enrollment in EECS reaches ten-year low

By Cameron Rawari

Two hundred and forty-five sophomore majors (25 percent of the class) have declared majors in the Department of Electrical Engineering and Computer Science, the lowest number of Course VI sophomores in over ten years, according to figures supplied by the Registrars Office. This number is a drop of 33 students from last year and 64 from the year before. The "five-week count" of the Class of 1992 showed a slight decline (14) in the number of sophomores in the Engineering and Science departments. Hendricks said that the entire amounted to only $519,142. Another factor influencing the rebate is 7.8 percent decrease from last year's 850. But in 1988 earnings amounted to only $519,142. Hendricks felt that current student concern over the lower rebate is a good thing. "Students have a right to know what goes on, since they, as members, are stockholders," he said.

Education policy proposed redefining the choice of majors to some students. In 1984, CEP proposed benchmarks of 310 for 1984, 310 for 1985, and 350 for 1986, and every year thereafter. The department took some of the other steps taken to ease this overcrowding in include the formation of the physics and electrical engineering (8-A) options that have been permitted to major in the EECS department.

By Niraj S. Desai

Today South Korea was losing a dramatic upsurge in democratic governments and respect for democratic values, declared Political Counsellor Pae-Ik Chung of the South Korea's embassy in the United States. Chung spoke at a colloquium on "The State of Democracy in 1988" sponsored by the MIT Republican Club last Wednesday night.

Chung said that democratic values had become firmly entrenched. "Those outside the mainstream in Korea who join the battle in building democracy," Chung cited popular support in the South Korean as an example of the people's new respect for the government.

Moreover, South Korea's recent move toward reconciliation with the North are a sign of the "confidence of a government with legitimacy" restored in it by democratic election, Chung said. As in Korea, recent developments have moved China closer to a democratic government. But while South Korea had no previous democratic tradition, China has had a long succession of elected governments -- broken fifteen years ago with the military overthrow of President Chiang Kai-shek.

By Linda D'Angelo

Five years ago former Associate Dean of Student Affairs Robert Sherrard committed to paper a five-year plan, including "seven high priority" goals. Much of the plan, with goals ranging from the restructuring of additional graduate housing to the integration of our black fraternity into the IFC system, is far from being realized today.

Some of Sherwood's reorganization plans have been accomplished. The operational and program responsibilities of the West Campus Plaza and Walker have been merged, and the Office of the Dean for Student Affairs has been incorporated into the Office of Minority Education and the MIT/Wellesley Exchange Office and "report to the provost," as Sherwood proposed. But the Career and Placement Planning Office has not been incorporated, as he suggested.

Sherwood wanted to satisfy the "50 percent demand of graduate students for on-campus housing" as well as create a "freaternity row on MIT's campus" to move independent living groups from Boston. Neither of these goals are close to realization, with the construction of some additional graduate housing just underway.

Alpha Kappa Alpha and Alpha Phi Alpha, the black social groups at MIT, have not been incorporated into the IFC system, as he proposed.

Lavon L. M. Lambrino/The Tech

Fall Back!

Daylight savings time officially ends at 2 a.m. this coming Sunday. Don't forget to turn your clock back one hour.

By Dong K. Shin

Today South Korean Political Counsellor Pae-Ik Chung discusses the state of democracy in his country.
Many ODSA goals have not been met

Continued from page 1

Other topics suggested for re-evaluation by Sherwood, such as freshmen residence requirement and the eight term guarantee of housing to undergraduates, have met with little, if any, scrutiny, according to Associate Dean for Student Affairs James R. Tewhey. While an increase in the late cancellation penalty fee is 'now under discussion, no type of many ODSA goals have not been met MIT regarding student housing.

For example, five years ago Sherwood believed MIT should ensure an improvement is not enough to meet the responsibility to constantly bring attention to an issue to see progress, Sherwood felt, again falls mainly on the students, since they "have as much power if not more" than any one office.

Sherwood also felt that MIT should have more resources toward improving student life. The Institute does not "give much respect to the quality of student life," he said. The responsibility for changing this, Sherwood felt, again falls mainly on the students, since they "bear as much power if not more" than any one office.

Since MIT has "the intelligence and the money to make anything happen," the real effort comes in making the "ultimate decision" to go through with a project. Sherwood said. Once the commitment has been made, the goal is as good as set.

Tewhey also felt that MIT and solving them well in advance of major problems. Sherwood added a shift in emphasis from dealing with crisis situations to anticipating possible difficulties and solving them well in advance of major problems.

Sherwood cited the Student Center renovations as a prime example of such action. He commended the Institute for its ability to be "introspective and honest about its flaws" on an academic level. But he felt that the "financial and people resources" necessary for success are not fully committed. MIT suffers from "scorpius," he concluded, and it is up to the students to add an additional push.

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Rubes® By Leigh Rubin

French abortion pill pulled off the market

The French company which pulled an abortion pill off the market said today it may eventually distribute the pill in France.

Reagan charges US embassy in Moscow is "bugged"

State department officials say it will be years before a new US embassy is built in Moscow, President Reagan said today the one that is nearly completed should be torn down because it is crawling with bugs - listening devices planted by Soviet construction workers. The Soviet news agency "TASS" said the bugging allegations are groundless.

