UA Election Results Delayed by Appeals

By Frank Dabek

The results of this year's Undergraduate Association elections have been tabulated but will not be released until next week while the UA judicial review board settles appeals stemming from the election. The delay results, in part, from an appeal of a ruling made by the election board on the actions of Paul T. Oppold '99 in his campaign for UA president.

As reported in the March 10 issue of The Tech, Oppold's campaign faced criticism for running false campaign statements on the constitutionality of decisions made during the course of the election, Viswanathan said. The board may make a recommendation to the UA president about what actions are appropriate following its decision, but it will not have the final word on what, if any, actions are taken.

Current UA President Dedric A. Carter '98 said that it "would be up to the executive committee to adopt a course of action following the decision of the review board. Outcomes of that decision range from the possibility of having a new election to going with the election as it is."

Delay to preserve election process

Carter said that while the UA is elections, Page 14

Biomaterials Focus of Langer's Killian Talk

By Venkatash Satlsh

Killian Award recipient Robert S. Langer, ScD '74, the Germsheinstein Professor of Chemical and Biomedical Engineering, delivered the annual Killian Award Lecture on the topic of "Biomaterials and How They Will Change our Lives."

Now in its 26th year, the Killian award is presented to a faculty member for outstanding professional accomplishments. It commemorates former Institute President and Chair of the Corporation James R. Killian, Jr. '26.

The committee that selected Langer said that he was recognized because of his contributions to the fields of drug delivery, artificial organs, and angiogenesis. The committee described him as an "outstanding scientist with a driving, boundaryless energy, and prophetic vision; an excellent teacher; and a superb human being."

In a brief introduction preceding the lecture, Chair of the Faculty Lotte Ballyn noted that Langer’s work may supplant the need for implants. Langer followed with a presentation summarizing the innovations in the field of material science that relate to medical and biological applications.

Langer discusses advances

One major innovation Langer addressed is the design of polymer materials to precisely control diffusive properties. By altering their pore structures, materials can be used to regulate the delivery profile of drugs, Langer said.

Instead of giving patients bursts of drugs, clinicians may now provide steady doses over longer periods of time, Langer said. This option reduces the chance that patients will suffer serious side effects.

When Langer first presented his findings at a talk in the 1970s, "all the polymer scientists and engineers said ‘We don’t believe a word you said.’" As those scientists later repeated his work, Langer said he was able to convince them that he was right.

"One of the things I’ve watched is that the materials used in medicine... are off-the-shelf products" grabbed by clinicians for specific applications, Langer said.

"The material used to make the artificial heart was originally used in ladies’ gloves, Langer said. Dialysis tubes were made with material originally used for sausage casing. Langer said that while these products worked well, he felt that the application of scientific knowledge would yield significant improvements.

Langer invented a way to extend the lives of brain cancer patients.

\[ \text{Langer, Page 11} \]

Student Volunteers Journey to China To Wire Schools for Internet Access

By Sharrin Ghaznavi

Twenty-five MIT undergraduates will travel to China this summer as part of the MIT-China Educational Technology Initiative (MIT-CTI) program. Interns will go to ten high schools in four cities: Beijing, Shanghai, Xian, and Hangzhou. Over the course of six weeks, these students will set up interactive educational websites and help five of the high schools connect to the Internet.

This connection to the Internet will allow high schools to tap into the educational possibilities provided by the Internet and increase communication with students in other countries. Among the projects the interns have in mind are an International Scavenger Hunt and a Virtual Classroom.

The International Scavenger Hunt will involve communication between the high schools in China and high schools in Canada, England, and Brazil. To obtain clues in the scavenger hunt, students will be required to contact students in the other three countries.

The Virtual Classroom will be a text-based web site where students will be able to carry on classroom discussions, do homework, and obtain information concerning college entrance examinations.

Other plans include establishing Internet pen pals with high school students in Pennsylvania, an international cooperation.

China high school network, and conferences on the educational uses of the Internet.

Technology Binds Students

MIT-CTI, now in its second year, was started by Jacob J. Seid G and Ronald Cai MEng '97 to build cross-cultural understanding between younger generation Chinese and American students through the development of computer-related educational projects.

"We believe this program provides a bridge between Chinese and American students and allows them to learn about each other," Seid said.

\[ \text{China, Page 15} \]
Bighorn Sheep Will Be Declared an Endangered Species

LOS ANGELES TIMES

Bighorn sheep that inhabit Southern California's desert mountains and foothills, including prime real estate in the Palm Springs area, will be declared an endangered species early next week, the U.S. Fish and Wildlife Service announced Thursday.

The decision culminates more than a decade of research that shows the sheep's population and range have declined sharply after being relatively stable for decades. The species was once widespread in the desert, but the population has dropped dramatically in recent years because of habitat loss and potential overgrazing by cattle and sheep.

An estimated 280 Peninsula bighorn sheep existed in the wild last year, down from about 1,200 in 1971 and about 600 in 1991, according to the Fish and Wildlife Service.

"This may be the only large mammal that has been listed in Southern California," said Peter Sorenson, the U.S. Fish and Wildlife Service's field supervisor for the California desert.

The decision to invoke the Endangered Species Act to protect the sheep is expected to have little impact on land use in the region, according to the Fish and Wildlife Service.

Bighorn sheep are highly visible animals that are often seen in the desert, but their range is limited to high-elevation areas that are not readily accessible to the public. The species is also considered a conservation symbol for Southern California's desert ecosystem.

The listing of the bighorn sheep as an endangered species is expected to trigger further efforts to protect the species and its habitat, including the development of conservation plans and enforcement of regulations to protect the species.

