Kresge roof repair procedures outlined

By Tom Curtis

A four step procedure for analyzing and repairing Kresge Auditorium has been designed, according to William Dickson, Director of Physical Plant.
The procedure includes:
1) installation of monitoring points so the engineers can check the daily movement of the roof shell;
2) the placement of support posts for the edge beams;
3) the removal of the lead coating;
4) repair of the damaged concrete.
The first step was completed this week and the first set of comparative readings were supposed to have been available yesterday. Dickson said he did not expect these readings to show any major movement. However, Dickson said, "There will be movement when materials are removed from the surface.

While the first three steps are proceeding, engineers will be analyzing the intricacies and edge beams. Dickson said that is "a reasonable way for finding the general condition of the concrete."

After analysis of the concrete and the removal of the coating has been completed, the workmen can replace the concrete in places where there is damage. All the work on the roof including this spring's installation of a new copper coating is being done by the Macomber Company. Ken Leach, one of the Macomber partners, was involved in both the original construction of Kresge and the 1963 installation of the lead coating.

Monday afternoon, these four steps in the repair of Kresge were explained in a meeting in Kresge. At this meeting, the group was also told how to go about getting new space.

The space reassignment process will be handled by the office of Regional called. Accord- ing to Robert Hanham, Associate Dean for Student Affairs, at Monday's meeting, Hanham asked the group to think about what facilities can be converted to accommodate for their programs. Hanham's office will be divided with groups in the coming weeks.

Louis Menard, Special Assistant to the Provost and head of the Facilities Use Committee, told the groups MIT would first try to find space for them on campus and then inquire with other colleges by trying to use "brownie points" MIT has accumulated over the years. As a last resort, Menard said, there would be an outside hall.

Menard also outlined the priorities which are used for assigning space. MIT. He said academic needs have first priority, regular student activities are next, and programs which MIT hosts have lower priority.

MIT schools have financial difficulties

By David C. Lingelbach

The Engineering, the largest school at MIT, is operating "very close to the margin," according to Robert Seams, dean of the school. "It is a very delicate balance to meet the budget," he added. The reason for this has been that enrollments haven't been coming at the same rate as they used to, and that the engineering school has "been very successful at raising money."
Seams couldn't explain why funds weren't being raised, however, since the engineering school has very loyal alumni with a "remarkable capability for raising funds," and because he felt the funding process was basically a good one. Seams added, "the engineering school was not getting a proper share" of the funds of the 80 million fundraising campaign.

In the future, Seams predicts expenditures at both the undergraduate and graduate levels, as in other engineering buildings and redistribution of the course 6 program. The Dean did not, however, predict when this expansion could take place.

Dean of the Sloan School of Management, William Pounds, says that his school's financial situation is "roughly similar" to that of MIT. "The Sloan school is looking to operate at a deficit this year," said Pounds. "We can only raise more money," said Robert Alberty, Dean of the School of Science. He explained that the science school's needs are to build new buildings and that all of his departments need more space.
Dean of the School of Humanities & Social Sciences, Harold Hanham, is faced with special financial problems of his own. He explained that his school is the "worst hit" financially of all the schools. Hanham said that the school is struggling to ensure that graduates get the best places when they graduate from MIT. In spite of all that, MIT had some of the finest programs in the nation in political science, economics, psychology, philosophy, and music, he added.

According to Hanham, the main problem in his school has been the depletion facilities with which the students have had to work. He indicated that new facilities were needed for music (especially with the closing of Kresge), psychology, political science, and social work, which have "humanities library," and psychology.

Hanham said his school's bad financial position in mainly due to the fact that his school receives little or no research funds, as compared to the science and engineering schools, where 25- 30% of their funds come from research. He did point out, however, that MIT is "one of the best-run financial institutions in the country" and that the fund raising process is a "very humane system with a great deal of flexibility."

Vice President for Financial Operations, John Currie said that although there have been "modest surpluses" for the past two years, there would be no such luck this year. He explained, "is mainly due to the energy crisis."

MIT is a "fiscally conservative institution," according to Currie, especially when compared with some of the other Ivy League schools, and a well-financed financial corporation.

Kresge roof repair procedures outlined

Clamshells to occupy Seabrook

The Coalition for Seabrook, one of the four environmental groups occupying buildings at MIT in protest of the construction of nuclear power plants, has been joined by representatives of the College of Social Sciences and Humanities. The Coalition, according to Robert Holden, Associate Dean for Student Affairs, has plans for a complete occupation of the Carrington Center, and the group's plans include the occupation of the "community." According to Holden, "The Coalition wishes to hold all future construction of nuclear power plants and to shut down existing ones."