Soviet Union changes business policy

The Soviet Union may be about to adopt another basic role of western business: if an enterprise is losing money, shut it down. Moscow's finance minister says a number of western business: if an enterprise is losing money, shut it down. Moscow's finance minister says a number of western business: if an enterprise is losing money, shut it down. Moscow's finance minister says a number of western business: if an enterprise is losing money, shut it down. Moscow's finance minister says a number of western business: if an enterprise is losing money, shut it down. Moscow's finance minister says a number of western business: if an enterprise is losing money, shut it down.

Evidence the economy may be slowing down

The consumer department says Americans' personal income rose a moderate one-half of one percent last month. Personal spending did not change at all from August to September. Linking the two numbers, one analyst says consumers are being more tight-fisted because their incomes are going nowhere.

Quayle speaks on homeless issue

Bush's running mate says homelessness cannot be blamed just on a lack of low-income housing. Dan Quayle says he thinks there is adequate housing in the country. He is asking whether there are more volunteer shelters that can be used to help the homeless.

Sports

Muncie pleaded innocent

Former NFL running back Chunk Muncie pleaded innocent in San Diego today to four drug counts stemming from his alleged attempt to sell cocaine to undercover agents. The US magistrate in the case has set a Monday hearing to schedule pretrial motions. Muncie played a decade of pro-football with the Saints, Chargers and Vikings before retiring in 1985.

Mitchell gets passing record

Although it took a little extra time, college football's one-game record for passing yardage officially belongs to Utah quarterback Scott Mitchell. That is because the NCAA discovered an eleven yard error in the play-by-play sheet, meaning Mitchell will get credit for 631 yards against Air Force on October 15th. The old mark now belongs to Dave Wilson of Illinois who passed for 621 yards in a 1980 game.

Weather

Quiet and cool

A cold front will pass offshore tonight. High pressure will approach the area from the northwest tomorrow. Winds becoming northwest 10-15 mph. Low around 38°F. High around 50°F. Low 38°F.

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Weather

Quiet and cool

A cold front will pass offshore tonight. High pressure will build to our north providing clear skies and cool temperatures through Sunday. Low pressure will approach the area from the northwest Sunday night.

The extended outlook for the next week calls for "stormier" weather and below normal temperatures.

Friday afternoon: Increasing clouds with scattered late afternoon or early morning showers. South-southwest 10-15 mph. High around 54°F. Low around 46°F.

Friday night: Clearing, breezy and turning cooler. Winds becoming northwest 10-20 mph. Low 38°F.

Saturday: Mostly sunny and cool. Winds west-northwest 10-15 mph. High around 50°F. Low 35°F.

Sunday: Increasing clouds with precipitation arriving from the west and south. High 50°F. Low 28°F.

Forecast by Michael C. Morgan

Compiled by Annabelle Boyd

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Forecast by Michael C. Morgan

Compiled by Annabelle Boyd
opinion

Column/Jonathan Richmond

Ethics education must focus on modes of thinking

Second of two parts

During her address at the colloquium, "A HACKER'S VIEW," the Professor of Aeronautics and Astronautics Sheila Widnall '63 proposed educational changes to make MIT students aware of the ethics of their practices. However, her arguments stem from a limited conception of ethics that unfortunately offer few real prospects for improving students' ethical knowledge or behavior.

Widnall rightly insisted that we must maintain high ethical standards in our work at MIT. The faculty has a responsibility to set an academic climate where one is pressured to conform to ethical standards. I doubt, however, that there is much overt dishonesty of the type Widnall refers to at MIT. On the other hand, there is much more subtle dishonesty, which is not necessarily akin to selecting a course or not taking an exam. Every student is exposed to situations that beg attention; to ignore such situations is to neglect issues such as these.

Widnall said that "while I do not believe that the space shuttle disaster was necessarily akin to selecting a course or not taking an exam as cited, in their case, it was a failure to set an academic climate where students better people also concomitantly avoid the large掉了. While engineering departments can teach techniques, the humanities can provide for the human side of things, it can be argued. But it is only when engineering is made to clash directly with its ethical assumptions that real progress can be made.

Widnall cited courses in engineering ethics, stating that "through discussion and case studies, a variety of important ethical issues are discussed. I would think that students would find fascinating such discussions about the professional role and dilemmas of the practicing engineer." The problem with such case studies is that they fail to provide a systematic and rigorous examination of ethical issues fundamental to all engineering practice. Reading case studies where engineers behave in corrupt ways, and discussing how they might have acted better can make one feel good. But doing so does not necessarily provide a way of asking the essential "meta" question of "am I asking the right question?" when dealing with particular engineering approaches or techniques, or instill in students a sense of the ethical presuppositions of engineering inquiry is generally made.

Widnall alleged that courses would not meet the specific needs of each engineering department, and in doing so exposed the lesser "natural" studies to a cultural study than for "hard" engineering. "These not be credit-granting courses, but they could be departmental seminars where practicing engineers and observers of the profession could participate. She gave as an example a seminar her own department might hold on "the systemic and operational questions associated with the space shuttle disaster and the resulting consequences." Such a topic, however, is self-serving, rather than self-examining, for it assumes that the space shuttle program is desirable in the first place, rather than opening to debate the much more important questions of whether that is indeed the case.

Widnall also said that the opportunity exists to "insert ethical issues into our regular courses." The ethics of not resolving an opportunity exists to "insert ethical issues into our regular courses." But such a statement must be carefully examined, for it assumes that the space shuttle program is desirable in the first place, rather than opening to debate the much more important questions of whether that is indeed the case.

Many students would likely defend the failure to remove the defect. The metaphor of "insole" Widnall uses, furthermore, implies adding to something which already exists, rather than rearranging the whole approach to engineering study in general.

