City debates animal law

MIT scientists opposed to Cambridge proposal

By Mary Candeo

The Cambridge City Council is examining a proposed ordinance that would regulate the use of animals in research in Cambridge. A number of MIT researchers are opposed to the proposal.

The ordinance would create a Cambridge Animal Experimentation Review Board (CAERB) which would:
- Determine and delineate the compensation and accommodations for the use of animals in research.
- Review all proposals for animal experimentation to ensure compliance with federal, state, and local regulations.
- Conduct unannounced research site visits.
- Review the exact procedures the animals will undergo as described in the proposal.

The proposed ordinance is aimed at ensuring that animal research in Cambridge is conducted in a manner that minimizes animal suffering and maximizes scientific benefit. The CAERB would have the authority to inspect research facilities, ensure compliance with regulations, and provide compensation to researchers for the use of animals in research.

Panel debates military technology

By David B. Plass

The United States and the Soviet Union already have cruise missiles which can overcome defenses currently researched under the Strategic Defense Initiative, claimed former MIT President Jerome B. Wiesner. Wiesner's observation alone in a Sep. 18 colloquium entitled "Technology and World Peace" at Ashdown House, Wiesner argued, and as Jack Ruina, professor of mechanical engineering, and Kosta Tsipis, principal research scientist in Science, Technology and Society, served as panelists during the discussion, which was sponsored by the Dean for Student Affairs. Over 75 students attended the colloquium.

Another dangerous part of SDI is that it is a retention: a stimulus to the arms race. Ruina said. MIT is costly and diverts money and technology currently researched to arms race, Ruina said. SDI is costly and diverts money and...
City may oppose housing site

(Continued from page 1)

MIT is said to be seeking more housing for graduate students. Dickson said, which is why housing was one of the highest priorities in MIT's most recent capital funding program.

Dickson was asked if the Housing Office's plan to house 20 percent of the graduate students accounts for the steady rise in the number of MIT graduate students over the past 15 years. He replied that MIT set a 30 percent goal in the 1960s and would have achieved that goal by now if not for the phenomenal increase in the number of graduate students since then.

Unless the number of students stops increasing, MIT can never reach its goal of housing half the graduate students on campus,” Dickson said. “At this rate the 300 spaces we plan over three to four years would be absorbed in the increase in the number of students.”

Simha anticipates problems with Cambridge

Director of Planning Ovadia Simha '77, also at the GSC meeting, warned that MIT may encounter conflict with the City of Cambridge in constructing a new dormitory.

The greatest problem, Simha explained, was in the vacillating position of the City Council on the issue of housing. It is difficult, he said, to anticipate how the council will react to any new construction.

A possible problem is that “the city has put out a study to look into the utilization of industrial districts which include many of the possible sites for housing for general community housing,” Simha said. Since MIT is partly within these districts, the Planning Office will need to be aware.

Tsipis denies technology is to blame for arms race

(Continued from page 1)

solution but perpetuates the arms race.” He claimed that “good and patriotic reasons” are driving forces of the arms race but the impact of secrecy also drives it.

Tsipis, however, contended that technology is not to blame for the arms race because technology is essentially neutral; how we use technology makes the difference. He claimed that fear and perception -- not technology -- advance the arms race.

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Rudman proposes military overhaul
Sen. Warren Rudman said that a senate subcommittee has approved his proposal to restructure special military forces. His amendment would create a unified command over special forces of the Air Force, Navy, and Army. According to Rudman, these special forces are currently controlled by their respective services. The lack of centralized command was responsible for problems in the attempt to rescue the American hostages in Iran and in the invasion of Grenada, he claimed. The Pentagon should devote more attention and resources to special forces, Rudman continued. (AP)

Israel increases presence in Lebanon
Hundreds of Israeli troops have been sent to the Lebanese border to support an Israel-backed militia being attacked by Shi'ite Muslim guerrillas. Residents of the border town say that this is the largest number of troops stationed there since Israel pulled out of Lebanon last year. (AP)

Reagan praises arms reductions, attacks Soviets for Daniloff affair
President Reagan promised the UN General Assembly that the Geneva arms talks may soon show signs of progress. The Soviets are going along with US proposal to make major reductions in the number of offensive nuclear missiles, he said.