The only communications that the Coalition has has with New Hampshire authorities has been on a one-line level that the group sent, stating their intention of occupation.

Although violence on the part of the police is not expected, due to the unfavorable publicity that the state would receive, occupants are being taught to deal with tear gas, high pressure water hoses, and physical attacks.

CDAS is arranging to have religious and other neutral observers present during the occupation to ensure that any violence on the part of the authorities would not go unnoticed.

The Clamshell Alliance, was formed in 1976 to actively oppose the proliferation of nuclear power. Their support is solely on a "grass roots" level.

The MIT Golf team defeated Tufts and Northeastern in the last two weeks and is now one of the ECAC Regional Tournament.

The Kresge roof was an item of controversy again as discussed in Looking Back.
Looking Back

Kresge roof has history of problems

Editor's note: A good deal of testing preceded the choice for the present lead roof on Kresge, as was reported in two articles in The Tech. The first ran in the October 11, 1961 issue and the second in the October 29, 1962 issue.

The egg is going to get a new shell!

However, "the egg" refers not to the product of a chicken, but to product of Erno Scattoni, who designed the unusual Kresge Auditorium. "The shell" refers to the proposed new roof for Kresge. Or, more correctly, the new roof covering.

The original covering of the roof was a combination of stone and concrete, which had an unusual purpose. It seems that when you sit on the Charles River for a short stay, you can line up the dome of the auditorium with the domes of building 7 and building 10. Because of this, the Institute wanted the three domes all the same color. Thus, the stone.

However, the roof, being one-eighth of a sphere, is subject to some unusual temperature conditions.

For example, in the winter, even though the temperature around it may be 20° or colder, the sun shining on the dome may raise its temperature to the vicinity of 80° to 100°F. In itself, this can produce some unusual effects if the other side of the roof is covered with snow.

Moreover, when the sun sets, the roof is subjected to a very sudden temperature change, causing it to contract suddenly, and often-times cracking it. Thus, over the six years the dome has been in existence, it has weathered very much and is in very poor condition.

Before repairing the dome, the Institute wanted to test the proposed materials before putting them on and risking the waste of money. Thus, two mockups have been built.

It may seem to some that the lead would make a very heavy roof, but the facts of the matter are that the concrete was so thick that the lead is actually lighter. Thus, not only will the new roof withstand the weather better, but also will not put so much stress on its supports.

Now there is only one problem left. The building won't match the other domes.

Contractors and Physical Plant officials are doubtful that the work on the dome of Kresge Auditorium will be finished by the time winter weather sets in. Dick Collins, administrative assistant to the director of the Physical Plant, said that at least two months with favorable weather would be needed to complete construction.

Workmen have been covering the dome with lead sheets since the middle of September. Expansion and contraction of its outer surface has been giving the Physical Plant trouble ever since Kresge was built in 1955.

Six months after the building was completed, the dome's concrete outer cup and outer coating began to crack. A new plastic coating proved to be ineffective.

After five years of experimenting, Physical Plant experts and representatives of the architect and general contractor decided that lead sheets would provide the best covering.

Last year, the south corner of the dome was covered with a prototype of the present covering. At the same time, the corner facing Rockwell Cage was covered with a special type of lead shingle.

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Mas erati Merak or Lamborghini Silhouette?
Announcements

Transcripts with summer session 1979 included will be available September 24, 1979.

Applications for advanced degrees in February 1980 must be returned to the Registrar's office, E19-335, by today.

The Experimental Study Group still has a few openings for freshmen this fall. If you are interested in studying GIR's for your own pass, there will be a more flexible schedule, or would like to be part of a small academic community with ready access to staff, consider joining ESQ. Stop by 24-612 to visit (we're open 24 hours a day) or call Holly Sweet at 3-7766 for more information before October 12th (the deadline for joining this fall).

Freshman ID's and pictures are available in the Office of Freshman Advising, 7-101, and should be picked up as soon as possible.

MIT Seniors interested in university teaching who plan to start graduate school next September are eligible for a Danforth Foundation Predoctoral Fellowship Award. A similar award is available to graduate students pursuing their doctorates. The application date is October 19. Interested students should contact Dean Jeannine Richard in the Graduate School Office, 3-136, x3-4869.

Students interested in volunteering to work in the Cambridge Public Schools in all aspects of the curriculum from the high school through to the elementary level should call Cambridge School Volunteers at 498-2218.

The Northeast Personal and Business Computer Show will be held at Hans Auditorium today through Sunday. The show opens at noon each day, and general adult admission is $5, which includes tech talks, free updates, and lectures by internationally recognized speakers. For more information, call 534-0000.

