enjoyable film. — PM.

Loews Copley Place.

**32 Short Films About Glenn Gould**

This film features: a real life film of 32 films, roughly eleven from 45 seconds to between 10 and 15 minutes. A brilliant pianist, the eccentric Gould was known for his insightful interpretations of J. S. Bach's music, and this film is full of Bach-like preludes and fugues, some sad and some bold, but all fascinating. Styles vary as much as lengths, there are dramatized scenes from Gould's life, interviews with friends and relatives, and avant-garde clips that explore Gould's music through the cinematic art form. Some of these experimental pieces seem aimless, but the joy of sitting is a darkened theater to watch the music of Glenn Gould is more than enough to justify any of them. This is an hour-long account of Gould's life as he learned something. — Ann Ames, Los Angeles Times
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Ongoing Theater

Curtain Call. Picture House, 33 Marrett Rd., Lexington. For tickets, call 947-5175. 6 p.m. to 9 p.m. $15, $10 for students and seniors. Information: 947-5175.

Exhibitions

Film

Strobe Alley. Octopus, 260 Main St., Boston. (617) 426-3800. Tuesday, Wednesday, Thursday, Friday, Saturday, Sunday. 8 p.m. $6, $5 for seniors and students.

Stumble-Upon-Agey Women. Undergraduate Library, 200 Harvard Ave., Cambridge. For tickets, call 495-7060. 6:30 p.m. $11, $7 for seniors and students.

The Space of Things. Mary Lee F. Smith Gallery, Cuba House, 220 Pearl St., New York City. (212) 431-6800. Thursday, Friday, Saturday, Sunday. Noon-6 p.m. Free admission.

Theatre

Two Birds in a Tree. The Egg, 175 Main Street, Cambridge. (617) 354-1452. Tuesday, Wednesday, Thursday, Friday, Saturday, Sunday. 8 p.m. $15, $12 for students and seniors. Information: (617) 354-1452.

The World According to John. The Resurrectionist, 162 Dartmouth St., Boston. (617) 227-0550. Tuesday, Wednesday, Thursday, Friday, Saturday, Sunday. 8 p.m. $15, $12 for students and seniors. Information: (617) 227-0550.

The Way We Were. The Way We Were, 1190 Boylston St., Boston. (617) 267-4737. Tuesday, Wednesday, Thursday, Friday, Saturday, Sunday. 8 p.m. $15, $12 for students and seniors. Information: (617) 267-4737.

The Eyes of John. The Plow and the Stars, 83 E. 2nd St., New York City. (212) 254-2400. Tuesday, Wednesday, Thursday, Friday, Saturday, Sunday. 8 p.m. $15, $12 for students and seniors. Information: (212) 254-2400.

Two Moons: A Quilt Tribute to 20th Century. The Textile Museum, 25 Quincy St., Cambridge. (617) 867-3700. Tuesday, Wednesday, Thursday, Friday, Saturday, Sunday. 11 a.m.-5 p.m. Free admission.

Two Women. The Five Women, 702 N. Highland Ave., Los Angeles. (213) 466-2600. Tuesday, Wednesday, Thursday, Friday, Saturday, Sunday. 8 p.m. $15, $12 for students and seniors. Information: (213) 466-2600.

Two Worlds Apart. The Old Vic, London. (207) 139-6100. Tuesday, Wednesday, Thursday, Friday, Saturday, Sunday. 8 p.m. $15, $12 for students and seniors. Information: (207) 139-6100.

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Subjects Exposed To Low Radiation

Femald, from Page 1

was well within the standards used during the 1950s, he said. More-
over, "The exposures to radiation were between 30 percent and 99
percent below the much more strin-
gent standards that are in effect today," Campbell said.

Parents not informed

The parents of the youths at the
Femald school were probably not
informed that the experiments their
children would be participating in
involved exposure to radiation,
according to a report published in
The Boston Globe earlier this year.
Both President Charles M. Vest
and Lister were concerned about the
ethical implications of these
radiation studies as they were done
without the informed consent of
the parents of the mentally retarded
youths.

In a statement issued in early
January, Vest said, "I was sorry to
hear that at least some of the young
people who participated in this
research and their parents apparent-
ly were unaware that the study
involved radioactive tracers."

However, Vest and Lister did
emphasize that the research has
enhanced scientists' understanding
of the nutritional processes and that
the studies caused no harm to the
health of the involved subjects.

"It is important to recognize that
the purpose of these studies was to
improve understanding of nutrition-
al processes in order to promote
understanding of nutrition-
ally."