Nasdaq Amex Consider Merger
In Major Blow to the NYSE

By Bret D. Fromson

THE WASHINGTON POST

The National Association of Securities Dealers, which runs the second-largest U.S. stock market, is discussing a merger with the struggling New York Stock Exchange, several sources said, an effort to reshape an industry that has been struggling to attract investors and execute their buy and sell orders.

The Nasdaq, which has a much lower market value than the NYSE, is considering a variety of options, including a merger or a partial sale of the exchange to the NYSE. The NYSE has been looking for a way to boost its market value and attract more investors.

The Nasdaq, which is also considering a merger with the London Stock Exchange, is looking for ways to reduce its costs and increase its market share. The NYSE, which has been struggling to attract new investors and execute buy and sell orders, is also looking for ways to increase its market share.

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**Finding Sheds Light on Prehistoric Farming in Americas**

Researchers have discovered a surprisingly large farming village in northwestern Mexico that was inhabited at least 3,000 years ago—2,000 years earlier than any other site of such scale in the region—the scientists announced Thursday.

The archaeological evidence from the site, called Cerro Juanaquena, supports a new view of how humans first adopted farming as a way of life in Central and North America, experts said.

The research, published Friday in Science, strongly suggests that these ancient people of the Southwest had settled into large, well-constructed communities to till a variety of crops, at a time when scholars previously had thought that only small roving bands of hunters held sway in the region.

Moreover, it appears that these prehistoric people pursued farming well before the introduction of maize or squash, which were key crops in the ancient Americas.

Bruce D. Smith, an authority on early agriculture at the Smithsonian's National Museum of Natural History, called it "the latest in a decade-long string of surprises" about prehistoric farming in Mexico and the Southwest United States.

"The thing that stands out the most is the scale of the settlement," Smith said. "More than resolving questions, it opens up a whole new area for agricultural research."

**Worldwide Celebrations of Pi Will Go On and On, More or Less**

This Saturday, thousands of people around the world will unite to sing songs, recite poetry, perform bizarre rites and eat ritual food in honor of their favorite number.

The number is π, 3.1415926535... ad infinitum. It's the number you get when you divide the circumference of a circle by its diameter, and it can't be expressed as a fraction. It goes on forever.

Such so-called "irrational" numbers seemed so offensive when they were first discovered by the early Greeks, according to some accounts, that people were actually murdered for letting out the secret of their existence.

The variety of celebratory modes is almost as long as π itself, with dozens of Web sites devoted to the number's devotees—or piets, as they are called. Posted, along with formulas for calculating π, are pi carols, poems and other utterly useless bits of π trivia for honoring the day. At the Exploratorium science museum in San Francisco, the faithful usually gather around the "π shrine," a small brass plate (a π plate, you might call it) engraved with π to a hundred digits along with other obscure mystical symbols.

"We circumambulate the shrine 3.14 times," said Exploratorium scientist Ron Hipschman.

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**CLASS OF 2000**

**Ring Sale**

March 13th, (Fri.)
March 16th - 18th, (Mon. - Wed.)
10:00 A.M. - 4:00 P.M.
Lobby 10

**THE “BRASS RAT”**

“KEEPS ON GOING AND GOING AND GOING...”
Publicity Poor For Visiting Committee

In your article “ODSUE Visiting Committee Consults Students, Prepares Final Report,” [Mar. 6] Dean of Students and Undergraduate Education Rosalind H. Williams claimed that the meeting was held on Wednesday, March 4 was well-publicized. In a sense that is true, but in another, more accurate sense it is not.

Dean Williams advertised places in The Tech on two such an ad. It something that the ODSUE Visiting Committee was coming. Rigorously, there was no mention of what ODSUE is, or even of what the initial stands for. Needless to say, the ad was not particularly compelling. Perhaps Dean Williams should reconsider why students did not attend the meeting.

James P. Sivaraj G

IS Plans New Multimedia Options

Justin A. Kent '00 wrote to complain about the absence of graphics and multimedia equipment in Athena clusters ["MIT Looks Adequate Computer Tools."] Mar. 6]. I'm writing to assure Justin and others that Information Systems is currently working to remedy this.

Since the spring of 1997 we have been members of the New Media Centers Consortium, a group of colleges and universities that work with hardware and software vendors to bring media tools to campus computing environments. IS had hoped to have a new cluster/classroom of multimedia equipped machines (complete with color scanners, video digitizers, and a variety of software) ready by January, but due to campus construction delays, the room IS was allocated has not yet been vacated. IS has been told that the current occupants will be out in April. Once ready, this facility will be used as a classroom during the day but will be open to students during staffed evening hours.


Response

Chief of Staff Michael J. Ring '01.


Letters To The Editor

In addition to that cluster/classroom, we are already operating a small New Media Center lab in our new offices on the lower level of Building N42. This facility is primarily for the use of faculty and teaching assistants, but since the cluster is not yet ready, students can also reserve time on the machines for course-related use. Students who would like to know more about the MIT New Media Center or reserve time on the equipment should see our web page at http://web.mit.edu/newmedia/.

Katie M. Livingston
Director, New Media Center

Athena Wastes More than Time

The proposal to solve student time pres-

sure in Sunkavalli '99, "[Student Center Express, March 10]" misses an essential point that I have observed through-our stay at MIT: The average student who takes the elevator to the fifth floor of the Athena cluster to surf the Web, exchange e-mail, zephyr with friends, or play games. Obviously, these activities decrease efficien-

cy, since students are diverted from their academic tasks.

I have experimentally observed, although not quantitatively measured, that the time effectively spent in an Athena cluster is very often longer than anticipated. Therefore, an express elevator that may save a few seconds per trip would encourage students to go to the Athena cluster and devote more time to leisure activities.