Lectures

Dominique Desantis, French historian, biographer, and journalist for Le Monde will be the first speaker in the Foreign Language and Literatures Section series on "The Political Role of the Writer in Twentieth-Century Western Society." Desantis's talk, in French, will be at 8pm on Tuesday, October 2, in room 37-252.

World

Ireland awaits Pope -- Pope John Paul II's visit to Ireland Saturday will mark the first time a Pope has ever visited that country. More than two million people are expected to see him during the 56 hours that he will be there.

Saudi pledge increased oil output -- Fahd bin Abdul, Crown Prince of Saudi Arabia, promised that his country, the largest exporter of oil to the United States, will maintain its extra oil production level for three more months. Analysts say the decision should stabilize world oil prices for the remainder of the year.

Nation

Carter writes Kennedy -- President Jimmy Carter sent Senator Edward M. Kennedy a handwritten note explaining that his statement that he does not "panic" in emergencies was not meant as a reference to Kennedy's Chappaquiddick incident, which occurred ten years ago.

Local

White declines Timilty debate offer -- Boston Mayor Kevin White has refused to debate challenger Joseph Timilty, claiming he is too busy with city affairs. "You don't run a city by debating," he said. Responded Timilty, "We want Kevin White, wherever he is, to come out and talk about the issues."

Zimmer to stay -- The Red Sox management announced that Don Zimmer will manage the Red Sox for the 1980 season, and that pitching coach Alvin Jackson was fired. Said Zimmer, "I'm tickled to death to be back. I think I could have been fired."

By Richard Sale

Weather

A flash of summer returns to Boston today. Under partly sunny skies, highs will reach 75-79. Increasing clouds tonight, with showers breaking out by morning. lows 77-81. For Saturday, mostly cloudy with occasional rain showers, heavy at times. Hogs 70-74. Rain decreasing at night, but not ending until early Sunday. Lows 53-57. Mostly clear Sunday, highs 66-70.

"It's not yet fall, but it's more than just another day. If it's not 75 today, I don't know when it will be."

If it's not 75 today, it's not fall. If it's not 75 today, it's still heat. If it's not 75 today, it's not summer. If it's not 75 today, it's not an excuse to wear shorts. If it's not 75 today, it's not comfortable. If it's not 75 today, it's not a good day.

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The strain of rush: can it be eased?

Residence/Orientation week is only four weeks behind us, and for most freshmen, it is fast becoming a memory. Although the emotional strain or cultural transition of the rush process on freshmen marks much more than a week, many freshmen voice their incredible or resentment at the rush process, it is gradually forgotten. Many freshmen are now quite comfortably settled, and classes become primary concerns. After undergoing it for the first and only time, there is little to motivate anyone to take a serious look at how rush affects freshmen. Rush, their first week on campus and what improvements might be made.

The pressures of rush

Rush is clearly not an "emotional strain" or "cultural transition" for everyone. Many freshmen arrive intact. Living in a dormitory for the first time there is little pressure. R/O week is relatively carefree. Similarly, many freshmen interested in fraternities are more promptly "grabbed" by their peers than by their own curiosity. Yet for many such a rush is a hectic, unpredictable strain. Rushing, being wrangled by competing groups, pressure, and the general feeling of not knowing where you are going to live in very trying. Particularly up-setting for freshmen is "waiting for the bid that never comes." Most freshmen are "uninvited" or "kept on hold." Even the frequency they expected to bid. After investing a day or two at a seemingly respectable fraternity, a few freshmen became "scrubbed." It is an inherent flaw in rush that strongly disappoints those unlucky few.

There is a tendency to belittle this aspect of the rush process. We do not like to talk about it. What about those that feel "screwed?" "Well, life is unfair." I have discussed this problem with fraternity members, rush chairmen, and freshmen. Frequent participants acknowledge that the press of rush makes it very difficult for freshmen to really relax and enjoy it.

Other schools different

Coming up with ideas and solutions is difficult. Many freshmen ask why rush needs to be conducted so soon after they are welcomed to MIT. The stock answer: the housing shortage necessitates getting freshmen located as soon as possible. Contrast this with other universities. "Rush" there is a minor; it is seldom more than a second semester. pledges" move into fraternities at the beginning of their sophomore year. All freshmen live in dormitories, with more upperclassmen, in turn, in the fraternities.

Could such a system work at MIT? Probably, but the transition from the present to the conventional system would be problematic. Obviously such a change will not occur - the IFC and MIT will oppose it vehemently - nor do I think it should. But if do feel that improvements could be made.