In the same speech, Reagan attacked the Soviet Union for detaining Nicholas Daniloff, an American reporter accused of espionage. Reagan cited the Daniloff case as one of the Kremlin's typical human rights violations. He did not say that it would interfere with arms negotiations. (AP)

OPEC shows signs of disunity
OPEC has succeeded so far in staying within the limits of its overall production target. There are indications, however, that this monopolistic agreement is being violated by certain OPEC nations. According to industry journals, Venezuela, Libya, and the United Arab Emirates are disenchanted with the collective agreement. (AP)

Seattle capitalizes on Patriot miscues
The Seattle Seahawks scored 17 unanswered points in the first 3:05 with less than three minutes to play in Sunday's game, beating the New England Patriots 38-33. Both teams had been undefeated going into the game. Seahawk wide receiver Steve Largent needs only one more game to tie Harold Carmichael's NFL record 127 consecutive games in which he had one or more receptions. Before this game, Patrick punt returner Rich Camirillo had never had a punt blocked in his NFL career. (The Boston Globe)

Jets win in OT; Raiders drop to 0-3
The Jets triumphed over Miami in a come-from-behind overtime win at New Jersey, 51-43. The Jets took the weekend's honors for total offensive yards, with 591. New York's other team also won, dropping the Los Angeles Raiders 14-9. In a see-saw battle of underfunded teams, Atlanta beat Dallas on a field goal in the closing minutes, 37-35.

Seattle, Atlanta, Washington, Chicago, Denver, and the LA Rams remain unbeaten. Los Angeles, St. Louis, Indianapolis, Pittsburgh, Green Bay, and the LA Raiders are all looking for their first win. (The Boston Globe)

Settlement reached in W. R. Grace suit
A settlement has been reached in the suit brought by six Southern families against the W. R. Grace company. One of the claimants, Kathryn Gannsche, said she is glad the case has been settled, but was disappointed that the firm "didn't get nailed to the wall." The lawsuit alleged that the company poisoned the local drinking water, causing several leukemia deaths. (AP)

Sports

weather

Gloomy weather ahead
An extended frontal disturbance will hover around our region as it moves northeast over the next 2-3 days. As a result, our weather will be on the gloomy side for the next couple days. On a positive note, our temperatures will be somewhat warmer.

Tuesday: It will be mostly cloudy with a chance of showers. High temperatures will approach 70° (21°C) and winds will be from the southwest at 10-15 mph (16-24 kph).

Tuesday night: We will see evening showers and possibly a thunderstorm. Then partial clearing, with winds shifting to the northeast.

Wednesday: We can expect a mixture of clouds and sun. High temperatures will be 70-75° (21-24°C).

Thursday: The return of clouds and showers with high temperatures near 80° (21°C).

Forecast by Robert X. Black G

Compiled by Robert Adams
Michael J. Garrison
Religion of science blinds us

By Andrew S. Manes

The barriers I am talking about are not physical; they are ideas that people on both ends of the political spectrum have come to accept. Perhaps it is best to call them religions.

The religion of mainstreet concerns us all because it is good news without question. If it is true, the future is bright. There is no need for fear of the unknown, or of the future. Everyone is safe.

The religion of left coast has its followers as well. It is a mark to keep down the pass/fail -- to keep down the costs of the MIT educational experience, which computer hackers are causing solely by politicians in Washington, D.C.

MIT's current effort to reform the curriculum to foster the construction of the technological enterprise is best to call it. The Pedagogy of the Oppressed is not what it is. It is the oppression of the Oppressed. The Oppressed are oppressed to be able to wage the struggle for their liberation.

Many people say that the arms race is not a real threat. Only the politicians in Washington, D.C. seem to feel that it is. The illusion of the arms race is what is going on. The arms race is not a real threat.

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The Worlds of Philip Morrison
Friday & Saturday, September 26-27, 1986

Friday, September 26, 1986

Symposium
John Quincy Adams Ballroom
Hyatt Regency Hotel

Welcome ............................................ 9:00 am
Dr. Gene M. Brown
Dean of Science, MIT

Astrophysics
Chairman: Professor Bruno Rossi, MIT
Professor James Peebles ......................... 9:10 am
Princeton University
The Universe at Modern Red Shifts
Professor Walter Lewin .......................... 9:50 am
Massachusetts Institute of Technology
Some Recent Developments in x-ray Astronomy
Coffee Break ................................... 10:30 am
Professor Kenneth Brecher ....................... 11:00 am
Boston University
Origin of Cosmic Rays
Professor Alan Guth ............................... 11:40 am
Massachusetts Institute of Technology
The Inflationary Universe
Lunch (on your own) ............................ 12:15 pm