What it all boils down to is that ethics is something that is "inconsistent" rather than fundamental, something to study to make one a well-rounded person, just like art or music appreciation, but which sits off to the side, rather than takes center stage in the engineering curriculum.
To the Editor:

I was disappointed that the article "MIT students active in presidential campaigns" (Oct. 21) omitted any mention of students working for the Libertarian candidate, Ron Paul. In addition to students working independently for his campaign, MIT students for Individual Freedom is alive and well and actively supporting the Libertarian ticket. We helped bring Paul on campus last year and have been providing information about his campaign and about Libertarians through our bulletin board and electronic mail.

Despite the lack of media coverage that the Libertarians have been receiving in the 1988 presidential campaign, it is still the fastest growing and third-largest political party in America. In 1984, Ed Clark got nearly a million votes on the Libertarian ticket, and with the disgust many people feel for Bush and Dukakis, the Libertarians are likely to have their best year yet. I think it is a shame that fewer people are aware of the Libertarian position, because many Americans who favor Libertarian ideals don't realize that there is this third option. It has been pointed out many times that Republicans are for violating civil liberties, while Democrats violate economic liberties. With the big spending and greater government compassion coming from the left and right, the Libertarian Party presents the only consistent defense of liberty.

Ellen Sporton '90
President, MIT Students for Individual Freedom

Letters to the Editor are welcome. They must be typed double spaced and addressed to The Tech, PO Box 29, MIT Branch, Cambridge MA 02139, or by interdepartmental mail to Room W20-483.

Letters and cartoons must bear the authors' signatures, addresses, and phone numbers. Unsigned letters will not be accepted. No letter or cartoon will be printed anonymously without express prior approval of The Tech. The Tech reserves the right to edit or condense letters. Shorter letters will be given higher priority. We regret we cannot publish all of the letters we receive.

Opportunities at First Boston

First Boston, a special bracket investment banking firm, headquartered in New York, will be recruiting for its financial analyst program. Positions are available in the Investment Banking, Mergers and Acquisitions, Real Estate, Mortgage Finance, Sales and Trading and Mortgage Product Development Departments. All Seniors are cordially invited to attend a presentation and informal reception.

Presentation:
Wednesday, November 2, 1988
Room 4-153
7:00 p.m.
A reception will immediately follow the presentation.

Interviewing schedule:
Investment Banking: January 25, 1989
Mortgage Product Development:
December 9, 1988 (December grads)
January 25, 1989 (June grads)
Sales and Trading: January 25, 1989

For further information and inquiries, please feel free to contact:
Jasjeet Sood
Camille Gargiso
Investment Banking
Sales & Trading
(212) 909-2131
Mortgage Product Development
(212) 322-7430

Vijay Vaitheeswaran '90
Editor
Microsoft

Distinguished Lecturer

William Gates
Microsoft Corporation

“The Future Goals and Directions of Microsoft”

Tuesday, November 8, 1988
4:30 - 5:30 p.m.
Sloan School of Management
Bowen Hall, E51-329
MIT should require ethics education

(Continued from page 4)

They have long, for example, been critical of utilitarianism (which demands "the greatest good for the greatest number"), an ethical system which, unknown to most engineers, tacitly lies at the heart of work in engineering.

There are already courses in ethics offered by the Department of Linguistics and Philosophy, and they already cover this and other relevant material. They don’t, however, generally apply it to engineering in particular. Philosophers could, however, prepare students to rigorously critique the ethical assumptions of material introduced in engineering courses. Such a course should be required of all freshmen.

What is needed is a course made up of the best of the progressive teaching on technology and ethics which already exists at MIT, and emphasizing the systematic application of moral philosophy to engineering practice. Moral philosophers have long considered the moral implications of different systems for evaluating what is morally good.

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Monday, October 31
6:00–8:00 PM
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Confirm the time and location with your placement office
HE’S THE GURU OF GOOD TIMES!
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We will be interviewing on campus Tuesday, November 15, 1988.

See your Career Planning and Placement Office for more details.

We are an equal opportunity employer.
"One of the great things about working at Microsoft is that it is the center of the microcomputer universe. We get our hands on the latest hardware long before it becomes public; this allows us to define and set future standards in the industry."

— Mike Koss, Software Design Engineer
MIT SM (6-3) 1983

"As a Program Manager I run my own show. I interact with major corporations, design documentation, courses, and actually program to customize our product. I determine the needs of the developers, define the desired product, then work with marketing to distribute the product all over the world. I can’t imagine having the freedom and impact I enjoy here being offered at other organizations."

— Bill Johnson, Program Manager
MIT SB (16) 1988

"Life at Microsoft is really relaxed. There is no drug test, no dress code (really, you can come to work in shorts and a tie-dye shirt), and no security badge. Some programmers go barefoot and some dress up. Every intern or employee can meet and talk with everyone, including Bill Gates. The real world doesn’t have to be that different from MIT.

"There are many projects which would interest an MIT engineer. You can use your 6.004 knowledge of multi-tasking operating systems and semaphores to develop on OS/2, which will match the power of most mainframe operating systems. Any X Windows programmer would be interested in the OS/2 Presentation Manager, which will give real graphics capabilities to microcomputers. Use your experience of Athena's networks to develop OS/2 LAN Manager, a distributed operating system. Anyone who has taken MIT's 6.035 compiler course can expand their experience and work on one of the best optimizing compilers available. You can help change the future of business computing with applications like Microsoft Excel, Works and Word.