It seems obvious that keeping the "slow, deceptively" elevators or even reducing their speed would be an efficient method to deter students from going to the Athena cluster, thus letting them focus on their academic tasks.

If Mr. Sunkavalli continues his research on such a fascinating topic, it will be a serious candidate for the Ig Nobel prize.

Liz Garcia-Delgado G

Editorial

The Editors of The Tech are written by A. Bittker, chair, managing editor, executive editor, news editors, and opinion editors.

Dissenters are the opinions of the signed members of the editorial board. The editor in chief, managing editor, executive editor, news editors, and opinion editors are the members of the editorial board.

Letters must bear the authors’ signatures, addresses, and phone numbers. Unsigned letters will not be accepted. No letters will be run anonymous without the permission of the chairman, editor in chief, managing editor, executive editor, news editors, and opinion editors.

Letters to the editor are encouraged and may be sent to letters@the-tech.mit.edu. Hard copy submissions are accepted as well, although e-mail is preferable. Hard copy submissions may be addressed to The Tech, P.O. Box 97029, Cambridge, Mass. 02139-7029, or sent by interdepartmental mail to Room W20-483. All submissions are due by 4:30 p.m. two days before the date of publication.

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Copyright Versus Patent in the Digital Age

Guest Column
Catherine Preston

I have been thinking about the Microsoft monopoly issue for some time. This is mainly because I am a die-hard Macintosh fan, and it still irks me that a more cumbersome, less elegant operating system manages to dominate the market, but it is an absolutely crucial one.

It is true that Microsoft has an even larger market share than Apple, but Microsoft's dominance has been achieved by monopolizing the VCR business, not by dominating the video tape business as well, where Sony's VHS has an even larger market share. Microsoft's dominance is achieved by monopolizing the video tape business as well. If anyone wanted to create a video tape to look as good as Sony's, they would have to ask Sony to produce the tapes. The movie producer would have to pay a much larger amount for significant factors in choosing what movie to watch than it is today.

This is precisely what has happened with operating systems. The operating system is a product of the computer, and it is written in code instead of circuit design, it is copyrightable. It is the arena in which all software applications - word processing, games, spreadsheets or anything else - must compete. It is precisely analogous to the video tape business.

It is true that Microsoft has an even larger market share than does Microsoft. It was patented, not copyrighted. The way an operating system is a dominant system, to the exclusion of all other video tape formats in the U.S. But the key point here is that the company makes proprietary video tape recorders, not Microsoft, not a third party.

Therefore, it is not surprising that more and more people are switching over to WordPerfect and Lotus 1-2-3. It is not surprising that Netscape is concerned about Microsoft's dominance, and it is not surprising that Netscape is concerned about Microsoft's domination of the operating system market, and the patent on which Microsoft will have to go to Microsoft, not a third party.

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erst is an unusual Omnimax docu-
mantary in that it features something
previous movies were lacking — a
-story. If you recall even the excellent
movies like Yellowstone or The Living Sea,
you will remember a collection of spectacular
shots connected only by the fact that they
were all taken in approximately the same geo-
ographical locale. This is not the case here.

The movie tells the story of an expedition
climbing Mount Everest. The mountain's
name, by the way, is inherited from the days
of the British Empire, when Nepal explorer
General Everest "discovered" it, replacing the
native name of Chomolungma. Everest is the
highest mountain in the world, with a height
of 29,028 feet high. Because of tectonic plate
movement, it is growing approximately 4 mil-
limeters each year.

The story of the climb works extremely
well since it has a natural development arc. As
it gets harder and harder to climb the higher
they are, tension builds in this first-rate adven-
ture. There are dangers at every step: huge ice
flows, steep inclines of bare rock, deep
crevasses, turbulent storms, frigid tempera-
tures, and — perhaps most dangerous — lack
of air. It takes time for the heart to compen-
sate for the lack of oxygen by increasing the
breathing and heartbeat rates and by produc-
ing more oxygen-carrying red blood cells.

The story is not just about the physical
adventure. There are dangers at every step:
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ing more oxygen-carrying red blood cells.

Regarding the Omnimax camera, which
is used throughout the film, it's important to
note that the camera is not used in every shot.
There are many shots where the camera is
not used at all. The Omnimax camera is used
only in certain shots where it is necessary to
get close-ups of the mountain or the climbers.

The movie is directed by Jim Atwood, who
has directed several Omnimax documentaries
before. He is well known for his ability to
convey the majesty and beauty of the
mountain environment.

There are a few things that could have
been done better in this film. The shots of the
summit itself make it look just like a pile of
snow in your yard (although I presume that
the overwhelming scale of the peak can not be
conveyed even by the Omnimax camera); the
sequence of a dramatic helicopter rescue is
obviously a re-enactment clearly because it is
filmed from another helicopter; and narrator
Liam Neeson has a low, husky voice, just like
all the other men on the climbing team, so it's
frequently impossible to determine the source
of the voice-over (they should have gotten a
female narrator).

But these are just minor gripes; everything
else combines to make Everest perhaps the
best Omnimax movie ever. It frequently feels
like an Indiana Jones adventure. It offers exot-
ic locales, harrowing adventures, and most
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ic locales, harrowing adventures, and most
importantly, a gripping story.
Amidst the Horror; Nil
Characters Keep Dignity

Nil by Mouth, from Page 6

stand the wounded human behind the monster. And we can then sympathize with Valery's agonized decision about whether to leave him or not. Nil by Mouth is not for the faint-hearted. The events in the film pretty much run the gamut of horrible things people can do to one another. Everyone's speech is a constant stream of profanity, from the 20-something Billy to Valery's 60-year-old mother. The movie could have been improved with a little more focus on the positive aspects of their life instead of wallowing in the exploitation. In one scene the camera gazes unflinchingly as Billy desperately shoots up several rounds of heroin. In this, and other cases, less might have been more.

