Faculty approves EECS restriction plan

CUAFA will not invoke plan this year

By Thomas T. Huang

The MIT Faculty approved Wednesday the Graduate Educational Policy (CEP) plan to restrict graduate enrollment in Electrical Engineering and Computer Science (EECS).

The faculty failed to act on the Course VI overcrowding problem. Since 1881, Massachusetts Institute of Technology has continually faced the overcrowding problem, and the faculty only approved the proposal and the threshold of enrollment. But the CUAFA wanted to obtain a quality enrollment. To get the enrollment, they would have to decrease the number of students.

Some faculty members also voiced concern about the proposal and the threshold of enrollment. "It would be a tragic mistake if you approved the proposal and the threshold of enrollment," one professor said.

Some faculty members also pointed out the need for a new plan. "The idea of determining one's life with the flip of a coin does not sit well with many of the faculty," according to Smith.

But the choice of restricting students at the end of their first year at MIT is no better. Many of the faculty agreed this system would not work.

Saltzer to lead the technical work on Project Athena's second phase

By Kevin D. Hersh

Harold S. Saltzer, "61, professor of computer science, has been appointed technical director for Project Athena, according to Athena Director Steven R. Lerman, "61.

"Saltzer will be responsible for the technical design of the system," Lerman said. "He is someone I have known for a long time and I am confident that he will be a success in this role." Saltzer has been instrumental in developing the LCS environment, which is doing as well as might be expected," Lerman said. "Given the objectives, which are very, very ambitious, Athena is doing as well as might be expected," Lerman said. "Athena is definitely moving, but with greater difficulty than originally thought.

"The campus is not particularly well-suited for this type of project," Lerman said, referring to old buildings and difficult wiring. "But the campus has also encountered difficult "hiring technical staff, competing with private industry," for individuals," he said.

Saltzer has also been involved in the project's technical aspects of Phase II such as networking and operating systems. He was one of the original members and has been instrumental in developing the local area network, hardware, and software in the LCS environment.

"Phase II will consist of a large number of member institutions, a network that will serve as a test bed for the network," Saltzer explained. "It will allow us to experiment with the main part of the project, the installation of 2690 terminals in a giant network." Saltzer is a member of the Computer Sciences Corporation and is developing the network protocol. The network actually goes beyond Athena - it will extend to research facilities and link into a supercomputing system. Athena is exclusively for educational purposes, but outside educational uses are prohibited.

"Given the objectives, which are very, very ambitious, Athena is doing as well as might be expected," Lerman said. "Athena is definitely moving, but with greater difficulty than originally thought.

And furthermore, Walker Beef Liver Fella is the pits. Find out what students said at the first Dean's Office Open House on the quality of life at MIT - and how many showed up. Page 6."

In the audience, behind the scenes, and on the streets of Cambridge waiting for the Ringling Brothers and Barnum Bailey Circus, Pages 11, 12.

Chuck Jones cartoons: not just for LSC short subjects anymore. See them at the WCL cinema and enjoy your cake, too. Page 13.
Mondale narrows gap

By Harold A. Stern

President Ronald Reagan's lead over Walter Mondale has dwindled to nine percentage points in the latest Harris poll, the narrowest margin yet in the 1984 presidential campaign. The lead, a commanding thirteen points before the debate, has shrunk to three points.

Mondale's strong showing in the presidential debate silenced critics who claimed the challenger was uninspiring. The poll indicated Mondale's association with the Carter administration, which did little to inspire enthusiasm among younger voters, has hurt the challenger. Economic self-interest in recent years has become more important to college students. Younger voters believe that they will benefit more economically by a Reagan presidency. In 1976, only thirty-nine percent of students indicated that economic well-being was important to them, while in 1983, nearly seventy percent did. Polls show that most people will vote for the candidate they least dislike, a negative vote measure reminiscent of the 1980 campaign, when many voters had confidence in neither Reagan nor Jimmy Carter.

The president and his opponent are deadlocked by this measure at 42 percent each in Massachusetts and seven of the largest industrial states. Reagan's lead in these key states, which possess 256 of the 270 electoral votes needed to win, is only six percentage points. Fifty percent against 45 percent for Mondale is weakest in the South, where Reagan's conservative stand on religious issues and abortion have attracted much support; he is strongest in the West, which Reagan carried most hands-down in 1980.

Women voters continue to support the incumbent by a narrow 50-46 percent margin. This is surprising, in light of Reagan's disapproval among minority groups. Women and younger voters are deadlocked by this measure at 42 percent each in Massachusetts and seven of the largest industrial states. Reagan's strong showing in the West, which Reagan carried most hands-down in 1980.

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news roundup

World
Apartheid foes win peace prize — South African Bishop Desmond M. Tutu, a black Anglican clergyman and outspoken critic of the apartheid policies of his country's government, was announced Tuesday as the winner of the Nobel Peace Prize. The Nobel Committee openly acknowledged the award is intended to bring pressure on South Africa to end its policy of racial segregation. Tutu, currently in New York on a three-month study sabbatical, expects to be permitted to travel to Oslo, Norway in December to accept his award, but noted that the South African government has revoked his passport in the past. Tutu intends to use the $102,000 prize to support scholarships for disadvantaged black youths.

Chernenko says US holds key to peace — Soviet premier Konstantin Chernenko said that relationships between the Soviet Union and the United States can be improved, but that the US government must respond to at least one of four specific arms control proposals he outlined in an interview Tuesday. Chernenko reportedly appeared fit and robust, helping to explain his health is failing rapidly. Some US officials see Chernenko's statements as an attempt to push the issue of arms control to the forefront of the presidential campaign.

Reagan, Mondale prepare for debate — President Ronald Reagan and Democratic presidential nominee Walter F. Mondale have severely curtailed active campaigning to prepare for their second and final debate Sunday evening. Foreign policy issues are the scheduled topic of nationally televised debate, but the flap over comments made during and after the vice-presidential debate that the United States was "shamed" by terrorist attacks in Lebanon will likely be introduced.

Nation
EECS overcrowding a national problem — The problem of overcrowding in electrical engineering and computer science is widespread, reported Web Magazine Tuesday. Many students echoed the EECS voiced fears in the Journal article that plagues such as those now being implemented by the University of Illinois and MIT for restricting enrollment in EECS undergraduate departments would create an "elite" among the student population.