"Microsoft = MIT - exams + pay."

— George Hu, Software Development - Intern
MIT (6-3) 1989

"Summer in Seattle is a lot like late Spring in Boston — it's sunny and warm, but not humid. There aren’t too many places in the country where snow-peaked mountains, waterfalls, unpolluted ocean beaches and lakes and undeveloped wilderness are all less than two hours away."

— Eric Berman, Associate Program Manager - Intern
MIT (6-1) SM candidate
U2's latest album, Rattle and Hum, is far from their best

**RATTLE AND HUM**

U2 / Island Records (Atlantic)

By DEBBY LEVINSON

U2 is one of the few bands that can consistently give outstanding live performances. They never fail to deliver, and always avoid embarrassing rock posturing while still delivering a powerful political message. New live songs and several studio cuts collected from last year's Joshua Tree tour have been assembled into **Rattle and Hum**, the soundtrack from U2's forthcoming movie of the same name. The double album **Rattle and Hum** is U2's first recorded work in a year and a half, and unfortunately, disappointing compared to their earlier efforts.

**Rattle and Hum** opens with a live version of the Beatles' "Helter Skelter" that lead singer Bono claims to "swal..." from Charles Manson. Sadly, the song's drumming and Bono's slightly off-key vocals detract from an otherwise promising beginning. U2 could have taken a cue from Hisker Di's thrash-punk recording of this song and spared it up a little; at its present tempo, it's almost soporific.

The next song is "Van Diemen's Land," a song written and sung by Edge, U2's guitarist. Edge's voice is polite and carries a nasal quality reminiscent of Woody Guthrie and the Alamo's Mike Peters. The song's gentle Irish folk rhythms are soothing, helping its unhappy state of Irish post-deportation to Australia because of his poetry.

"Desire," the current single, features a bouncing, ringing guitar and a Bo Diddley-type solo. It's pleasant if forgettable, a lightweight U2 song that's fun to listen to at top volume but doesn't contain much of the political bite the group is famous for. Better to move on to "Hawkmoon 268," a dark, edgy love song with Edge's fuzzbox guitar providing sharp little embellishments to the verses. Mac- ochistic lyrics such as "Like a needle in a vein / like someone to blame..." need your love and the tortured final verse give this song substantially more depth than the preceding ones.

However, the group produces another weak song in their gospel tradition of "I Still Haven't Found What I'm Looking For"; the song's original version was a cornerstone of the Joshua Tree album. While its spare semi-acoustic opening is fragile and showcases the longing and desire for release expressed in the lyrics, the gospel choir that kicks in at the chorus is too polished and precise and overpowers the song's delicate beginning. The choir's parts become intolerable by the third verse, and soloists Dorothy Terrell's fierce vocals almost save this recording, but by the end, U2 has blown their chance at producing an incredible song.

Fortunately, they redeem themselves at the end of the first side. "Silver and Gold" and "Pride" are two of U2's finest songs, both live and on vinyl. In "Silver and Gold," Bono casually tosses off lines like "There's a rope around my neck..." and "There's a rape around my neck..." but this only emphasizes the song's violent anti-sap- rism. Message. As for "Pride," this is clearly the best live version of the song I have ever heard. "Pride" has a powerful message, a vindication of Martin Luther King Jr., and to hear a crowd of ten thousand singing along to the chorus is indeed awe-inspiring.

Side two opens with "Angel of Harlem," a Slim Harpo tune that benefits from the Memphis Horns' crisp riffing. This, along with two other songs, was recorded at Memphis' Sun Studios, most famous for Elvis' "Sun Sessions." Unfortunately, the sound of the Sun side, "Love Rescue Me," is a chilling collaboration with Bob Dylan that even the talented Memphis Horns cannot save. Bono's patented throaty scream revives some hope of rescue at the end, but by then it's too late to matter. Far better than this awful song is a duet with blues master B.B. King on "When Love Comes to Town," King's best work in years. His vocals are soulful and his guitar tight and cutting. Bono even does a passable impression of King to help produce one of **Rattle and Hum**'s catchiest songs.

"Heartland," a Brian Eno/Daniel Lanois effort that would have been at home on U2's **Unforgettable Fire**, follows "When Love Comes to Town." Its sound is sparse and almost like a blank; the musical recommendations are exactly the opposite. King's best work in years. His vocals are soulful and his guitar tight and cutting. Bono even does a passable impression of King to help produce one of **Rattle and Hum**'s catchiest songs.

"Miss Sarajevo," a Brian Eno/Daniel Lanois effort that would have been at home on U2's **Unforgettable Fire**, follows "When Love Comes to Town." Its sound is sparse and almost like a blank; the musical recommendations are exactly the opposite. Advantage of those strengths. We like creative, ambitious, enthusiastic people. They work better. And they help us work harder.

Think about this before you choose. Do you want the chance to make a real impact on your company's future? **Chevron Corporation**

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Pick your company very carefully. Or you might not like the break-in period.
Van Gogh describes events in epistolary film biography

VINCENT
THE LIFE AND DEATH
OF VINCENT VAN GOGH
Directed by Paul Cox
Van Gogh's letters read by John Hurt. Opens today at the Coolidge Corner.

By MANAYENDRA K. THAKUR

Van Gogh's letters read by John Hurt.

The film's first reel is perhaps its worst, and Cox's approach is remarkably efficient and effective.