Disarmament
Chairman: Professor Francis Low, MIT
Dr. Jerome Wiener ............................... 2:00 pm
Massachusetts Institute of Technology
Phil Morrison and the Spirit of Our Times
Ms. Randall Forsberg ............................ 2:40 pm
Institute for Defense and Disarmament Studies
Defence in a Democracy
Coffee Break ................................... 3:20 pm

Education
Chairman: Professor Anthony P. French
Professor Lillian Weber ......................... 3:50 pm
City College of New York
Noticsings, Inquiry, and Joining With
Professor Owen Gingerich ....................... 4:30 pm
Harvard University
Galileo and Kepler

Banquet
Walker Memorial Dining Hall
Massachusetts Institute of Technology
Cocktails ........................................... 6:30 pm
Dinner .............................................. 7:30 pm
Speaker ........................................... Professor Tom Gold
Magic By ........................................... Max Maven

Saturday, September 27, 1986

Symposium
Kresge Auditorium
Massachusetts Institute of Technology
Chairman: Professor Victor Weisskopf

Welcome ........................................... 9:00 am
Professor Carl Sagan
Cornell University
Joining the Universe
Professor Hans Bethe
Cornell University
Solar Neutrinos
Coffee Break ................................... 10:45 am
Professor Philip Morrison ....................... 11:30 am
Massachusetts Institute of Technology
Remarks of an Equinox
Picnic and Kite Contest ......................... 12:45 pm
Kresge Oval
Massachusetts Institute of Technology

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OFFICIAL MASS. INSPECTION STATION 2563
It has had a strong history of military funding that DOD support is regarded as what is good for science. As a result, real reductions in military budget, would be a disaster for what we now consider to be electrical engineering and computer science. The alumni contribute to the religion of space exploration. Thus, they are skeptical about the new Space Station project and the Trans-Antarctic Vehicule, called TAV. The political fact that TAV will enable us to fly to Tokyo in two hours. But scientists report that the project has recently been thrown into a veil of secrecy, due to its military potential. Ironically, MIT's main lobby now contains a large, suspended metal structure placed there by Space Structures International, which is working with MIT's architecture department, in order to attract students to work on the space station project. This when Duke Washoe of The Boston Globe stated on Jan. 30, "Most proponents of SDI argue that a manned space station is a key to the successful deployment of a space-based missile defense."

The real purpose of the space station is now clear. SSI may be a commercial company, but its main customer will probably be the Pentagon. MIT has converted its main entrance into a monument for Star Wars.

The worship of these dogmas is a barrier to political change. Making these barriers visible is an avenue for change. Getting the candidates elected who believe that nuclear weapons are bad may add a voice to the non-nuclear contingent in Congress, but it will have little effect on the views of the heads of Raytheon, General Electric or IBM.

For students, universities often serve to reinforce the religions of science, economics and blind faith in technology. For example, MIT's libraries contain little information on the Defense Science Board, the Institute for Defense Analysis, and the Council on Foreign Relations -- three organizations which set the tone for national policy decisions. However, there are shelves full of literature on how corporations can minimize their taxes. Universities are set up to reinforce the system, not to allow people to oppose it.

Students can change the climate for defense, simply by raising questions that are rarely asked. For example, MIT's 1985 Long-Range Plan says that MIT, as "a national and world resource," should be contributing to the solution of the overriding problems of our time: the danger of nuclear war, the protection of our environment, the depletion of resources, especially energy. The need to open the opportunities and benefits of this society to all of our citizens, and the need to improve productivity and to alleviate poverty." The question is "Is MIT doing all these things?" This contains an army of activists.

Students can ask why MIT's arms control professor Jack Ruhe is on the boards of directors of two Star War contracts; why MIT disregards the concerns of the neighboring community while developing "University Park" on the old Simplici site; why scientists research the focus of a huge Sea Grant conference next month.

Activism of this sort can be easily organized. It doesn't need the support of a large campus group, only a few committed friends. It will not have an immediate effect on Washington, but it does something more important.

It politicizes people. This even includes the large number of students with security clearances who are bound to a career within the military- industrial complex. From within such people will not really be able to change things, but they can influence the political role of institutions. The inhibitions on political discussion imposed within institutions must be challenged. There are even corporate heads and university presidents who support disarmament that might speak out if pressured to do so by employees or students. If they do speak out, it sends a signal that "the establishment," is changing course, and the mainstream press will be more inclined to investigate the issue.