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Business as usual at the Magic Kingdom — The first of nearly 2000 striking Disneyland employees worked Wednesday, ending a three-week walkout which was the longest in the California theme park's 29 years of operation. The workers agreed to a two-year wage freeze in return for greater fringe benefits for part-time employees.

Local
Nurse acquitted of attempted murder — Victoria Knowlton was found innocent Tuesday of disconnecting the respirator used for a patient who lapsed into a coma but subsequently recovered, testified via videotape from his hospital bed that Knowlton turned off the apparatus. William Cronin, who is terminally ill with Lou Gehrig's Disease. Cronin, was found innocent Tuesday of disconnecting the respirator of Vilora, who lapsed into a coma but subsequently recovered, testified via videotape from his hospital bed that Knowlton turned off the apparatus and said "You're going to die."

Kerry, Shamie trade charges — John F. Kerry and Raymond Shamie, the Democratic and Republican contenders for the US Senate seat being vacated by retiring Sen. Paul Tsongas, both denounced the other's position on South Africa Tuesday. Kerry, who has been critical of the apartheid policies of his country's government, was announced Tuesday as the winner of this year's Nobel Peace Prize.

Sports
Referees apologize for bad call — The officiating crew of Saturday's Texas-Oklahoma football game publicly apologized to Oklahoma coach Barry Switzer for a bad call which probably cost his team the victory. On the second to last play of the game, the Texas quarterback threw a pass which was intercepted in the end zone. The referees ruled the Oklahoma defender was out of bounds; replays later showed he had remained in bounds, and that Oklahoma should have been awarded possession of the football. Texas then kicked a field goal as time expired, tying the game at 15-15.

Celtics trade Henderson to Sonics — Gerald Henderson, a starting guard for last year's National Basketball Association champion Boston Celtics, was traded Wednesday to the Seattle SuperSonics for a second round pick, according to Celtics president Red Auerbach. Henderson's spot on the roster is expected to be taken by Rick Carlisle, a rookie from the University of Virginia.

It's official — After weeks of speculation, the Boston Red Sox announced yesterday that John McNamara will be the team's new manager, replacing retired Ralph Houk. McNamara led the California Angels for the past two seasons.

Cubs' Frey is the best — Chicago Cubs skipper Jim Frey was named the National League Manager of the Year by the Baseball Writers Association of America. Frey, in his first year at the club's helm, led the team from an under-.500 record last season to its first title since 1945.

Weather
A homecoming shower? — Today will be mild and partly sunny, with a high near 65. Showers are likely in the evening, with a low near 50, and the rain may continue through Saturday morning. Skies should brighten by afternoon, with a high near 65, and Sunday should be mostly warm and sunny.

Our Open House can open up a world of career opportunities for you.

TUESDAY (OCTOBER 30) from 6 to 9 PM
Sonesta Inn, 5 Cambridge Parkway

Plan to attend. Several of our Technical Managers will be there to talk with you. Refreshments will be served.

Harris is a leading producer of state-of-the-art communication, information processing and two Dimensional Systems to the worldwide information technology market. That's probably one of the reasons why we consistently rank among the top 25 employers in the recent Graduating Engineer Employer Preference Survey. And when you come to our Career housed and will show programs, you'll be glad to tell you about all the other reasons.

Today Harris is a Fortune 200 company with sales of $2 billion. And the outlook for tomorrow is even more promising. Career opportunities exist with Harris at various locations in Florida, New York, California and Texas. We are interested in meeting candidates at all degree levels in EE, CS, CSE, Material Science.

On-Campus Interviews
Harris Management Consultants (Oct. 31, Nov. 1)
See your Placement Office for details.

HARRIS is an equal opportunity employer — Affirmative Action/Equal Opportunity Employer United States Civil Rights Requirement for certain positions.

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CAP names the SB candidates

Column/Charles P. Brown

Currently, or at least when we wrote this column, undergraduates have the right to reply to any departmental statement of policy.
The Committee on Academic Policy is charged with recommending a student's degree unless the student has completed every requirement, including the physical education requirement (even with waivers), and the humanities requirement (excluding courses in humanities concentration proposals and humanities concentration completion forms).
The committee can recommend a degree for a student lacking only one requirement if the student received an "A," "O," "OO," or "It," in a single subject (excluding thesis) during the final semester. This is called a degree with a single deficiency, and the committee will recommend such a degree only if it has evidence that the student made a substantial effort to pass the subject. The notation of the single deficiency does not appear on the diplomas.

Last spring, a departmental undergraduate officer approached the CAP about a student who had not yet had an "S" in his departmental program and was around three terms from graduation. (Please turn to page 5)

Ferraro and Bush failed to communicate well in debate

English is ambiguous. The Ferraro/ Bush interview last Thurs- day was a good example. Any subject may have its own jargon, but in politics, you also have to keep in mind who is doing the talking. Similar sounding statements can convey quite different meanings.

When Vice President George Bush--the Republican--asked about "opportunity," I understand it in terms of the readiness of capital to those who would undertake new ventures, creating not only new jobs but new wealth which had not previously existed. When Congresswoman Geraldine Ferraro--the Democrat--spoke of "equality of opportunity," she envisioned a bulldozer removing every obstacle to the lowest common denominator.

When people communicate, they do not always realize they are speaking different languages. Ferraro and Bush should be especially aware of this because they are professional communicators. They seem less interested in communicating with each other than with their supporters.

People liked her favorite candidate the winner of the debate, partly because they rejected as gibberish the arguments of the other candidate. In a debate, common grounds are established, arguments are marshalled, conclusions are supported, and, hopefully, communication occurs.

When Bush was asked what could be done to stop terrorism, he explained that improvements could be made in the political climate of a region, and law enforcement and defenses could be strengthened, but it is difficult to directly link out terrorist groups to terrorists who have no known leader.

The Iranian government even- tually would seek responsibility for holding 52 hostages at the Ameri- can Embassy. Before the Khomenei regime really took re- sponsibility, any American military action could not have been justified, because the students were terrorists and our country was in their country.

Once the Iranian government explicitly admitted the radicals stu- dents had been harboring were killed in battle and Iran became a potential military threat. Although President Jimmy Carter seemed helpless in this situation at the time, the Senate announced it would not be held to account because it was a potential military threat.