Is this an authentic portrait or is it more a compressed, hyper-real exaggeration of the problems that routinely face the working poor? If this movie really reflects the reality that Gary Oldman experienced growing up, it's amazing that he was able to break out of the poverty cycle and become a success. But, of course, that may be part of the point. The really fresh thing about Nil by Mouth is the dignity it invests in its characters, without playing down their gaping flaws. These are a bunch of losers, in life and in love, and yet we see the down-to-earth affection that passes between them. Much of the credit for this goes to the remarkable cast, who don't have a false moment between them. If you can stomach the heavy drug use, violence and profanity, there is a lot in this movie that is worth recommending.

Eric Clapton provides the bluesy score, which is notable for its sparseness and restraint.

What are you doing tonight?

Come to the
Screw Your Roommate Dance!

Bring your date or just come!

All MIT Students Welcome
(MIT ID required)

Lobdell • 9 pm - 1 am

sponsored by the Class of 2001
THE STORY SO FAR: When reports surfaced that an investor in her firm had mob ties, Mariko Tamba, Rhino-Man's girlfriend, committed suicide. She died in his arms.

If you value your life, you will leave here immediately.

If you value your life, you will leave here immediately.

I'm off to Elbonia, the land of waist-deep mud and misogyny.

ON THE PLUS SIDE, YOU CAN KICK PEOPLE AND BLAME IT ON THE MUD WEASELS.

WHAT'S WRONG, YUGI? ONE SECOND YOU ARE COMPLIMENTING THIS CHICK, NEXT SECOND SCREAMING.

WE TRY TO WEAR HUG CLAMPS TO EACH EMPLOYEE'S HEAD.

WE ATTACH HUG CLAMPS TO EACH EMPLOYEE'S HEAD.

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WE TRY TO WEAR HUG CLAMPS TO EACH EMPLOYEE'S HEAD.
I. Page 10

March 13, 1998

Trivia Corner

The Name's the Same

Congratulations to Aaron Tustin and John Richard who both knew that the name John Adams was shared by a HMS Bounty mutineer, an English astronomer, an opera composer, and a president of the United States, none of whom were related. Incidentally, "Grizzly" Adams, a mountain man who captured and trained large animals and was the subject of a late seventies television show, also had “John” as his first name.

Aaron and John each win a pair of tickets and a large popcorn, both provided by LSC.

Showing this weekend:

Friday 7:30 p.m. in Room 10-250
The Great Race

Friday 7 and 10 p.m., Sunday 7 p.m. in Room 26-100
Alien: Resurrection

Saturday 3, 7, and 10 p.m., Sunday 10 p.m. in Room 26-100
Flubber

This feature was brought to you by the CAC Program Board. Today's factoids are provided by the MIT Quiz Bowl team.

ACROSS

1 Plateau
5 Everywhere: prefix
6 Body protection
7 Yokey
9 Color of fromage?
10 Fuel
12 German city
14 Engine seize
18 Room or ocean
20 Aged
23 Concerning
25 Chose
28 Ointment, for example
29 Moulins
30 Quaker
31 Feed
32 Animal Doc
33 Du Pont synthetic
35 Senior
39 Get the three count
40 Slide, with into
41 Scottish boys
42 Some of these are dry
44 Make a mess
45 Suffix with hip and road

DOWN

1 Where Quincy, M.E. works
2 Television award
3—one
4 Mostly composed of Nitrogen
5 Ice and Bronze
7 Sufferer Emile
8 First person past singular of to be
9 Good, _, best
10 The sun, for example

Kurt Salmon Associates is the world's largest management consulting firm specializing in the retail and consumer products industries. Our clients are manufacturers and retailers of a wide range of personal, home and recreational consumer products, such as food, clothing, footwear, home improvement products, housewares, sporting goods, and magazines.

We are looking for consultants to join our Logistics Group, which designs and implements methods that maximize our clients' distribution effectiveness by combining new technology with an ever-skilled and motivated labor force. Consultants will provide a full range of services to clients including strategic planning, facility design, distribution systems and productivity enhancement. We look forward to talking with you about careers in consulting when we visit MIT! Please consult Career Services for more details.

Please stop by our information session on March 16, 1998 and meet our Logistics Consultants!

KSA will be interviewing at MIT on March 17, 1998.
Conference Links Service-Oriented Students and Health Professionals

By Noemi Giszpenc

"Change the world!" boomed Robert Lewis, Jr., Executive Director of City Year. He was the last, but not the least, of five panelists addressing 150 undergraduates from ten universities at a regional conference called "Service, Policy, Leadership: Meeting the Needs of a Child," sponsored by project HEALTH (Helping Empower, Advocate & Lead Through Health) and the Institute of Politics at Harvard (IOP).

The one-day conference took place Saturday, March 7 at the IOP. The purpose was to provide volunteers who work with inner-city children "the opportunity to consider their health as a nexus of social, environmental, and economic factors," according to the brochure for the event.

Conference participants broke into four workshops focusing on nutrition, violence, literacy, and environmental concerns, following presentations and a short discussion period with each of the panelists. After a smaller, informal luncheon discussion, people attended an afternoon workshop on one of the four topics.

Various project coordinators then set up displays at a service fair. The participants heard about a number of programs. Despite this proliferation, the project HEALTH's 18 student-run programs, including Project Bread, City Year, and Reach Out and Read, in addition to Project HEALTH, is just the tip of the iceberg... it is my hope that we'll be able to progress further and that these [advances] will help alleviate suffering and prolong life," Langer said in his concluding remarks.

This is just the tip of the iceberg... it is my hope that we'll be able to progress further and that these [advances] will help alleviate suffering and prolong life," Langer said in his concluding remarks.