Don't get me wrong; activists who maintain their independence by remaining totally outside the system are necessary. But the political debate must also include people within the system otherwise, potential solutions such as disarmament or economic conversion will always appear radical and be immediately dismissed before they reach the public eye.

Debate must include people inside the system. It's a national and important task for all citizens, and the need to improve productivity and to alleviate poverty. The question is "Is MIT doing all these things?" This contains an army of activists.

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RhinoCeros
By Eugene Ionesco.

Directed by Lilly Marcus.
At New Ehrlich Theatre, 539 Tremont St., Boston, through Oct. 4.

By JULIAN WEST

The answer, of course, is that the play itself addresses current issues of our time. The text, which in fact dates from the 1960s, is strikingly contemporary, almost as if it were written yesterday. Two deep fronts in bright primary colors, some obvious atonal music, and a notice pillar readily conjure up Ionesco's specific "small provincial towns." So why does the program notes insist that this production is set in "a city very much specific small provincial town." Notice pillar readily conjure up Ionesco's refuses to become a rhinocerous.

One sometimes has the impression that and we are returned to a world in which parallels between Ionesco's decade and our nature of the media. There are closer parallels between Ionesco's decade and our 1950s, is strikingly contemporary, no, not quite as much. In fact, the dialectic relationship that we sometimes think of as resembling Hitchcock's is also present here.

"Blue Velvet" shows a disturbing slice of life.

By PETER DUNN

I ever there were movies making you feel uneasy about this whole, easy, small American town, right? Not quite. But there was, for example, a painting of a tomato. The locale, uneasiness is already being bared at the Prudential Center Art Studio, is an oppressive impression of travelling in some warped reality and the long slow progress, unusual behind the characters suggest a dark cloud gradually creeping overhead. The shots of the flowers are taken from a low angle with blue sky and white pines competing a stark, surreal image.

The disturbed reality alluded to is suddenly made explicit as the gargoyle falls to the ground grabbing at his back and a yawning dog jumps onto his chest. The gargoyle, though a gargoyle, is meant to represent the nature seems to be doing it in the underground, to grow to a decent size. The word was invented as a way of life, leaves no such option. One could in some ways, make the"blue" of Hitchcock's world darker than that of Hitchcock's, but it is hard to take such a world seriously which is why Hitchcock was so successful. Perhaps if "Blue Velvet" had been less funny and more unreflective, it would have been a better film.

"Rhinoceros" addresses issues of our times.

By JULIAN WEST

A first glance at one of Juan Carlos Cardenas' acrylic paintings at the Prudential Center Art Studio, September 26.

RIBBONS IN AGREEMENT

Art and Mathematics

Paintings by Juan Carlos Cardenas
At the Prudential Center Art Studio, through September 26.

By JULIAN WEST

The art of mathematics

By JULIAN WEST

A first glance at one of Juan Carlos Cardenas' acrylic paintings at the Prudential Center Art Studio, September 26.

RIBBONS IN AGREEMENT

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A first glance at one of Juan Carlos Cardenas' acrylic paintings at the Prudential Center Art Studio, September 26.

CARDENAS

A native of Bogota, Colombia, is currently at Northeastern University's studio art, studying, biology, and chemistry. He is famous in high school for being a straight A student, good at maths, but confessed a long standing obsession with the subject. "For me," he says, "mathematics is the most important thing in the world. The universe is mathematic.

Certainly a mathematician would find himself on familiar ground in viewing Cardenas' work. Spheres continually crop up as symbols of the universe. The background is filled with netted designs which escape the usual confines of the canvas. Cardenas' tools also sound like a logician, discussing symmetry and expressing ideas. Cardenas' tools also talk about old paintings. He has an eye for the beautiful, and an ability to preserve the beauty.

Art and mathematics find each other in Cardenas' work. Mathematics can express the beauty of Cardenas' work. Mathematics can express the beauty of Cardenas' work. Mathematics can express the beauty of Cardenas' work. Mathematics can express the beauty of Cardenas' work. Mathematics can express the beauty of Cardenas' work. Mathematics can express the beauty of Cardenas' work.

Cardenas, however, is not content to leave his work as it is. He is constantly experimenting with new ideas. He is constantly experimenting with new ideas. He is constantly experimenting with new ideas. He is constantly experimenting with new ideas. He is constantly experimenting with new ideas. He is constantly experimenting with new ideas.