In Lebanon, the government suffers from the terrorists along with everyone else. Other govern- ments have been accused of back- ing terrorists, but unless one government publicly takes credit for the terrorists' acts, it will be hard to justify declaring war upon a country. We have seen enough undeniably war.

When Bush was asked about terrorism, she did not explain what she would do. Instead, she asked Bush the same question that had been asked, and that Bush had just finished answering.

With only one reply to make, Bush took the tone of one ex- plaining the issue to an audience and summarized his explanation in 20 words. This left time to discuss why the United States is involved in Lebanon at all, and what has been accomplished there.

Ferraro complained of his con- descending tone. After the de- bate, Bush denied he had been condescending. He clearly was condescending, and Ferraro de- manded an apology. The American embassy in Beirut was inadequately protected was good. In Lebanon -- effectively a war zone -- explanations of the different embassy's behalf and, of course, we can't protect every- body's behalf.

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After the 90 minute interview was over, CBS interviewed vari- ous public figures to get their re- actions to the candidates. Massa- chusetts Governor Michael Dukakis was one of them. He explained that Bush's statements about overthrowing (founding) the Sandinista regime. He found Bush would see nothing wrong with the Sandinista's actions, but the United States was involved in Lebanon at all, and what has been accomplished there.

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The semantics of politics is quirky

(Continued from page 1)
**ODSA discusses student life**

By John B. Starey

Students and faculty discussed the quality of student life at MIT as it was viewed today. The meeting was the first of four sponsored by the Office of the Dean for Student Affairs (ODSA).

Only 13 students attended the meeting, although it was open to the entire MIT student body. The group's discussion focused on the survey of MIT students conducting by the ODSA last spring. About 500 students responded. The purpose of this questionnaire and the four scheduled to prepare for the arrival of the Visiting Committee on Student Affairs in February 1985.

Although most surveyed students felt MIT was a good choice, a significant number were dissatisfied with social life here.

The survey's initial focus was to determine how minority students viewed student life at MIT. The Dean's Office, however, expanded the survey to include all students.

The group discussed the "love-hate" relationship between students and MIT. Many administrators expressed concern for the harsh pressures that students feel.

One surveyed student responded, "the challenge of MIT was the best thing for me." Others said, "MIT is a good school, but why does it have to be so harsh?"

About 66 percent of the survey population said they made the right choice for college, but 9 percent said they did not. The remainder were undecided.

Restrictions of MIT life described it as "physically detrimental to my health" and "a lot of pain." One said, "I have lost 10 years of my life," and that "I have been here too long."

The discussion group also addressed the relationship between students' academic and social lives. A graduate student said his colleagues feel the pressure when it comes to their responsibilities. If you would want to do something other than research, a graduate student said, "you professors thrown upon you."

Another graduate student said many of his friends on the Graduate Student Council are "in fear of their lives." If their advisors found out about their outside involvement, he said, "they might threaten to cut off support."

Most graduate students at the discussion agreed that their extra-curricular involvement was restricted due to departmental pressures or lack of activities for graduate students.

The group discussion filtered down to three academic difficulties: some students are afraid to admit they need help; others are embarrassed to admit they have a problem, especially among large groups of students; and still more will not seek help because they feel as though they are imposing on professors or teaching assistants' time.

The group decided that academic difficulties and pressures varied from department to department, as well as from advisor to professor. This is true on both the undergraduate and graduate levels, they said.

The social life survey showed 40 percent of the students are unhappy with the social life at MIT.

The ODSA attributed this dissatisfaction to high expectations and student background. Close to 40 percent of the students surveyed said their attitudes toward social life were different from that of other students. As one administrator put it, "it has the implications that I'm not going to get involved."

Campus activities are a different story: the survey showed that two-thirds of its respondents were satisfied with campus activities.

The survey found that 70 percent of the students are highly involved in sports and physical activities. "People had to time to burn off steam, then right back to the books," one ODSA administrator said.

Conversely, few students participate in student government, musical activities, or theater, according to the survey.

Dean for Student Affairs Shirley M. McCoy was disappointed about the late publicity for the meeting. She said, however, that the smaller group allowed administrators to ask more in-depth questions and receive in-depth responses.

Associate Dean for Student Affairs Robert Randolph encouraged that students attend the next meeting. "It is open to the whole community."
Warnke addresses MIT faculty panel on nuclear arms race issues

By Becca Munroe

Paul Warnke, chief US negotiator for Strategic Arms Limitation Talks (SALT II), addressed issues of the nuclear arms race with an MIT faculty panel last Tuesday night. The forum was originally intended to be a debate on national policy issues between a Republican representative and Warnke, a representative for Democratic presidential candidate Walter F. Mondale. No Republican representative, however, agreed to attend.

Warnke began his speech by mentioning decisions and talks between the United States and the Soviet Union. He posed the question: What kind of a tradeoff would the United States need to maintain peace, as well as peace of mind?

Warnke attacked the President's policy on arms control. "The Reagan administration comes into office with no interest whatsoever in negotiating arms control agreements," he said. "If you don't want one, it is easy not to get an agreement."

The United States has wasted too much time discovering that negotiations require tradeoffs, Warnke said. Nuclear arms reductions are possible, he maintained, although solutions still need to be found. He said there are only two alternatives: either the United States and the Soviet Union both build up arms or they both disarm.

"The Soviets are...much more worried about nuclear war than we are," he said. He concluded his talk by saying that arms reduction is "...the only course for the security of the United States and the survival of the planet."

"The Reagan administration comes into office with no interest whatsoever in negotiating arms control agreements," he said. "If you don't want one, it is easy not to get an agreement."

President Emeritus of MIT Jerome B. Wiesner opened the panel discussion, saying it would be easy for ten nuclear weapons to destroy all the major cities on the planet. "A freeze is a perfectly safe and verifiable thing to do," he maintained.

Warnke agreed with Wiesner that a freeze was a good idea, but he said, "it doesn't make sense to do it all at once and nothing else."

"What if we destroyed all our land-based [inter-continental ballistic missiles] unilaterally?" Warnke replied that this would not happen, but if it did, he said, US national security would not be damaged.

"We can't afford to waste it."

Don't let the engine idle more than 30 seconds.
Avoid hot rod starts.
Keep your engine tuned.
Drive at a steady pace.

Explore the Technical World at IBM.