Software Resolves Patent Conflict

PGP, from Page 1

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PGP, from Page 1

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PGP, from Page 1

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PGP, from Page 1

the Institute's program to increase compliance with handicapped access
regulations.

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Director of a nongainous mircosal facility: The facility is equipped with the newest technology, located in the new Biomedical Research Building. Experience with microinjections and preferably also with embryonic stem cells is required. A very competitive salary, excellent opportunities for promotion and academic interactions are available. Please send a CV to Dr. Kenyav Ravid, Biochemistry K225, Boston University School of Medicine, 80 East Concord St., Boston, MA 02118.

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Miscellaneous

Donate Your Live Brain to Science
(Still, for 15 minutes anyway...) The Dept. of Brain & Cognitive Sciences seeks subjects with that language is American English for exciting psycholinguistic research. Pays $5 for 15 minutes. Call Marie at 253-8408 or send email to marie@psyche.mit.edu.

Donate Your Live Brains, Part II The Department of Brain & Cognitive Sciences seeks subjects with various linguistic backgrounds for experiments about all kinds of cool stuff that pay some amount of money for varying lengths of time. Send email to molly@psyche.mit.edu for a questionnaire and details.

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Graduates Advised to Use Cooperation

Commencement, from Page 1

Communist world, the Muslim world, and the Western world. The Aga Khan posed the question of how this country could solve its problems without turning into another Bosnia.

"The result of the encounter in Tajikistan may determine much about the way history unfolds over the coming decades, so it is worth thinking a bit about the stance that each of these cultures might take in preparing for this encounter," the Aga Khan said. "That thought might lead one to ask what it would take for this, or any, encounter to be constructive."

The Aga Khan's advice was that each culture should draw on its strengths, have consistent goals, seek overall improvement, and ensure that the transition is humane. He later said that "I hope that those four prerequisites applied equally to the encounter that you are just completing with MIT."

He ended his speech by saying: "Please accept my best wishes for a wonderful, happy [life]."

Software Resolves Patent Conflict

PGP, from Page 1

ments of the older PGP 2.3a only apply to the United States. "PGP users [outside the U.S.] are free to use implementations of PGP that do not rely on [the] RSAREF [Crypto- graphic Toolkit] or its restrictions," according to the PGP Version 2.6 manual.

Although these users are not obligated to upgrade to the newer version, the authors of PGP are "asking the users to upgrade the inconvenience of making a change to the non-U.S. version of PGP for any technical reason," according to the information document.

The voluntary upgrade "will benefit PGP users outside the U.S. as well as within the U.S.," the document said.

Because of U.S. export controls, "we do not expect PGP users abroad to be sent outside the country. Instead, the changes necessary to upgrade the old version of PGP have been published by MIT so that users outside the U.S. can use the program without exporting the software, according to the document.

Wisdom Named MacArthur Fellow

Grant, from Page 1

are often called "genius grants." Simpson said that this term was coined by "the media and by the public at the very beginning of the program."

Using chaos to describe solar system

Wisdom said he is "working on applying methods of nonlinear dynamics to problems in the solar system," such as the orbital and rotational motions of the planets and the motion of their satellites, meteorites, asteroids, and comets.

"Nonlinear dynamics, chaos, has provided important insights," Wisdom said. "For instance, meteorites very likely come to the Earth by way of chaotic trajectories," he explained. Also, there is "evidence the whole solar system is chaotic including the Earth's orbit and Mars," he said. Mars' dramatic climate changes can be explained by its chaotic motion which causes its tilt to vary from zero to 60 degrees, he said.

Wisdom is the tenth person connected with MIT to be named a MacArthur Prize Fellow, according to Tech Talk.

The grants range from $255,000 to $375,000 over a five-year period, depending on the age of the Fellow. Furthermore, the Fellow is offered full health insurance, according to Tech Talk.

Fernald, from Page 1

was well within the standards used during the 1950s, he said. Moreover, "the exposures to radiation were between 30 percent and 99 percent below the much more stringent standards that are in effect today," Campbell said.

Parents not informed

The parents of the youths at the Fernald school were probably not informed that the experiments their children would be participating in involved exposure to radiation, according to a report published in The Boston Globe earlier this year.

Both President Charles M. Vest and Lister were concerned about the ethical implications of these radiation studies as they were done without the informed consent of the parents of the mentally retarded youths.

In a statement issued in early January, Vest said, "I was sorry to hear that at least some of the young people who participated in this research and their parents apparently were unaware that the study involved radioactive tracers."