At various times, experts in the field expressed doubts that polymers could be synthesized and said that they were fragile and toxic. Langer found better synthesis methods and approached the situation as an engineering design problem, changing the way the field was viewed.

Langer's Work Affects Tissue Engineering

Langer, from Page 1

Langer said that these techniques could soon be used to grow yet other organs. He showed a graphic picture of a child suffering from liver failure, noting in the past that "to help someone like this meant someone else had to die." With advances in tissue engineering, these patients would no longer be reliant on the overextended organ donation system, he said.

"This is just the tip of the iceberg... it is my hope that we'll be able to progress further and that these [advances] will help alleviate suffering and prolong life," Langer said in his concluding remarks.

Langer has collected 265 patents, has published 512 articles, and has won 50 major awards.

What's for Dinner at Walker Hall

Friday, March 13

Broiled Salmon
Baked Potato
Side Garden Salad
Roll & Butter
$7.95

If the Islands are not in your Spring Break plans...

... Earn some extra $Money$ by Temping!

- Earn $9 - $14 per hour
- Gain Valuable Experience at Boston's Most Prestigious Firms
- Work in the City or the Suburbs
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Setting the Hire Standard

ATTENTION SENIORS

POSITION AVAILABLE IN THE ADMISSIONS OFFICE, AS AN ADMISSIONS COUNSELOR

The Office of Admissions is now accepting applications for the position of Admissions Counselor. This is a one-year full-time position beginning in July, 1998. Duties include:

- conducting question and answer sessions
- interviewing prospective applicants
- visiting secondary schools
- coordinating MIT student involvement in events
- participating in admissions committee decisions

Applications are available in the Admissions Office, 3-108, with Millene Hahn and should be returned no later than April 1, 1998.

Note: This is for 1998 (January or June) MIT graduates.

Savvysoft, a small, fast growing 4 year old software house has full-time and summer opportunities in software development, client pre-sales support and technical writing.

QUALIFICATIONS: BS in CS, engineering (preferably electrical) or math. Experience in C; knowledge of UNIX and proficiency in math. Some background in finance and cutting edge computer technology is preferred but not required. Creative and innovative self-starters with excellent verbal and written skills, coupled with strong analytical and technical skills are strongly urged to apply.

CORPORATE PROFILE: Based in downtown New York City, Savvysoft develops, markets and sells software domestically and internationally, to investment banks, money managers, insurance companies and treasurers. Our offices are collegial, with great views and fun people.

Compensation is generous and highly competitive.

FAX RESUMES TO (212) 425-8677

WEAR JEANS TO WORK

Savvysoft, a small, fast growing 4 year old software house has full-time and summer opportunities in software development, client pre-sales support and technical writing.

QUALIFICATIONS: BS in CS, engineering (preferably electrical) or math. Experience in C; knowledge of UNIX and proficiency in math. Some background in finance and cutting edge computer technology is preferred but not required. Creative and innovative self-starters with excellent verbal and written skills, coupled with strong analytical and technical skills are strongly urged to apply.

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Compensation is generous and highly competitive.

FAX RESUMES TO (212) 425-8677
March 13, 1998

Arts

Airline

Bankers Trust Performance Center

The Palladium

Prominent Music

Chow Down

Concerts

Mar. 22: John Brown's Body,
Mar. 16: Blanks 77, Against All Brooklyn Bums, The Agents.
0576.
Mar. 14: Allstonians, Big Bad
Apr. 18: Chapter in Verse, with JD McPherson, and the World.
Apr. 3: Percy Hill.
Apr. 10: Spring Funk Fest, featuring Headhunters and the Tribe.
Apr. 14: Funk Music Festival, featuring Mark Farner, Fit for a King, and the Isley Brothers.

Concerts and Plays

Tickets: 423-NEXT. Information: 679-9321.

The Orpheum Theater

Mcintyre, reeds; John -Kordalewski, percussion; John Dill, drums; John Cowan, bass; Tim Carbone, banjo; Dave Begin, washboard; Rich Mersiovsky, drums; Desi S curvature, violin; Dave Suchar, flute; Kate Jacobson, vocals; Family Groove; and Earth and Sky.

Jazz

Jazz at Harvard

Jazz Club
124 Boylston St., Boston. Tickets: 933-4444. Tuesday through Sunday, 10 a.m.-8 p.m.; Sun., noon-5 p.m. Admission $2, $1 for students below 18.

Museum of Fine Arts
260 The Fenway, Boston. Tickets: 267-9300, 934-3400. Tuesday through Sunday, 10 a.m.-5 p.m., last entry at 4 p.m. Admission $5 per person, $5 for students, $3 for seniors, $1 for children under 18. Free admission on the first Sunday of each month. 

Museum of Science
245 Chestnut St., Boston. Tickets: 733-2500, Daily, 9 a.m.-5 p.m., Fri. and Sat., 9 a.m.-9 p.m., $8 general public; $7 for MIT students and staff. "Light Sculptures by Bill Parker"; "Cantabile: March–29." "Ode to Joy," featuring Lila York's thunderous Irish tribute to an Irish dance tradition. "Body Electric," featuring Lila York's electrifying Irish tribute to an Irish dance tradition. "The Art of Africa, Oceana, and the 16th and 17th Centuries"; "The Classical Walks" begin at 11:30 a.m. on March 18 and 19. Tickets are $22 to $52; $5 for students, $3 for seniors, $1 for children under 18.

Science Museum
1401. Tuesday through Sunday. Admission $5, $3 for students, $2 for children. "Earth and Sky," an educational program featuring the latest in space exploration.