Come to our INFORMATION AND SIGN-UP DAY Wednesday, October 24th, 10 am-4 pm IN THE ASHDOWN HOUSE

IBM will be here in strength to give you blue carpet treatment. Representatives from many different IBM operations and locations will be available for informal, stress-free briefing sessions. You'll get a good idea if there's a promising fit at IBM.

Then sign up to schedule a formal interview on Thursday, October 25th or Friday, October 26th with the IBM facility (or facilities) of your choice. Please bring 3 copies of your resume or Personal Data Sheet. U.S. citizenship or permanent residence is required for interviews. (Whether or not you're at our Information and Sign-Up Day, you are invited to hear a special IBM interview techniques presentation on Monday, October 22nd in Room 4-270 from 7:30-8:30 pm and a technical marketing careers presentation on Tuesday, October 23rd, in Room 4-159 from 7:30-8:30 pm. Refreshments will be served at both presentations.)
Independent Activities Period will celebrate its fifteenth anniversary

By Brian L. Simmons

The Independent Activities Period is renewing the status of IAP and will send students to the Cambridge Educational Policy (CEP) a final report sent with the Preprofessional Advising Office, and the Peace Corps. The committee is preparing a preliminary report for the CEP in November, as noted. The HASS curriculum was never like this. Going to school in Cambridge was never like this. If you like Cambridge, you're going to love Bolt Beranek and Newman (or "BBN" as we're better known). We're one of the world's leading centers for research and development in multiprocessor architecture and programming, expert systems, speech processing, architectural and underwater acoustics, natural language interface, and basic and applied artificial intelligence. And, we do more than R&D. We're a market leader in packet-switched data communications; we've built some of the most sophisticated data networks in the world for companies like Wang and MCI. We've developed a software package for scientific and engineering research that's unmatched in the industry (it's called RS/1), and its coming soon to Project Athena.

We'd like to introduce ourselves, show you around, and let you talk to some of the MIT graduates who have made the move from Kendall Square to Fresh Pond Circle. If your major is in the physical or computer sciences, it's an opportunity you shouldn't miss.

BBN's Open House for MIT Students

Time: 3:00-5:30 p.m.
Transportation: 2:30 p.m. pickup in front of the Administration Building Main Entrance on Mass Ave. (Bus transportation provided by BBN)
Signup: Office of Career Planning and Placement by Thursday, October 18.

For further information call Marianne Kovic at BBN, 497-3288.
Announcements

Randy Winchester of MIT Cable TV is looking for volunteers who would be interested in founding a new TV channel to promote art and entertainment. Possible programming could include art exhibitions, film festivals, or book clubs. Suggestions for programming ideas would be welcome. Those interested should contact Randy Winchester at x3-7431, Room 9030.

Seniors who wish to apply for the MIT Postdoctoral, Resident, and Cooperative Research Associateship Programs during 1985 are urged to apply by November 1, 1984. Applications may be picked up in Room 30-444 on 10.

The MIT Speech and Debate Society is sponsoring a Full Speech Contest. Winners will receive cash prizes. We are now canvassing the MIT student community for interests and suggestions. If you have the slightest interest in talking for fun and profit, call Lisa x3-922, Nick x3-6338, Mary x3-6334, or Christine x3-8360.

The Christian Science Monitor is sponsoring an essay contest challenging its readers to come up with possible scenarios that could lead to world peace in the next 25 years. Students and faculty at colleges and universities around the country are also invited to participate. Participants might consider such factors as economic conditions, the role of moral leadership and world armaments. Entries will be judged on the feasibility of the ideas they contain and will be expected to show a knowledge of the framework of international relations in the world today and the process by which those relations are fostered. Entries of no more than 3,000 words, in English, French, German, or Spanish will be accepted. The best three will be printed in The Christian Science Monitor. Entries should be postmarked late than December 31, 1984 and sent to PEACE CONTEST, The Christian Science Monitor, One Norway Street, Boston, MA 02115.

The National Research Council announces the 1985 Postdoctoral, Resident, and Cooperative Research Associateship Programs for research in the sciences and engineering to be conducted in behalf of 21 federal agencies or research institutions. Approximately 250 full-time associateships will be awarded in almost the earth, environmental, physical, space, and life sciences. Most of the programs are open to both US and non-US nationals, and to both recent Ph.D. holders and senior investigators. Awards are made for one or two years with stipends beginning at $23,350 a year for Ph.D.s and an individual determination for senior associates. Postmark deadline must be no later than January 15, 1985. Information on specific research opportunities and federal laboratories, as well as application materials, may be obtained from Associateship Programs, Office of Scientific and Engineering Personnel, 600-D3, National Research Council, 2101 Constitution Avenue, N.W., Washington, D.C. 20418, (202) 334-2760.

For runners looking forward to the numerous marathons this fall but not the arduous solo training sessions, the MetroParks Running Center in Boston has an answer. On Sundays at 9 am, runners training for marathons can get together and run long distances of 15 to 22 miles. Open Monday through Friday from 7 am to dusk, the Running Center offers changing rooms and showers free of charge. For further information, call 513-9146.

Launch hour: Throttles are at full power as a supersonic tour sweep pasts the flight deck and ascends into the pilot.

The catapult fires and G Forces where you back into your seat. Seconds later, you’re punching a hole in the clouds and looking good.

Navy flying. And no other job can match the kind of management, technology, and excitement you get quickly in the Navy.

The rewards are there. Too. Accumulate your air travel opportunities with a great starting salary of $18,200. As much as 40 years to earn promotions and pay increases. Take off for tomorrow in the Navy. With top level training to help you build technical and managerial skills. You’ll use for a lifetime. Don’t just settle into a job; launch a career. See your Navy Recruiter. CALL 800-327-NAVY.
The circus comes to town

By Amy S. Gorin

An estimated 200 people crowded the corners of Massachusetts Avenue and Vassar Street on Tuesday night to watch the Ringling Brothers and Barnum and Bailey Circus move its animals from the circus train to the Boston Garden.

The animals arrived in Cambridge by train Tuesday afternoon along with the rest of the troupe. The train, in which the performers are housed, will stay on the Conrail track near Vassar Street while the show is in Boston. The animals are being housed at the Garden itself.

The circus train usually stays at North Station, but a fire at that site earlier this year forced a change of plans.

The first animals to be moved were the tigers, whose cages were towed off a railroad flatcar and down Vassar Street shortly before 6 pm.