There is slightly weakened as a work of film art because it is not as subtle and sublime a film portrait as Paul Leacock's Peake's. But precisely because of that reason, Cox's film is by far the more accessible of the two. And that creates enough to its success to enable critics and audiences alike to appreciate in wonder the persona of Van Gogh that Cox has drawn in his memorable tribute.

Cox clearly recognizes these problems, and he properly does not seek to overcome what are obviously intrinsic barriers. Rather, he emphasizes the strengths that the film medium has to offer, such as film's unique ability to discern minute details through closeups and its ability to create a synthesis of ideas through careful editing and juxtaposition of its images and sounds. It is through this mechanism that Cox creates the precious links between Van Gogh's life and his art that lend credence and presence to the film's portrait of Van Gogh.

Van Gogh describes events in epistolary film biography

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<td>Bushican and Dukacak T-shirts</td>
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<td>Entire stock of Women's dresses</td>
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<td>Entire stock of Women's regularly priced robes</td>
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<td>Women's Cross Creek turtleneck sweaters</td>
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<td>Women's regularly priced robes</td>
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<td>HOME &amp; LEISURE</td>
<td>Entire stock of regular priced pre-recorded tapes and blank tapes.</td>
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<td>Entire collection of framed Wyeth's. Includes selections from Andrew, Jamie and N.C. with rare book prints specially framed at $50.</td>
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<td>Scotch 3-pack video tape, includes two T120's and a T160HG.</td>
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<td>Sony home/car portable CD player D160.</td>
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<td>Maxell MFDD 3.5&quot; DS/DD disks.</td>
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<td>5-piece silver plated brass frames.</td>
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<td>Women's regularly priced robes</td>
<td>$22-50</td>
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<td>Entire stock of comforters or blankets</td>
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<td>$9.60-95.99</td>
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<td>Entire stock of paperback horror fiction books.</td>
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<td>Magic Carpet Sale-saves on all rugs in stock.</td>
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<td>Assorted monster, witch and ghost books for children.</td>
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**MIT COOP AT KENDALL**
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PAGE 14 The Tech FRIDAY, OCTOBER 28, 1988
ALL I REALLY NEED TO KNOW I LEARNED IN KINDERGARTEN

By V. MICHAEL BOVE

S hare everything. Play fair. Clean up your own mess. Say you’re sorry when you hurt somebody. These and other bits of wisdom make up Unitarian minister/folksinger/artist Robert Fulghum’s rules for living, which he observes were presented clearly and concisely in kindergarten, and could not be improved upon by the many years of study that followed.

In another essay, this self-confessed “pinko egghead minister” has his tongue only slightly in his cheek when he proposes that the government air-drop Crayola crayons (the giant, 64-color sets) into regions experiencing political turmoil. It all I really need to know is per-perfectly kid stuff. Fulghum is looking for a meaningful life in a world fraught with war, famine, and disease. The main thrust of his collected thoughts on love, race relations, life, Mother Teresa, jumper cables, and especially chicken-fried steak seems to be that the world isn’t nearly as bad as it often appears, but that recognizing this fact requires living with incom-patible contradictions.

A great deal of Zen (as well as an equal dose of no-Zen) runs through this book, and it should come as no surprise that Fulghum lived for a time in a Buddhist monastery. (He has also been an IBM salesman and a working cowboy.) Throughout the course of the journey the reader is introduced to a cast of unusual characters, including the author’s invisible grandfather, a gentleman in a flying lawn chair, and a rabbi who advises a troubled man to seek wisdom in a book of baseball statistics.

The title essay will probably be copied and stuck to refrigerator doors coast-to-coast. All I Really Need to Know is perhaps too saccharine and sanguine in places as it often appears, but that recognizing this fact requires living with incompatable contradictions.

Play fair. Clean up your own mess. Say you’re sorry when you hurt somebody. These and other bits of wisdom make up Unitarian minister/folksinger/artist Robert Fulghum’s rules for living, which he observes were presented clearly and concisely in kindergarten, and could not be improved upon by the many years of study that followed.

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Contact: Andreas Hofmann
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125 CambridgePark Drive
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**An Invitation to all Students**

The MIT Corporation's Visiting Committee on Student Affairs will be at the Institute on November 6 - 8, 1988. Please join us on Monday November 7 at 9:00 a.m. in the Bush Room for a discussion relating to the quality of life for international students at MIT. The meeting's entire agenda is available in the ODSA, 7-133.

We extend a special invitation to you to attend a meeting and reception for students with the Committee on Monday, November 7 from 7:30 - 9:00 p.m. in the Bush Room.

For more information call 3-6776.

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- At Graphics Express, we offer free updates on all our resumes. Forever. If you need to add a summer job, update an address, or even change your resume style, we'll do it fast and professionally.
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**ON-THE-SPOT INTERVIEWS**

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*Boston University*
George Sherman Union
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Boston, MA

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**You are invited to attend a Presentation on Investment and Merchant Banking**

4:30 p.m., Thursday, November 3
Room 8-105

All undergraduates are invited to join Shearson Lehman Hutton Inc.
Corporate Finance Professionals

Reception to follow

Shearson Lehman Hutton Inc.
**The Tech Performing Arts Series presents...**

**PRO ARTE CHAMBER ORCHESTRA**

Soprano Gloria Raymond, who also works at the medical department at MIT, will be the soloist in Beethoven's "Le Nozze" of 1806, while Randall Hodgkinson will solo in the world premiere of Elizabeth Hovland's "Dispute our difference." *No. 3: Concerto for Piano and Orchestra. Haydn's Symphony No. 99 is also on offer. David Howie will conduct. MIT price: $5.*

Jordan Hall, October 30 at 8 pm.