Traveling the Information Highway:
On display on the first and third weekends of each month. Information: 496-HRGS. Tickets at Sanders Theatre Box Office, 45 Quincy St., Cambridge. Admission $10 for students, $15 for adults.

The Roxy
57 JFK St., Cambridge. 864-1227. Tuesday through Friday, 10 a.m.-8 p.m.; Sun., noon-5 p.m. Admission $2, $1 for students below 18. "Amazing Personal Computer"; "People and Computers," an exhibition of the wonders of the computer world.

Theater

Boston Symphony Orchestra
Professional couple with secondary
ovarian failure seeks a woman to help them have a child through egg donation or surrogacy.

Selling your $3,500 + expenses. Your help is greatly appreciated. Please call 1-800-886-9373 ext. 6768.

Colloid Engineers and Scientists

We have multiple openings in the area of colloid engineering and chemistry to develop novel inks for electronic ink displays. We desire people with skills in one or more of the following: processes for the production and stabilization of colloidal systems; expertise in the chemical and physical modification of colloidal surfaces; nonaqueous colloids; or the formulation of paints and coatings in highly-loaded systems. MS/Ph.D. in chemistry or chemical engineering.

E Ink is a highly visible start-up founded by MIT graduates to revolutionize print media. We are developing novel displays by printing proprietary electronic inks onto all kinds of flexible and rigid surfaces. Our technology has the support of leading corporations and has been described in major publications worldwide.

If genuine innovation interests you, we have immediate openings for creative, energetic people in courses 2, 3, 5, 6, 8, 10 and 18.

Product Design Engineer

Design, engineer, and build devices based on electronic ink. We are looking for a creative and energetic, hands-on person to help create product prototypes. Strong skills in product design and development are required, as is knowledge of electronics, materials, and optics. Experience in prototyping and manufacturing are a plus. BS/MS in chemical engineering or equivalent.

Chemists

Join our research team in developing microencapsulation processes and materials for electronic ink. Background in organic chemistry (synthesis plus characterization). Must be able to work across traditional boundaries, with the ability to create and evaluate innovations in electronic ink displays. Experience with microencapsulation is desirable but not necessary. BS/MS in chemistry or chemical engineering with 3+ years of experience preferred.
**Undergraduates needed**

To participate in meetings for newly admitted students during Spring Break 1998 in the following locations:

<table>
<thead>
<tr>
<th>State</th>
<th>City</th>
<th>Meeting day</th>
<th>Meeting Date</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>CA</td>
<td>Los Angeles</td>
<td>Saturday</td>
<td>3/28/98</td>
<td>9:00am-10:00am</td>
</tr>
<tr>
<td>CA</td>
<td>Anaheim</td>
<td>Thursday</td>
<td>3/26/98</td>
<td>3:00pm-5:00pm</td>
</tr>
<tr>
<td>CA</td>
<td>Santa Barbara</td>
<td>Sunday</td>
<td>3/29/98</td>
<td>12:00pm-2:00pm</td>
</tr>
<tr>
<td>CA</td>
<td>San Francisco</td>
<td>Saturday</td>
<td>3/28/98</td>
<td>2:00pm-4:00pm</td>
</tr>
<tr>
<td>CA</td>
<td>San Diego</td>
<td>Thursday</td>
<td>3/26/98</td>
<td>6:00pm-9:00pm</td>
</tr>
<tr>
<td>CT</td>
<td>Fairfield County</td>
<td>Wednesday</td>
<td>3/25/98</td>
<td>8:00pm-10:00pm</td>
</tr>
<tr>
<td>DC</td>
<td>District of Columbia</td>
<td>Tuesday</td>
<td>3/24/98</td>
<td>7:00pm</td>
</tr>
<tr>
<td>FL</td>
<td>Fort Lauderdale</td>
<td>Sunday</td>
<td>3/22/98</td>
<td>3:00pm</td>
</tr>
<tr>
<td>GA</td>
<td>Atlanta</td>
<td>Thursday</td>
<td>3/26/98</td>
<td>7:00pm</td>
</tr>
<tr>
<td>MA</td>
<td>Worcester</td>
<td>Monday</td>
<td>3/23/98</td>
<td>6:30pm</td>
</tr>
<tr>
<td>MA</td>
<td>Cambridge</td>
<td>Saturday</td>
<td>3/29/98</td>
<td>2:00pm</td>
</tr>
<tr>
<td>MD</td>
<td>Baltimore</td>
<td>Wednesday</td>
<td>3/25/98</td>
<td>7:30pm</td>
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<tr>
<td>MO</td>
<td>St Louis</td>
<td>Saturday</td>
<td>3/28/98</td>
<td>2:00pm</td>
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<tr>
<td>NJ</td>
<td>Northern New Jersey</td>
<td>Thursday</td>
<td>3/26/98</td>
<td>7:30pm</td>
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<tr>
<td>NJ</td>
<td>Central New Jersey</td>
<td>Thursday</td>
<td>3/26/98</td>
<td>7:00pm</td>
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<tr>
<td>NY</td>
<td>Albany</td>
<td>Thursday</td>
<td>3/26/98</td>
<td>7:00pm</td>
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<td>NY</td>
<td>New York</td>
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<tr>
<td>NY</td>
<td>Long Island</td>
<td>Saturday</td>
<td>3/28/98</td>
<td>2:00pm</td>
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<tr>
<td>NY</td>
<td>Rochester</td>
<td>Tuesday</td>
<td>3/24/98</td>
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<td>OH</td>
<td>Dayton</td>
<td>Wednesday</td>
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<tr>
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<td>Cincinnati</td>
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<td>OK</td>
<td>Tulsa</td>
<td>Thursday</td>
<td>3/26/98</td>
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<td>ON</td>
<td>Toronto</td>
<td>Wednesday</td>
<td>3/25/98</td>
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<tr>
<td>PA</td>
<td>Pittsburgh</td>
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<td>3/26/98</td>
<td>6:30pm</td>
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<tr>
<td>TX</td>
<td>Corpus Christi</td>
<td>Tuesday</td>
<td>3/24/98</td>
<td>7:30pm</td>
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<tr>
<td>TX</td>
<td>San Antonio</td>
<td>Wednesday</td>
<td>3/25/98</td>
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<tr>
<td>TX</td>
<td>Dallas</td>
<td>Wednesday</td>
<td>3/25/98</td>
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<tr>
<td>TX</td>
<td>Houston</td>
<td>Thursday</td>
<td>3/26/98</td>
<td>7:30pm</td>
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<tr>
<td>TX</td>
<td>Rio Grande Valley</td>
<td>Saturday</td>
<td>3/28/98</td>
<td>9:00am</td>
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<tr>
<td>VA</td>
<td>Arlington</td>
<td>Saturday</td>
<td>3/28/98</td>
<td>10:00am</td>
</tr>
<tr>
<td>VT</td>
<td>Burlington</td>
<td>Tuesday</td>
<td>3/24/98</td>
<td>7:00pm</td>
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<tr>
<td>WA</td>
<td>Seattle</td>
<td>Wednesday</td>
<td>3/25/98</td>
<td>7:00pm</td>
</tr>
</tbody>
</table>