The procession briefly blocked traffic on Massachusetts Avenue while the cages were moved across the street, and caused further delays as drivers slowed their cars to get a better look at the animals, despite the pleas of police at the scene.

Shortly after dark, the elephants, the horses, a camel, an llama, and their handlers began the walk. Their spectator-lined route took them through Kendall Square and across the Longfellow Bridge.

The elephants, for which most of the crowd was waiting, were expected to walk to the Garden at 6 pm. They did not leave the train until almost 2 hours later. None of the spectators gave up and went home.

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Behind the scenes

Tech photo by Sherry K. Lee

Tech photo by Ken Flowers

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Tech photo by Ken Flowers
ARTS AT THE CIRCUS

Even outside the arena it was obvious that this was no ordinary Boston Garden show. Maybe it was the circus music on the sound system that gave it away. Or maybe it was the voice which kept interrupting to announce that "cotton candy candy is delicious and fun for the whole family." Whatever, the Circus was in town, and Bostonians would have been proud.

The show started off with a bang, or more precisely, with "Ladies and Gentlemen and children of all ages," a bang, a puff of smoke and the Pink Panther: The Pink Panther? Yes, Virginia, the Pink Panther.

Ringling Brothers has adopted a cartoon character. I suppose, as my program says, he is the perfect circus clown. And the show girls do look cute in little pink ears. But it seems sacrilegious, this mixture of fantasies. It's almost as inconceivable as giving THE GREATEST SHOW ON EARTH a bad review.

The first display was the Urias troupe in "The Globe of Death." The globe is a 16 foot diameter metal mesh sphere within which — by virtue of acrobatic prowess, nerves of steel and inertia — two motorcyclists chase one another at "blinding speeds of up to 60 miles an hour." The act is truly impressive, and was well produced and performed.

The Urias troupe was followed by a tumbling display, then three rings full of animal acts. Animal acts are rarely spine-tingling, and these were no exception. Kings one and two contained baboons and chimpanzees respectively, who made up for their lack of ferocity with an excess of cuteness. In the third ring, Mark Oliver Gebel presented goats.

According to my program there has never before been an act using trained goats. There may be a reason for this. The time and effort required to train any animal is considerable, and the goats' performance was without fault. The family's talent was further made evident by a three-ring horse act presented by Gunther Gebel-Williams (Mark's father), Sigrid, and Tina Gebel. However, somehow goats are just not glamorous.

Glamor was on its way, however, thanks to three aerial acrobatic acts; Satin, The Anconis Duo, and Miss Lisa. While all three were equally death-defying, and as breathtaking as anything I saw in the Olympics, it was Satin that stole the show. Satin's two performers (Denise Aubrey and Pamela Hernandez) are not only bril-liant aerialists, they also have a wonderful choreographed act and an awareness of each other's bodies that many performers lacked. Some of the other acts seemed to be going through their paces like Gebel-Williams' horses. Aubrey and Hernandez had two of the few smiles which did not fade with the spotlight.

Two other shining stars were the Carillo Brothers, a high wire act from Colombia. The team's antics on the wire mucked the announcer's stage-whispered expressions of awe. While it was obvious that the floor below could at any moment be carpeted with re-circus performers, it looked like the Carillo Brothers' hardest task was to keep from making it all look too easy.

Gunther Gebel-Williams suffered from a similar handicap. He is reputed to have required more than 500 stitches during his career as an animal trainer. Nevertheless, his tigers looked more cranky than fierce. Last but not least, there were the clowns. What can you say about clowns? Whether juggling, unicycling, tumbling, breakdancing, being harassed by trained dogs, or just getting children to laugh, they were wonderful.

Even the cotton candy wasn't too bad.
Good Money


Reality and Rhetoric will not be a popular book. Bauer is an economist who, as far as I can determine, has never been advised on his foreign development work by Lord Bauer, a professor at the London School of Economics, spends a large amount of effort in his book explaining the lack of results attained by the programs recommended by developmental economists. Bauer, who does a decent job of specifying to us the actual damage they may have done.

It is difficult to find a niche for this book. It is written above a lay level and yet contains insufficient detailed examples to be considered a definitive study. Lord Bauer would likely contend that his enthusiasm to treat the entire mindset and direction of present day developmental economics to critical review. Unfortunately at 103 pages, the book just cannot cover all of the many topics.

This is not to say the work does not have a lot to offer. Bauer offers a long way toward scraping some of the more general theories of developmental economics, such as "poverty begins poverty-

The necessity of importing tariffs and the need for developing infrastructure as a prerequisite of industrialization.

There is much to recommend this book. Bauer uses extensively throughout the book are based on actual data from the World Bank in South and Southeast Asia and in British West Africa. He compares the statistics of these two areas both before and after World War II. In each area, extensive controls were placed on the economy, and the anarchy of the war. However, once the war was over, these controls were relaxed. Where the standards of living were not attained immediately, many of the controls were adopted by the govern-

ments.

Lord Bauer uses these two case studies and results of economic changes with financial aid to the MIT Symphony tonight and going from the MIT Symphony Orchestra tonight. . . . Another Boston Baroque banquet is on of-

Schenck presents Rock Fest tonight from 9

ofaran. admission. Full information call

2B3-5248. for information.

The MIT Community Players will continu-

their series of staged readings tonight at 7 p.m. in Sanders Theatre. For information call form Ispini Reznor by Frank A. Shaf-

tton. The Boston自主品牌es. Witten. Admission is free. For more information call 233-2200.

Banchetto Musicale, one of Boston's ex-

ceptional Italian clubs, will give its annual form Ispini Reznor by Frank A. Shaf-

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The classic Around the World in Eighty Days will be shown by LSC at 7:30 tonight to 10:25.

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The classic Around the World in Eighty Days will be shown by LSC at 7:30 tonight to 10:25.

... 
Saturday, October 20

One of the young poets great strengths is literally on your doorstep. The MIT Sym-

phonic Orchestra, exceptionally talen-
ted ensemble, providing, under the leader-

ship of conductor David Epstein, some-1

times and frequently thought-provoking inter-

pretations of a thrown works; tonight at 8:30 the orchestra will perform Beetho-

ven's Symphony No. 4 (Pastoral), Rade-

macher's Piano Concerto No. 2, with Daniel Goodman at soloist, and Stra-

szek's Capriccio. With the Boston Orchestra will perform instruments. Drop anything else you have been looking forward to this.