**ANDREW RANGELL BEETHOVEN CYCLE**

Andrew Rangell is performing a complete cycle of the Beethoven piano sonatas this season, and we will be selling tickets to hear this compelling performer at an unbeatable price. For his October 30 recital Rangell will play Op. 10, No. 1, Op. 10, No. 2, Op. 28, Op. 54 and Op. 101. MIT price: $4

Jordan Hall at the New England Conservatory, October 30 at 8 pm.

**RASUHTO YAMASHITA**

Japenese guitarist Kazuhito Yamashita achieved critical acclaim in a series of recitals with James Galway. He makes his Boston solo recital debut with a program including music of Mozart, Beethoven, and Brahms. MIT price: $5

Jordan Hall at the New England Conservatory, November 4 at 8 pm.

**BEETHOVEN VIOLIN CONCERTO**

Tatiana Serinova-Safier, Concertmaster of the Boston Pops Orchestra, will be soloist in a performance of the Beethoven Violin Concerto, with the Pro Arte Chamber Orchestra conducted by David Gilbert. Thomas Haunton will be soloist in Mozart's Horn Concerto, K. 477 & E. 414, and Stradivarius' Duets for Oboe and Beethoven's 'Condivid's Overture will also be on offer. MIT price: $5

Jordan Hall at the New England Conservatory, November 4 at 8 pm.

**PETER CHILWORLD PREMIERE**

MIT professor and composer Peter Child will have his new work "Estraja: The Assassination of Augusto Cesar Sandino" given its first performance by the Camerata Sinfonia & Ensemble, directed by David Howie. The composition, a setting of poetry by Pablo Neruda, Ernesto Cardenal, and Pablo Antonio Cuadra, examines the circumstances surrounding Sandino's death in Nicaragua in 1953. Two Such compass, BWV 21 and BWV 308, will also be performed. MIT price: $5

Jordan Hall at the New England Conservatory, November 12 at 8 pm.

**Tickets are on sale at the Technology Community Association, W20-450 in the Student Center. RCA offices are not open all day. Office hours are posted on the doors; alternatively, you can call x3-4885 before walking over.**

The Tech Performing Arts Series, a service for the entire MIT community, from The Tech, MIT's student newspaper, in conjunction with the Technology Community Association. MIT's student community service organization.
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Copley Marriott, 110 Huntingdon Ave.
9:30 - 2:30 November 4
Delicious hors-d'oeuvres!

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Cambridge Technology Group
Cummins
D & N Systems
Data General Corp.
The Foxboro Co.
Goodyear
Galileo Electro-optics
GTE Corporation
Hughes Aircraft Co.
ICI Americas
Institute for Defense Analysis
Lawrence Livermore Labs
Lincoln Electric Co.
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Lord Corporation
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Oracle Corporation
Peace Corps
Pease Air Force Base
Raychem Corporation
Sun Microsystems
US Air Force
US Navy
Wang Labs

Tickets: $9 in advance
$12 at the door
Available in Lobby 10
Three days before

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Position available: Corporate Analyst.

Criteria: Willingness to work long hours
alongside senior members of our firm.
All majors are eligible.

For more information: Attend a presentation
on Thursday, November 3 at 4:30 p.m.
in Room 8-105.

The Investment and
Merchant Bankers of
Shearson Lehman Hutton
Russell Sherman commands attention in Symphony Hall

BOSTON SYMPHONY ORCHESTRA
Conducted by Parke R. Verret. Russell Sherman, piano soloist in Harbison's Piano Concerto and Liszt's Piano Concerto No. 1. Symphony Hall, October 27, October 29 & November 1 at 8 pm, and October 30 at 2 pm.

By JONATHAN RICHMOND

There aren't many pianists around who can simultaneously impress and bore you. Sherman is the latter and intelligently. Last night Russell Sherman proved that he is one of these. To Sherman, interviewed by telephone from his Lexington home, "the piano essentially has no character, and therefore is the means to infinite characters." In Symphony Hall, Sherman made his Steinway sing in many guises, made it a focus of attention as it demanded, then danced, took off in a fit of bravura, dwelt in the realm of the romantic, and ended the evening on a note of complete conquest.

Sherman began with the Piano Concerto of MIT Professor of Music, John Harbison, a dynamic, harmonically rich work and a challenge to any pianist. Sherman's perfectly crystalline sound was immediate-ly apparent, a sound armed with an incisive edge, but capable of striking with thunder as well as piano for bravery. The opening orchestral passage is on the heavy side — intentionally so — and Sherman's entry brought relief, then commanded attention as each little variation in attack elicited an invitation to contemplation. Russell is clearly taken with the "whale realm of the non-legato, which is deeply neglected," and during the Harbison put on display the many degrees of sonority and legato, demonstrating that when delivered thoughtfully, pianism can be a route to spiritual legitas.

As is true in many Harbison works, orchestral textures are well-studied in the Piano Concerto, and winds add enigmatic coloring to the strings. Sherman was always at the center of attention, with the orchestra at times surrounding him, but never quite able to hold him hostage.

The opening of the second movement brought with it a rhythmic intimacy from Sherman, transcended by a passage of Chopinesque lyric beauty, which in the midst of Harbison's abundance of complexities was utterly disarming.