*Please stop by the Educational Council (4-249) or call (3-3354) for more information.*

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**MIT dates & deadlines**

**Upcoming student deadlines and other important institute dates**

This service is brought to you by the Office of the Dean of Students and Undergraduate Education. If you know of important dates we have missed, please let us know, and we will add them to the deadlines Web site: [http://web.mit.edu/odsue/deadlines/](http://web.mit.edu/odsue/deadlines/)

<table>
<thead>
<tr>
<th>Date</th>
<th>Who</th>
<th>What</th>
<th>Where</th>
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</thead>
<tbody>
<tr>
<td>Mon 3/16</td>
<td>Undergraduates</td>
<td>4th qtr PE lottery begins</td>
<td>Athens: &quot;add petition&quot; (ret)* (xphedu) &amp; (ret)</td>
</tr>
<tr>
<td>Thu 3/16</td>
<td>Undergraduates</td>
<td>3rd qtr PE classes end</td>
<td>Mon 3/23 thru Fri 4/10</td>
</tr>
<tr>
<td>Mon-Fri 3/12-17</td>
<td>All students</td>
<td>Spring vacation</td>
<td></td>
</tr>
<tr>
<td>Mon 3/20</td>
<td>Undergraduates</td>
<td>4th qtr PE lottery ends</td>
<td>Athens: &quot;add petition&quot; (ret)* (xphedu) &amp; (ret)</td>
</tr>
<tr>
<td>Mon 3/20</td>
<td>Freshmen</td>
<td>K. Hodges' contest essays due</td>
<td>7-103, 3-6786</td>
</tr>
<tr>
<td>Mon 3/20</td>
<td>Undergraduates &amp; faculty</td>
<td>Deadline for faculty to nominate students for UROP award</td>
<td><a href="http://web/mit.gov/eng-science-projects">faculty research supervisor</a></td>
</tr>
<tr>
<td>Tue 3/31</td>
<td>Students who missed PE lottery or who want to add another PE class</td>
<td>Deadline for UROP petitions for academic credit</td>
<td><a href="http://web/mit.gov/smp">http://web.mit.edu/smp</a></td>
</tr>
<tr>
<td>Tue 3/31</td>
<td>Undergraduates</td>
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</tr>
<tr>
<td>Thu 3/31</td>
<td>Undergraduates</td>
<td>Deadline for UROP proposals for faculty funding</td>
<td><a href="http://web/mit.gov/org">http://web/mit.edu/org</a></td>
</tr>
<tr>
<td>Fri 4/7</td>
<td>Graduate students graduating in June</td>
<td>Last day to submit or change thesis title (575 late fee)</td>
<td>[Acad. dept.] and D. England, 3SC, 8-6434</td>
</tr>
</tbody>
</table>

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**Class of 1999 Race Under Examination**

"not happy with an appeal... very valid issues have been brought up." It is "better to have the appeal handled and the issue addressed," he said. "Above all there should be a pure election process."

Sandra C. Sandrol '90, current UA vice president and a candidate for UA president, was not disturbed by the delay. "Whatever the judicial review board has to do is necessary," she said.

Campaigning practices in the race for class of 1999 president are also being considered. Raymond W. S. Szeto '99 sent a large number of messages to members of the class of '99 soliciting votes, a possible violation of election rules. According to Bisen-Hersh, "it turns out that [Szego] was not using any algorithm... he was just going through the student directory and writing them really nice e-mails."

Bisen-Hersh told Szeto to stop the mailings but took no other action. Pogo Shukla '99, Szeto's opponent, may have appealed that decision.

Shukla himself allegedly sent unsolicited e-mail in violation of election rules. Bisen-Hersh said that Shukla claimed to know all of the people who received messages from him and was not cited with any violations.

**Changes to EC position possible**

Despite problems with this year's elections, Carter said that he was pleased with the work of the election commission. "The election commission worked very hard," he said.

After the troubles this year, however, Carter said that the "UA will be looking at the entire election process." Changes will be made to make sure that the job of election commissioner is not overwhelming, he said.

---

**Class of 1998 Class Rings**

Available to order in Lobby 10.

Mon, Tue, Wed.

March 16-17-18

10 am - 4 pm

**The clock is ticking...**

It's time to take the LSAT.

The next administration is June 15th. The Princeton Review offers programs that end before your finals and programs that bring you right up to your test date.