Breaking Away, a marvelous film about bicycles and pythons, will be screened by LSC tonight at 7 and 9:30 p.m. in Sanders Theatre.

Another Boston Baroque banquet is on of-

fer tonight from the Boston Baroque at 8

pm in Sanders Theatre at the Harvard Union. The Boston Baroque will sponsor a cycle and eat and it too by going to the Cantata's twentieth birthday party to be held at Sanders Theatre tonight at 8 pm.
Cleveland Orchestra

Cleveland Orchestra, October 15 at Symphony Hall, Boston Symphony Orchestra, October 18 at Symphony Hall. The BSO conducts three pieces at 2 pm and 7 pm, October 8 at 8 pm. Rush tickets cost $5.

The Cleveland Orchestra’s conductor, Christoph von Dohnányi, led the ensemble in a concert presented in Symphony Hall on Monday night.

The program began with an account of the 1st Brandenburg Concerto in D as fresh as one could wish: fine balance combined with gentle touch and ease of flow added renewal to the listener.

Berthoumey’s Great Fugue in B flat, opus 133 was planned as the last movement of the Season Opener, violin, and Bernard Greenhouse, cello, bringing a sense of completion and a feeling of triumph as they exited the stage together.

The Boston Symphony Orchestra, under the baton of Seiji Ozawa, opened the second half with Beethoven’s Piano Concerto No. 4, in G major, with Ma Yei Ma cast in solo role. It is not an usual work but, despite unrecognizable references to the Baroque, there are elements that betray the essential Schubertian touch. Harmonies wander in time up and beyond the orchestra as the minute themes were cast aside to present an elegant yet powerful sound on a light bright background for the thrust of Ma’s virtuosity. The performance fell into place as expected with each artist scurrying about in beautiful harmony. The final explosion of sound.

The concert ended with a lovely and lively and, if anything, fresher than on the first night.

The Boston Symphony Orchestra’s performance of Schenker’s unusual composition was an unusual experience. The combination of the orchestra and conductor is a long awaited event. It was good to see the sense of unity and, if anything, fresher than on the first night.

The concert ended with a lovely and

Beaux art

Beaux Arts Trio, October 17 at 8 pm, Sanders Theater. The trio, comprised of piano, violin, and cello, introduced a unsuspected manner of expressing themselves on stage, and brought a fresh approach to the audience.

The Beaux Arts Trio played to a packed house with a blend of harmonies that finally blur together in one

Along with the Nábohochna Orchestra, whose concert was reviewed in the last issue of The Tech, several other groups are recognized as the forerunners/standard-bearers of the fusion flame. Their albums produce as much enjoyment from listening to the well-crafted and often crazy tunes the bands come up with as sheer awe of the skill every instrumentalist displays at the well-crafted and often crazy tunes the bands come up with as sheer awe of the skill every instrumentalist displays at the well-crafted and often crazy tunes the bands come up with as sheer awe of the skill every instrumentalist displays at the well-crafted and often crazy tunes the bands come up with as sheer awe of the skill every instrumentalist displays at the well-crafted and often crazy tunes the bands come up with as sheer awe of the skill every instrumentalist displays at the well-crafted and often crazy tunes the bands come up with as sheer awe of the skill every instrumentalist displays at the well-crafted and often crazy tunes the bands come up with as sheer awe of the skill every instrumentalist displays at the well-crafted and often crazy tunes the bands come up with as sheer awe of the skill 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Great price on Ruggedwear by B.O.G. flannel shirts

Comfortable and warm plaid flannel shirts team up well with your favorite jeans or casual pants. Of cotton-polyester, Sanforized for shrinkage control. Detailed with two button-flap chest pockets. At savings like this, you'll want to buy several in colors to round out your wardrobe. S-M-L-XL.

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Outside Looking In
By V. Michael Bove

Knock Knock

I'm Rye. I'm six. I'm a third grader. I'm supposed to be on the back porch with my Dad. But I'm looking for him when he's in the kitchen. He says he's going to be done with work soon. I'm just going to look for him and see if I can help him.

I'm looking for him and I'm a little bit scared. I'm not sure if I'm supposed to be here. I'm not sure if I'm supposed to be doing this.

I'm just looking for him and I'm a little bit worried. I'm not sure if I'm supposed to be doing this. I'm not sure if I'm supposed to be here.

I'm looking for him and I'm a little bit scared. I'm not sure if I'm supposed to be here. I'm not sure if I'm supposed to be doing this.

I'm just looking for him and I'm a little bit worried. I'm not sure if I'm supposed to be doing this. I'm not sure if I'm supposed to be here.

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PHOTO CONTEST

We're having a photo contest and everyone in the MIT community may enter. The results will be published in Technique 1985 and displayed at the Wiesner Student Art Gallery.

Rules:
1. This contest is limited to members of the MIT community, who must not be professional photographers. All photos entered must have been taken by the entrant. Members of Technique are not eligible.

2. Please submit only black-and-white 8" x 10" (or smaller) unmounted prints. Write your full name on the back of each print. With your entry, enclose a sheet of paper with the following information: your full name, your affiliation with MIT (if you are a student, write your year; if you are a staff member, write your office number and extension), your address, and your telephone number. You may enter up to 3 prints.

3. Send your photos to:
   Technique Photo Contest
   W20 - 451
   84 Mass. Ave.
   Cambridge, MA 02139
   (If you mail your entry, please pack a piece of stiff cardboard and write "DO NOT BEND" on the envelope. We don't want your photos to get hurt.) You may also drop your photos off at our office — Student Center Room 451. In either case, we must receive your entry by 5 PM, November 10, 1984. If you wish to have your entries returned, please enclose a self-addressed envelope with proper postage.

4. All entries will be judged by members of the Technique Managing Board and other distinguished members of the MIT community. Judging will be based on the following criteria: artistic merit and originality, composition, and technical quality. The decisions of the judges will be final.

5. Photographs may be of any subject in the universe, living or not. You may use any form of darkroom manipulation or multiple-negative printing.

6. Technique 1985 retains first publication rights (i.e. the photos may not have been previously or concurrently published or entered in any other contest, newspaper, magazine, journal, or book) of all winning entries. The photographer will retain all other rights to his entries. Winning entries will be published in Technique 1985. Technique also reserves the right to exhibit all photos entered in the Wiesner Student Art Gallery.