One problem which could be attacked is that of information. Reams of Institute garbage mail inundate the freshman before his arrival. Yet descriptive of the rush process, particularly flashy and frustrating jockeying, are inadequately described. The general sentiment among freshmen is that they do not know what will happen to them. But it is indeed this ignorance, this "what, why the hell is going on?" discomfort that makes rush such a drag.

Rush is not an "emotional strain" or "cultural transition," as the program is advertised. It is as much a step backwards to forced jockeying, as it is one of the problems that there will be such difficulty in one of the solutions that surfaced in one such meeting of a campus theatre group included holding each act of their next dramatic production, The Odyssey. In a different room of the Institute and asking the audience to travel from room to room over the course of the evening. All the details haven't been worked out yet, but one of the members of the group seem enthusiastic about it, claiming that the audience will sympathize with Ulysses and experience a "magical catharsis" at the end of the course, complete with blisters and sour feet.

While the debate whether or not it will move shows on the facade of McCormick Hall, and the group of members of the group, that with the inconvenience caused by the closing of the auditorium for the second time since its opening. It may try to arrange for the-Krege structural engineering firm to hold its board meeting in the faling auditorium with hopes that the roof will collapse.

Equally irate members of the MIT Concert Band might give a load rendition of the national anthem at the beginning of the board meeting, played from the Kresge Oval, complete with cymbals, kettle drums, and baritone, and prayers to heaven that the walls of Jericho will come tumbling down upon the heads of the misguided band. Apparently a small group of hard rock freaks in Bexley will be picked up, dragged to the nearest room over the course of the evening. One of the members of the group seems enthusiastic about it, claiming that the audience will sympathize with Ulysses and experience a "magical catharsis" at the end of the course, complete with blisters and sour feet.

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Artists are not needed to humanize engineers

To the Editor:

John Molliini's excellent front-page article in The Tech (September 21) revives the perennial question of whether or not the scientist needs the artist to "humanize" him. The realization has existed since the mid-nineteenth century that complex machinery would profit from a central role sooner or later in the lives of all mankind. The scientist, instead of being pictured as a concerned citizen anxiously weighing the possible social consequences of the latest mechanical invention, has often been thought of as a godlike power-hungry egoist eager to usher in any gizmo as long as it installed a sense of wonder. The artist has been deemed necessary to awaken the scientist to the importance of those aspects of life upon which the latter would insist such profound changes. Aspects towards which his brainchild may unwittingly pose a threat. Historically, this has meant nature and art, as well as those eternal values upon which civilized society must rest. Hopefully at MIT, there is no lack of respect for nature and art. Our Outing Club and Science Fiction Society are famous, the latter internationally so. Well-supported are our Symphony Orchestra and Shakespeare Ensemble, to mention our weekend films! The fire under which Hayden Gallery and the sculpture program have come in recent years is probably a sign of good taste, rather than its absence. "For art, MIT is truly amazing!" an undegrad recently told me. The average MIT student does not dislike art; rather he likes math and science more.

Whether or not scientists, such as those at MIT, need the artist as a barrier of supposedly civilized values depends entirely upon the values that the artist is advocating. If he is preaching disrespect for man and his achievements, the image of man as slave to sexual impulse, economics or environmental force: ethical relativism; the meaningless of life; the folly of moderation, self-restraint and humility; and conquest for the higher realms of thought such as are represented by scientific discovery and the political rights and institutions for which so much ink and blood have been spilled, then the scientist doesn't need him at all. I believe that the art world is plagued by these antihumanistic values to a greater extent than the scientist before us. I do not mean to say that but a few numbers at MIT explain why our students are easier to get along with than those on nearby campuses.

Physicists in the art world, attempting to 'humanize' the scientist, should first set about to heal themselves.

Rogel Koltb
Movies
My Little Chickadee, the Mid-Nite Movie, Saturday, Sept. 29 on the second floor of the Student Center.
This weekend's LSC lineup: The Boys from Brazil, Fri., 7 & 10, 26-100. It Happened One Night (Classic), 7:30, (10-2)-50. An Unmarried Woman, Sat., 7 & 10, 26-100. A Shot in the Dark, Sun., 6:30 & 9, 26-100.

Theatre
American Buffalo, the 1976 Ohio award winning play, is now playing at The Modern Theatre. Performances are Tuesdays through Fridays at 8pm, Saturdays at 7 & 10pm, and Sundays at 8pm. Tickets are $9.50 & $8.50 on Thursdays.

Performances will be in Horticultural Hall, at 300 Mass. Ave. in Boston. For more information call 267-5690.