Call today for more information. **Beware the administration after the June LSAT is September 26th. This does not allow enough time to prepare when you get back on campus in the fall. Plan ahead and prepare now!**

---

Also classes for the GRE, GMAT, MCAT, and USMLE.
The program started a little less than three years ago by Eid and Cao called the Computer Educational Development Initiative. That program undertook and Cao to China to advance computer aid education to Chinese high schools. Both said they have a deeper understanding of the Chinese people and culture as a result of their experience with CEDI. MIT-CETI is an effort to extend the opportunity to other MIT undergraduates.

The program was advertised to MIT community last fall through open houses and the use of various e-mail lists. There were over 40 applicants. Twenty seven were selected and 25 accepted.

The program was the result of a project started a little less than three years ago by Eid and Cao called the Computer Educational Development Initiative. That project took Eid and Cao to China to advance computer aid education to Chinese high schools. Both said they have a deeper understanding of the Chinese people and culture as a result of their experience with CEDI. MIT-CETI is an effort to extend the opportunity to other MIT undergraduates.

The program was advertised to the MIT community last fall through open houses and the use of various e-mail lists. There were over 40 applicants. Twenty seven were selected and 25 accepted.

Applicants were selected based on four criteria: fluency in the language, technical competency, personal initiative, and interest in education. The last criterion was a new election criteria, "said Eid.

"We've spent [the Spring term] training the students — encompassing technical and planning their project. At the end of the term, the students will have a detailed plan of what kind of web site they want to set up and how they plan to accomplish it," said Eid.

MIT-CETI past and future

In 1997, MIT-CETI interns accomplished a number of firsts: interns set up the first web server at a high school in China, connected a school to the Internet via wireless technology, and organized the first International Sci Day with Sun Microsystems. Interns also held conferences in Shanghai, Beijing, and Xian to bring together students, teachers, government officials, and corporate sponsors to address high school education and the use of the web.

Daniel A. Dwyer '90, and Mandy L. Mobley '99, two MIT-CETI interns in previous years, were coordinators for this year's program. "We're trying to bring interns from the previous year into leadership role this year," said Eid.

"The goal is that each year's interns will become leaders of the program the next year, to help the program continue, said Eid. MIT-CETI is made possible by funding from the MIT-International Science Technology Initiative (MITSI) and corporate sponsors. In 1997 donations from Microsoft Corp., Sun Microsystems Inc., Accton Technology, Addtron, Proxim, Northern Telecom, ZI Corporation, and Anixter totaled over a quarter million dollars.

Several individuals have also provided significant support including Professor of Political Science and Director of MISTI, Suzanne Berger; Deborah Ulrich, administrative director of MISTI; Li Xing, director of China's Educational Research Network; and Zhang Weijang, deputy director of Shanghai's Education Commission.

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Women's Hockey Victorious in Business School Tournament

By Carolyn Phillips

The women's hockey team won first place at the Harvard Business School Hockey Tournament last weekend, recapturing their trophy from two years ago. "It was a great way to end our season," said Assistant Captain Anne Mitzel '99. This year's HBS tournament fielded only three teams after several teams dropped out; however, "that doesn't mean it wasn't challenging," said Assistant Captain Kalpana Mani '99. "Traditionally we've been the favorites, that is 'the ringers' at this tournament. This year we discovered that of the three teams playing, two of them were ringers."

On Friday night, the MIT women played Harvard Business School and crushed them 5-1. Knowing ahead of time they would win, MIT's main objective was to not get worn out for their game the next day.

The only surprise of the game occurred on the opening face-off as Ania Gates of HBS broke out of the pack and netted an unassisted goal. That turned out to be the first and last score by HB. MIT came back strong with five goals over the first and second period. The Engineers then spent the third period resting while running down the time.

The second game was played Saturday morning against the Lowell Lions. "We were not anticipating a strong team," admitted Tony Herman G, who scored a hat trick on Friday, "and it was a little, well, early." The 8:30 a.m. game was won by the Lowell Lions who dominated the first period with three scores on net. The rallying effort by the Engineers in the second and third period was inspirational but the game ended with Lowell winning 5-3. A notable performance from the MIT team was that of Sarah Webster '99, a first year player who scored one of those three goals.

Fortunately, the HBS tournament officials waived the necessity of a second game between MIT and HBS at 7 a.m. the next day, so MIT was rested for the Championship game against Lowell on Sunday afternoon. "I was so psyched for this game," said goalie Sarah Kaplan '01. "This was my tournament and I wanted to win it!" Kaplan, usually a backup goalie for Btee Huning '98, was given a chance to shine as she tended the goal for the entire HBS Tournament.

The MIT team entered the game playing hard and took a 1-0 after one period. Over the second and third period, however, Lowell scored two goals, bringing the score to 1-2. Things were looking bad for the Engineers until Patty Lee '98 sneaked a puck around the Lowell goalie with a minute left on the clock. Regulation time ended with the two teams in a tie and the game went to a shootout. After the first three skaters from each team finished the first shootout in a tie, the referee bumped the overtime period to sudden death. MIT eventually won 5-4 in the sudden death shootout, but not before thirteen skaters were needed from each team to break the tie.

The players on the MIT team who scored during the shootout were Mani, Christina Gehrke '99, and Herman. Kaplan more than proved herself against the 13 skaters from the Lowell team by allowing only two of them to score. "It was here that the MIT team proved its depth over the other team," said Cyara Wu G. "We were able to produce ten strong skaters for the shootout. They had several really talented young women, but then they had others who could hardly stay up on their skates."

The team will be playing their last game of the season against their own alumnae at the rink in the Johnson Athletic Center on Saturday at 2 p.m.