7. Prizes:
   First Prize: Winner's choice of an Olympus XA camera or a $100 gift certificate at your favorite photo store.
   Second Prize: Winner's choice of a Redi-Tilt PRO tripod or a $60 gift certificate at your favorite photo store.
   Third Prize: Winner's choice of a Vivitar 283 electronic flash or a $40 gift certificate at your favorite photo store.
   * Only one prize will be awarded per entrant.

Get your picture taken! Sign up in Lobby 10 today or call Technique.

Portraits will be taken next Monday October 22 - Friday October 26 and Monday October 29 - Friday November 2, 9:00 AM to Noon, 1:00 PM to 5:00 PM. It will take about 5 minutes to get shot, but please come to our offices in Student Center Room 451 about 10 minutes early. There is no charge for the sitting if you buy Technique 1985 at that time ($20), but there will be a $3 sitting fee if you do not. RETAKES: Sign up for a sitting as above, and bring $3 as a retake fee.
Listings

Student activities, administrative offices, academic departments, and other groups not on the MIT campus — but on and off the MIT campus — can list meetings, seminars, and other announcements in The Tech's "Notes" section. Send items of interest (typed and double spaced) via Institute mail to "Notes, The Tech," room W30-483, or via US mail to "Notes, The Tech, PO Box 29, MIT Branch, Cambridge, Massachusetts 02139." Notes run on a space-available basis only, priority in giving official Institute announcements and MIT student activities. The Tech reserves the right to edit all listings, and makes no endorsement of groups or activities listed.

Saturday, Oct. 20


Tuesday, Oct. 23

A panel on "Careers in T.V. and Radio Broadcasting," sponsored by the Jewish Vocational Service, will be held from 7:30-9:30 p.m. at German Jewish Community Campus, 333 Nahant Street, Newton Centre, MA. Admission is $5. For more information, please contact Gill Liebher at 396-7940.

A cognitive science seminar entitled, "Boltzman Machines: Constrained Satisfication Networks that Learn," sponsored by the MIT for Cognitive Science, will be held at 7:30 p.m. in the Coltrane Conference Room 34-401. The speaker will be Geoffrey E. Hinton, Dept. of Computer Science, Carnegie-Mellon University. Copies of the paper are available upon request from Karen Persinger, 20B-225, x3-7358.

Tuesday, Oct. 24

MIT Student Pugwash is sponsoring a forum to discuss MIT's request for exemption from the Right to Know Law. The forum will be at 5 p.m. in room 4-270. Representatives of the Massachusetts Department of Health and MIT will attend. Everyone is welcome. For more information, call x3-1110.

The Quality of Student Life at MIT: the second in a series of forums sponsored by the Office of the Dean for Student Affairs. The meeting will be held from 4:30-6 p.m. in the Mezzanine Lounge at the Student Center. Let us hear from you!

An informational meeting of the MIT European Club will take place in the Mezzanine Lounge at 7 p.m. your own drink. Members and non-members welcome.

Thursday, Oct. 25

A seminar entitled "The MIT Communications Problem," sponsored by the Communications Forum, will be held from 4:30-5 p.m. in the Marlie Lounge, Room 27-252, 70 Vassar Street, MIT. The speaker will be David Clack from the MIT Laboratory for Computer Science. For more information, call 375-2839.

Friday, Oct. 26

"U.S. Elections and the Middle East" will be the topic of a talk by Elaine Haggopian, professor of political science at Simmons College. Sponsored by the MIT Committee on the Middle East. The talk will be at 3 p.m. in Room 205-205. For more information, call Mark Anderson, x5-9748.

The Family: Ideology and Reality, will include speakers Kate Ellis of Rutgers, Louise Rice, and Teis Ewing. This event, sponsored by the Black Rose Lounge, will be held at 8 p.m. at 105 Mass Ave., MIT Room 9-150.

Sunday, Oct. 28

WBZ's 3rd Annual Halloween Live Monster Dash Road Race will start at 12 noon at Jimbo's Shanty. All proceeds will benefit Children's Hospital. Also, immediately following the race, there will be a "Dash Bash" celebration party for the runners. For more information, please contact Donna Howard at 926-8231.

Tuesday, Oct. 30

A career workshop on "Interviewing: For Information Only," sponsored by the Jewish Vocational Service, will be held from 7:30 to 9:30 p.m. at German Jewish Community Campus, 33 Nahant Street, Newton Centre, MA. Fee is $15. To pre-register, please contact Meryl Glatt 729-2846 or Emily Kirshén 963-7940.

President Gray will hold open hours from 3:30-5 p.m. Any member of the MIT community may schedule a fifteen-minute appointment on a first-come, first-served basis by calling x3-4665 or stopping by the reception area Room 3-209. Appointments may be made only on the day of the open hours.

Ongoing

Do you like to read? Do you enjoy music? Become a S*T*A*R volunteer. School Volunteers of Boston offers orientations and support to college students who have a few hours per week to spend with elementary, middle or high school students in schools convenient to college campuses. For information, call 311-645 or visit our office at 35 West Street, downtown Boston near Park Street.

Students and faculty are cordially invited to flex their vocabularies at the Boston Scrabble Club — every Monday evening in the Chester Lofts of the Jackson- Mannus Community School, Union Square, Allston. The club features "social Scrabble" for serious newcomers, as well as officially-rated competitive play for the real addict. Club hours are 6:30 to 9:30 p.m. For more information, contact F.G. Kaufman at 784-3325.