Sherman returned after intermission to give a dramatic performance of Liszt's Piano Concerto No.1. Sherman showed the truth of his belief that each performance is a "renewal and recreation; that's the truth of his belief that each performance is a "renewal and recreation; that's the beauty of music as original story." He did so by drawing attention to each phrase, carefully placed inflections drawing attention to aspects of Liszt not encountered before. In the second movement Sherman's playing was magically beautiful, deeply sensual, but still finding the mind with a new twist on this detail, a little extra emphasis on that one. Intimate colors were made to bloom and fade, drawing the audience into Sherman's — and Liszt's — intimate, personal world.

Every moment in the last movement had it's place in Sherman's crescendo rise to a triumphant finale, one that was powerful, one which left everyone spiritually refreshed.

The concert began with a square and charmless account of Bizet's Symphony in C. It ended with a vibrant performance of Liszt's Bacchanal at Ariane, Suite No. 2. Note: Rush tickets will be available for post-performance of this concert to be given this afternoon and tomorrow night.
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Information Presentation
Wednesday, November 2
5:30-7:30 PM
E-51 Building

For Sloan students interested in
Foreign Exchange
Sales and Trading
Risk Management
Research

Confirm the time and location with your placement office.

JPMorgan
EECS enrollment falls; biology has big increase

(Continued from page 1) the numbers indicated an increased interest in biology. But he did note some capacity problems in the department because there have been larger classes in the past and the program is flexible.

The entire School of Science posted an increase of 24 students, rebounding from a drop of 31 students last year. Biology and mathematics accounted for the greatest gains.

The School of Humanities and Social Science attracted seven more students than last year with economic posting the largest increase. The Schools of Architecture, Education and Management had minor changes. The Departments of Urban Studies and Planning and Ocean Engineering attracted no sophomores.

Elizabeth Johnson, associate dean of the admissions office, said that the new selection process has had an impact on the results of the fifth week count. There has been "an interest in distributing students throughout the Institute in a more equitable manner," she said. Specifically the admissions office has tried to look for students with a strong background in the pure sciences.

World democracy is in good shape, leaders say

(Continued from page 1) should be cognizant that Pakistan's stability in recent years has been more of an illusion than an achievement, Watson said.

The principal threat to Canada's stability in recent years has been the question of independence for Quebec, according to Brian Watson, head of the political section of Canada's consulate in Boston. But that issue was resolved at least for a generation in favor of Quebec's continued membership in the Canadian union by a 1981 referendum, Watson said.

The tradition in former parts of the British Empire where citizens have a right of citizens to be unwritten, Watson said — noting few counterparts of the US Bill of Rights. Several years ago, Canada, under the leadership of Pierre Trudeau, adopted a sweeping Charter of Rights and Freedoms,watson said — noting few counterparts of the US Bill of Rights. Several years ago, Canada, under the leadership of Pierre Trudeau, adopted a sweeping Charter of Rights and Freedoms — that is included among other things a guarantee of equal rights for women. Some Canadians fear such constitutional mechanisms might open the way for domination on many legal questions by the judicial system, rather than by the people's elected representatives, Watson said.

The Battle of Algiers

Will Gorbachev's revolution succeed — or fail? Professor IIeth Legvold of Columbia University speaks at a special Cambridge Forum on Saturday, October 28 at 3 pm in Winchester at the Unitarian Church, Main Street at Mystic Valley Parkway.

The Aga Khan Program for Islamic Architecture will be sponsoring a Film called The Battle of Algiers on Friday, October 28 at 8:30 pm in the lower level of MIT Building E11. For more information, call (617) 253-1400.

Friday, Oct. 28

On Friday, October 28 at 8 pm, Black Rose Lectures will sponsor a talk by George Katliadis entitled "From the New Left to the Autonomous: 20 Years of Political Evolution of Europe" in Room 9-150. For more information, call (617) 545-0791.

Saturday, Oct. 29

Super Sound of Cambridge is offering a Super 8 Symposium and other workshops on Film-making. The first is on Film ExPOSURE and will be held on Saturday, October 29 from 11 am - 2 pm. The fee for the workshop is $30. For more information about other workshops and costs, call (617) 876-5877.

Sunday, October 30

The seventh annual Walk for Peace will take place on Sunday, October 30. This is a walkathon to bring awareness and organization working on peace and justice issues. Festivities begin at 11:30 am and the walk begins at 1 pm. To join or for more information, call (617) 688-5239.

notices

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If you'd like to attend, just call TIAA-CREF at 1-800-842-2733, ext. 2983.
ATTENTION ALL GRADUATE STUDENTS

MIT is seeking the participation of graduate students in the following institute committees:

**Athletic Board**
Ad Hoc Comm. on Military Impact on Campus Research
Advisory Comm. for Women Students Interests
Advisory Comm. on Shareholder Responsibility
Comm. on Assessment of Biohazards
Comm. on Discipline
Comm. on Family and Work
Comm. on Graduate School Policy
Comm. on International Institute Commitments
Comm. on the Library System
Comm. on Privacy
Comm. on Radiation Protection
Comm. on Safety
Comm. on Toxic Chemicals
Comm. on the Use of Humans as Experimental Subjects
Comm. on Visual Arts
Commencement Comm.
Community Service Fund Board
Corporation Joint Advisory Comm. on Inst. Wide Affairs
Equal Opportunity Comm.
IAP Policy Comm.
Medical Advisory Board
Prelaw Advisory Council
Women Advisory Board
Women Students Cooperative Board

If you are interested in serving on any of these committees, please pick up an application form at the Graduate Student Council office (50-222) during the hours of 1:30 to 5:00 pm., Mon - Fri. Interviews will be conducted on Monday, November 7 and Wednesday, November 9 starting at 5:30. If you have any questions, please call the GSC office at 253-2195.