Music
Jethro Tull at Boston Garden, Sunday, October 21 at 8pm. Tickets: $9.50 & $7.50.

The Invaders and Ground Zero at The Club, 823 Main Street, Cambridge, Saturday and Sunday Sept. 29 and 30.

The Lyres and The Inv Liktors at The Rat, 528 Commonwealth Ave., Boston, Friday, Sept. 28.

Lou Miami and the Kometnas at Canone's, 69 Broad Street, Boston, Friday and Saturday, Sept. 28 and 29.

Paul Rishell at Who's On First, 19 Yawkey Way, Boston, Friday, Sept. 28.

Trademarks and The Daves at The Space, 76 Batterymarch Street, Boston, Saturday, Sept. 29.

The Ramones and The Thrills at the Paradise, 967 Commonwealth Ave., Boston, Saturday, October 6th.

Have you ever noticed that you can’t spell discomfort without disco?

Don't you think that your opinions about music, theatre, books, art, and cinema are worth reading? If so, you should consider writing for the Arts department of The Tech. If you are interested, stop by and talk to us on Sunday or Wednesday nights.

The Tech arts
"The trouble with rock critics is that they are so full of shit." — Frank Zappa

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Warehouse sale. Sunday, Sept. 30, 10-8am — 2-8pm. Handblown display jars from Harvard Biological Museum are now marked 50% off original prices. Most are over 100 years old and range from 2" to over 5" high. Come to University Antiquarian, 129 Franklin St., Central Square in Cambridge or call Linda at 354-6962.

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MIT After Dark
Photos by Kevin Osborn

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Analysis

Football team okay, but...

By Robert Labarre

Yes, MIT did win its first football game in 79 years. Looking flawless in the first quarter and defensive for the remainder of the game, MIT showed us something. They showed us that given two components, MIT can win all the time. These two are (1) a little incentive, and (2) a shabby team to play against.

There is some talent on the MIT team. We will have to look at quarterback Bruce Wrobel G and running back Jeff Olson '81 in future games. Other players were surprisingly good, but let's not forget against whom we were playing.

Norwalk does not play football very well. Their defensive line is shabby and their offense in relatively mediocre in most aspects. Their running game is just as good as their passing, and both are poor.

MIT seems to do better when they run, although Wrobel comitted some very key passes. His 57-yard pass to Barry Jordan got a lot of attention from the crowd early in the game.

We're going to have to see if MIT play some good football teams to really evaluate the team's strengths and weaknesses. The only thing clear to me at this point is that they are much improved over the team of 79 years ago.

Football on deck

Friday
Water Polo, MIT invitational
Baseball vs. Mass. Bay Community College .......... 3:30pm
Women's tennis vs. Bowdoin ................. 2pm
Club football at Roger Williams .......... 7:30pm

Saturday
Water Polo, MIT Invitational
Women's sailing, Radcliffe Invitational .......... 9:30am
Baseball vs. Huskerford 12 noon
Cross country at Wellesley with Coast Guard .......... 12 noon
Golf at Phillips Academy. ... 1pm

Volleyball vs. Northeastern 1pm
Soccer vs. Trinity ................. 2pm
Women's tennis vs. Bates 2pm
Club football at Roger Williams .......... 7:30pm

Men's sailing, Danmark Trophy at Cast Guards
Women's sailing, Man-Labs Trophy Men's sailing, BU Invitation
Field Hockey at Framingham State

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Golfers triumph over Northeastern & Tufts

By Rich Aurchus

The MIT golf team is 4-1 after posting victories over Tufts and Northeastern during the past two weeks. The Engineers gave a somewhat disappointing performance in the New England Championships earlier this week, finishing near the middle of the 35-team field. On Monday the 17th, Tech defeated Northeastern, 428-433, but fell to Merrimack by three strokes, 428-425. Ned Emerson '81 led the scoring for MIT with an 81, and Doug Parigian '80 shot 83. On Friday the 21st, the Engineers crushed Tufts on their home course, 420-448. Mark Marinar '81 was medalist with an 80, Parigian followed with an 81.

MIT's team total of 667 was not quite as impressive as expected in the New England Championships this Monday and Tuesday at Taunton and Waseca's Springs. Parigian's 36-hole total of 67-69-192 was low for the Engineers. Bob Cwag

90, Emerson, and Scott Nyberg '82 carded 167,168 and 170 respectively. "We beat a lot of teams," coach Jack Barry commented, but the tournament hosted some very stiff competition.

The squad hopes to schedule matches with Boston College and Bentley this week and will compete in the ECAC Regional Tournament. MIT has been a strong contender in this tournament, as evidenced by their second place finish last year.