However, Vest and Lister did emphasize that the research has enhanced scientists' understanding of the nutritional processes and that the studies caused no harm to the health of the involved subjects.

"It is important to recognize that the purpose of these studies was to improve understanding of nutritional processes in order to promote health in young people, and that the radiation was well within today's limits," Vest said earlier this year.


Subjects Exposed To Low Radiation

Bicyclists may soon be given their own lane along busy Massachusetts Avenue if a proposal is to create a bike lane, which was presented at a city hearing yesterday, is accepted by Cambridge officials. The proposed lane would replace 50 parking spaces and a taxi stand on the southbound side of the street, from Memorial Drive to Central Square.
SPORTS

MIT Runner Wins Event at NCAA Div.III Meet

Roger Cressey
SPORTS INFORMATION DIRECTOR

MIT junior track man Ethan Crain of North Windham, ME, won the National Collegiate Athletic Association Division III championships in the 1,500 meters recently at the champi-
nship meet at North Central College in Naperville, IL. Crain, who was seeded eighth in the event entering the meet, covered the course in 3:52.52 to earn All-American honors as well as the title.

GTE College Sports Information
Directors of America (CoSIDA)

Academic honors have been bestowed on several MIT Athletes recently. Senior softball outfieldeer Doreen Chapman has been named to the Academic All-America third team for her performance both in the classroom and on the field. Chapman, from Miami, FL, is a mechanical engineering major who hit .419 for the Engineers.

Three other athletes have been named to the GTE CoSIDA Academ-
ic All-District teams. Tennis play-
er Jay Muellhoefer and Valerie Tan have been named to the first team in the At-Large category, and Jeff Bredice, a wrestler, is a second team all-district selection. Muellhoe-
fer, of Dayton, OH, and Tan from Singapore, will now appear on the national ballot in the At Large category. Tan is a biology major while Muellhoefer and Bredice, from Sioux City, IA, are mechanical engineering majors.

MIT crews returned from the Intercollegiate Rowing Association Regatta in Syracuse, NY, recently with a silver medal to show for their efforts. The Open Four with coxswain second to the Naval Academy in its event covering the 2,000 meter course in 7:18.2. The coxswain was sophomore Anand Raghavan of Nashville, TN; freshman Charley Ashby of Bozeman, MT, was in the bow. David Spielvogel, a junior from Honolulu, HI, manned the second seat; and sophomore Victor Venkel from Albuquerque, NM, in the third seat.

The stroke was Dan Dunn a junior from Cambridge, MA. The final Division III men’s tennis rankings have been released by the Intercollegiate Tennis Association, and MIT’s doubles team of Jay Muellhoefer and Nick Tsai finished fifth in the nation. Muellhoefer, from Dayton, OH, and Tsai, of Okemos, MI, are both members of the Class of 1994. Additionally Muellhoefer earned a final ranking of 31 in sin-
gles competition.

Athletes named to teams

In late May, three baseball play-
ers were named to the GTE CoSIDA
DA Academic All-District second team. Pitcher Rob Lupack, infielder Brian Christensen and outfielder Jon Gass were selected. Leon, a junior from Cincinnati, OH, compiled a 6-4 record with an earned run average of only 2.84. He is an electrical sci-
ence and engineering major. Chris-
tensen, a senior mechanical engi-
neering major from Weymouth, MA, led the team in hitting with a .355 batting average, hit (38), and second in RBI’s (23). Gass is a chemical engineering major and hit .296 over the course of the season. The senior from Randolph, MA, was first on the team in hits (108) and second in runs scored (23).

Also in late May, the Constitu-
tion Athletic Conference 1993-94
All-Scholastic Team was announced and four MIT athletes were on the six-man, 12-player squad. Junior shortstop Jason Grapski of Fairfield, CT; cross country runner Jerry Fait of Ashland, WI; golfer Frank of Indiana, PA; and baseball player Jeff Olsen from River Forest, IL were each named to the team. All four athletes are seniors.

Pilgrim Lacrosse League All-
Stars were announced and MIT’s two co-captains made the squad. Mi-
ffielder Ryan Blanchette, a senior from Orland, CA, and junior defenseman Chris Berg from Rockville Center, NY, were each selected by the League’s coaches.

MIT longsucker Nolan Duffin, a senior from Burke, VA, was named to the 1993 Sigma Alpha Epsilon All-America football team. Duffin led the Engineers in tackles each of the last two years and was a GTE CoSIDA second team Academic All-American for the 1993 season.