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For undergraduates interested in the new MINOR programs in Humanities, Arts, and Social Sciences (HASS) contact the appropriate field office:

**Anthropology/Archaeology**

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**Science, Technology, and Society**

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**Women's Studies**

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For general information contact the HASS Information Office 14N-408, x3-4441.
sports

MIT heavyweight crew wins first place finish

(Continued from page 24) with Kammer coxing.

Coach Hamilton was very pleased with his crew's perfor-

mance. "We want to go undefeated this fall," says Hamilton, re-
ferring to the victory at the America's Cup race last Sunday and the Dartmouth Invitational race coming up in early No-

vember.

Han coxswains winning four

Paula Han '89 had the oppor-
tunity to coxswain a BRC wom-
en's championship four. The four
crewswomen had returned a month ago from the Summer
Olympics in Seoul, where they
rowed in the US women's eight. After not rowing together since
then, they came back to win their
race by 52 seconds after only a
single practice row the day be-
fore. "It was the smoothest row
in my life," said Han. "It was a
coxswain's dream come true — a
chance of a lifetime. Basically, we
started first and ended first."

Steve tissue

Alice Biber '89 clears the ball during Tuesday's game
vs Colby. See story page 24.

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**Women's soccer wins in final home game**

By Kevin Hwang

Colby-Sawyer College women's soccer team might have had an easy victory in mind when they walked onto the field of Alumni Stadium on last Tuesday afternoon. And why not? The Engineers have won only two games this season and have lost four in a row. Yet MIT proved that statistics do lie as they went on to beat Colby-Sawyer by the score of 1-0.

This was more than just another win for the Engineers. It was the last regular game of the season and for seven seniors, Alice Kingsley of MIT extolled Alyssa Parker, Charlotte Biber, Sandra DeVincent, Tanya Jegeris, Eileen Murphy, Niki Panatellas, and Jenny Tang, their last chance to play in front of the home crowd.

With all seven seniors starting, MIT came out hungry for a victory. MIT mostly kept the ball on the Colby-Sawyer half by aggressive playing in the middle with crisp overlapping plays. Yet the scoreboard didn't reflect the Engineers' performance as the first half ended scoreless. The Engineers failed to capitalize on several open net opportunities as the shots went awry.

Twenty minutes into the second half, the Engineers finally broke the scoring drought. On a feed from Alyssa Parker '91 at midfield, Alice Biber went on a one-on-one scoring past the defenders. As the goalie came out to stop her in a last desperate attempt, Biber drilled the ball into the upper corner of the net.

With the lead, the Engineers' momentum seemed to drop as Colby-Sawyer had several opportunities to score. But the Midfield Leif Charlton of MIT made the lead stick as they frustrated the Colby-Sawyer offense by often catching them offside.

By Jay Damask

The MIT varsity lightweight crew rowed to victory in the Head of the Charles Regatta club eight race last Sunday. After winning the first race by a half-mile, the MIT crew won the three mile race by one-half second, defeating 9-15 other teams including rivals from Boston College and Northeastern University.

The junior varsity crew, racing in the same event, took eleventh place, guaranteeing them an entry in next year's regatta. It was an outstanding performance of both the varsity and JV. Coach Gordon Hamilton said, "We were rowing a very solid race." The right steering of coxswain Alex Min '91 helped the varsity to pass three other crews throughout the course of the race. "Every buoy was right along side of the boat," said Batkin "Franklin '89 explained.

The Engineers passed the first crew at the one mile mark and the second crew at two miles. However, with less than a mile to go, Harvard Law School went all out to make it close. But MIT held the boat and the Engineers went on to win.

The varsity team is: stroke Charles Nelles '90, Franklin, Jay Best '89, Brian Vajda '90, Payne, Dave Haldeman '91, Mike Van '90, and coxswain Alex Min '91. Especially impressive was the presence of the three sophomores in the varsity boat.

The sophomores pulled hard. They were very excited and they earned their positions in the varsity boat.

**MIT crew finishes first at Head of the Charles**

The junior varsity had "one of the best rows we've had together." The head wind was not a problem and the racing stayed between 29 and 30 strokes per minute the whole way," said coxswain Rachel Kaminter '93.

The race strategy was to row at 80 percent for the first mile, at 90 percent for the second mile, and full pressure for the last mile. The JV passed two boats in the race. The first boat was passed under the Weeks bridge. "First we took a boat every two strokes and then once we were back we took one every stroke," Kaminter explained.

The second boat the JV passed was rowing with Harvard blades. "Once I told my crew that if we were passing Harvard blades the boat jumped forward," Kaminter said. "I was finished with a time of 17:01."

The JV finished close in the last mile with a time of 17:01.

**Sports Update**

**Pair of Beavers players of week**

Wide receiver Anthony Lape '90 and linebacker Rick Beullish '90 have been named players of the week in the New England Collegiate Football Conference. Lapes had "one of the best game receiving yards in MIT history. Beullish had seven tackles, two interceptions, a fumble recovery, and a pass broken up in the Beavers' 14-13 win over Stonehill College last weekend.

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**New England Women's Eight Conference Standings**

Volleyball

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**sports**

Midfield Eileen Murphy '89 chases after a Colby player in her last home game at MIT. The Engineers won 1-0.

By Kevin Hwang

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