Friday, October 19

Pep Rally
Kresge oval
free muchies, soda and music

SCC Rockfest
Sala de Puerto Rico
free entrance, beverages available
live bands: The Drive, The Outlets

Saturday, October 20

Tailgate picnic sponsored by DornCon 11:30 AM - 1:30 PM
Barbecues at Athletic Center
free food, $1/ person beer music

Homecoming Football Game
Steinbrenner Stadium
Alpha Delta Phi Let's Go Crazy Party
9 PM - 1 AM
Walker Memorial
$3 MIT & Wellesley in advance, $4 all at door
munchies, beer, soda and mixed drinks
live band: Dub 7

Come to the 6th Annual Career Fair
October 20 12:00 - 5:00
Sala de Puerto Rico
Open to All

There'll be representatives from over 40 major companies!
For Information, call x3—2096

Career Fair Banquet:
October 19, 6:00 PM
Hyatt Regency
Speaker: Dr. Bernardine Bulkeley
Deputy Director, Office of Science and Technology policy

Sponsored by the Society of Women Engineers
Swann in Love

Swann in Love, directed by Volker Schlondorff, starring Jeremy Irons and Ornella Muti, at Copely Place. Presented on the screen: a long-standing challenge has finally been taken up. Un Amour de Swann, the source for the film, is a separate part of Marcel Proust's seven-volume life-work A la Recherche du Temps Perdu. Its hero, the wealthy bachelor Charles Swann, is a respected member of a high society Paris in the second half of the last century dominated by the ancient nobility. His sweetheart, the insignificant Odette, does not share his social stature. The change of the contents is matched by the difference in style. With Proust, realism reigned; the narrative starts with its dawn and stops with its final reconciliation, dismissing whatever interesting events may lie beyond either extreme. In his adaptation, Schlondorff abandons both the chronological sequence and the semiotic structure. From the very beginning, Swann is in love; what we see is Swann's obsession at its maximum. And after Schlondorff's Swann quotes, without obvious reason, the final sentence of the narrative expressing the end of his addiction, we are shown seven pages taken from later parts of the Recherche, in which Swann turns out to have married Odette.

The change of the contents is matched by the difference in style. With Proust, reality (fictional or not) is merely material for the contrary, which in this respect is closer in spirit to Zola, say, than to Proust. Occasionally, elements of the novel are caught nicely, as in the scene of the supper on the terrace of the Opera, in which the atmosphere of the Vedettes du (of which Odette forms part) is struck in a concise and elegant way. But in general, if you are looking for Proust in this movie, you are likely to be disappointed.

Much care has been bestowed on the background of the action, and setting, scenery and costumes produce a visual image which is mostly agreeable, and delightful in places. I found the acting mostly extraordinary, but Alain Delon does a good job in portraying the outwardly polished, internally passionate Baron de Charlus. The film is more or less self-contained, although details may elude someone unfamiliar with its cultural setting. Some points disappear in the noise of the translation (the movie is in French, subtitled), as when Odette's characterization of an antique interior as "moyen-ageux" is rendered simply as "medieval."

The translator reproduced what Odette implies as "medieval."

Editor: Robert Jay Lifton

New Harvard Paperbacks

In a Dark Time: Images for Survival

Edited by Robert Jay Lifton and Nicholas Humphrey

With the words of poets, philosophers, politicians, and ordinary people, In a Dark Time presents a unique view of hope and courage for the nuclear age.

"In this brilliantly conceived anthology, Robert Jay Lifton and Nicholas Humphrey have produced a survival manual that is elegant, beautiful—and how to say—indispensable."

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$15.00. cloth
$5.95. paper

Promethean Fire: Reflections on the Origin of Mind

Charles L. Lamendardo and Edward O. Wilson

"Promethean Fire points the vitriol at the most distressing of our own minds, and comes on thus. Every page is Adventurously complex, the concepts come at you like laser beams."—Roger A. Caras
$14.95.

Jacques Lacan: The Death of an Intellectual Hero

Stuart Schuldmann

"It makes fascinating, witty—at times tragic—and necessary reading for those who want to know what happened once Freudianism came to France, and the history behind French thought."—Barbara Hofst Boorin
$9.95.

Letters to Molly

John Millington Synge to Malcom DeHill

Edited by, and David Sedaris

The letters 'begin on a querulous note, turn to passion, to bitterness, to woe, and finally to a mordant and pretty much the whole man, who for good reason need not be named, who befriended him. W.B. Yeats, and put him on the road to immortality."

$7.95. paper

Adorno

Martin Jay

"An admirable introduction to the thought of an incredibly complex writer. It presents that thought in lucidating, while avoiding the sort of facile simplification that Adorno himself would have detested."

—H. Stuart Hughes
$13.95.

The World, the Text, and the Critic

Edward W. Said

"Provocative and exacting, the essays provoke due interrogation of contemporary literary theory. The book issues from a remarkably sharp intelligence, forcing us to face questions and possibilities that ordinary theories on the whole prefer not to raise."

—Denis Donoghue, The New Republic
$7.95.
sports

Volleyball heads to Illinois for Elmhurst Tournament

(Continued from page 20)

The extra distance forces the offense's middle blocker to stay in place, giving the offense the advantage of having more options with the ball.

Aloman is already satisfied with her team's adjustment to the faster outside game. "Janette Karch '83 and Amella Musso '85 have proved to be an effective formula for the Engineers, hitting well on outside sets.

The Engineers hope the new game plan will lead them to the footsteps of last year's squad, all the way to California for the national championships.

Smith, the team's main setter, has also processed the system well, going from back row to front row setting other team members for spikes or blocking shots.

The Assumption Greyhounds defeated visiting Providence in three straight games on Oct. 19. The victory was the season's first for the Greyhounds, "As we head into California for the national championships, we're hoping to have a strong performance."
Volleyball rolls over Harvard, aims at Illinois Benedictine

By Paul Paternoster

The Engineer volleyball team upset its record to 19-3 Tuesday night with a straight set (15-3, 15- 12, 15-5) victory over cross-town rival Harvard University. Despite some occasional lapses in concentration, the Engineers were able to take advantage of Harvard's errors and easily defeat the Division III Crusaders.

The victory was satisfying for many of the MIT players, perhaps partly because of the long rivalry between the two universities.

"I like beating Harvard," Jen- ny Smith '86, the team setter, said of the rivalry. "The fact that this is a Division I school makes it even better."

The Engineers are currently ranked either tenth or eleventh in the nation, depending upon which poll is considered. The win over Harvard will help improve the Engineers' standing in the polls.

The team did not practice together prior to the game, but this did not appear to hinder their performance. The Engineers' strong serving and accurate hitting kept the Crusaders off balance throughout the match.

The Engineers' next game will be against the University of Pennsylvania on Saturday, October 19, at 7 p.m. at the Cambridge Recreation Center.

Dr. Bret Jordan, coach of the Engineers, said of the upcoming match, "We need to continue to improve our defense and work on our blocking. We want to be more aggressive in our defense and try to disrupt the Penn attack."