The studio is littered with little metal sculptures which might have come from a geometric figure. Cardenas' work is both formal and forth with pleasing variations as theorems in mathematics. Cardenas' work is both formal and forth with pleasing variations as theorems in mathematics. Cardenas' work is both formal and forth with pleasing variations as theorems in mathematics. Cardenas' work is both formal and forth with pleasing variations as theorems in mathematics. Cardenas' work is both formal and forth with pleasing variations as theorems in mathematics. Cardenas' work is both formal and forth with pleasing variations as theorems in mathematics.
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University Association News

UA Council Forum on R/O
Thursday, September 25, 7-9 pm
Mezzanine Lounge, Student Center

Come and discuss the effects of Residence/Orientation week as part of the educational experience at MIT. Should R/O change? Why? How? Who should change it? What should change?

All students are welcome. Take this chance to provide input. The UA Student Affairs Group is beginning a semester-long study on R/O. If you are interested in providing further input or in helping with this study, contact Jeff Liebman at the UA Office, x-2696.

Everyone welcome, refreshments served.

Join the UA.

The Undergraduate Association is beginning to work on a great year for students at MIT. Come join us in making student life the best it can be at MIT. Stop by our office on the 4th floor of the Student Center (room 401), just to talk or to come to any of our meetings.

If you want to find out more, feel free to call: Bryan Moser, 297-3801; Becky Thomas, 295-8528.

The Undergraduate Association student government for students at MIT

UA office W20-401 (4th floor of the student center) x-2696.
Law would strengthen regulations

(Continued from page 10) Newcomer said he did not see the need for regulation on a local level.

Proposers of law cite research violations at Penn

Over 80 scientists and animal rights activists attended a Sept. 18 public hearing on the proposal.

Agha mentioned that scientists at the University of Pennsylvania who had been receiving NIH funding for many years were found in 1984 to be carrying out gross acts of animal abuse. He cited a study he showed, in which federal regulations were not adhered to, or causes for further regulations on the local level.

Newcomer pointed out that the UPenn incident occurred prior to the NIH's updating of its animal research regulations. There are over 800 institutions whose NIH funding has not been found guilty of any injuries, he added.

Other proponents of the proposal criticized federal regulations such as the Animal Welfare Act, which does not explicitly provide for the rights of mice and rats. Approximately 90 percent of animal research is being conducted on mice and rats. The ordinance, which is aimed at protecting all animals, defines an animal as "any nonhuman sentient being."

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Law would change membership of animal research committees

The NIH requires all research institutions to establish an Institutional Animal Care and Use Committee; each committee must contain at least one member from outside the institution. The proposed law would require the Animal Commission of the City of Cambridge to compile a list of animal rights advocates to serve as non-institution members on each IACUC. The new law would stipulate that each institution's IACUC could only choose one outside member from this list of animal rights advocates.

Newcomer said he is opposed to this change in committee membership. Having an IACUC member who has little knowledge of biology or medicine could be disastrous for an institution, he explained.

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Agha cited the need for small staffs to work with people with disabilities in the school environment.
Defensive pressure disrupts Friars' game plan

Providence offensive lineman resorts to grabbing Chris Moreno '88 in an attempt to slow the MIT pass rush.

(Continued from page 16)

passing prevented the Friars from keying on the run, and the offensive line began to dominate the line of scrimmage, opening up holes for the Beaver backs. Hugh Ekberg '88 dove for several first downs in a drive that culminated with a 22-yard pass to Corles just 4:15 into the second half.

The MIT defense did its part, as the secondary tightened up on the receivers, giving the pass rush ample opportunity to pressure the QB. Dana Pirikets '88 almost intercepted one pass, while Arnold and Hong Mo Yang '87 broke up several others.

The Beaver offense continued to roll deep into PC territory. On fourth down and two, the blocking of center John Ryan '89 enabled Gasparini to pick up the first down at the PC 16. A lead block from Ekberg sprung Chris Adams for a 14-yard pickup, and on the next play, Ekberg carried the ball into the end zone.

With barely over two minutes left in the game, and facing a fourth and 11 on the MIT 37-yard line, Delane dropped back to pass. Buellesbach intercepted the errant pass, but fumbled it away after carrying it into PC territory.

The MIT offense held strong - Poulin, Moreno, Gregory, and Rice all had a hand in dropping Delane on third and fourth down. All Gasparini had to do was sit on the ball, as the crowd called out the closing seconds.

With a 21-14 victory over the Friars, the Beavers showed in this, the first home game of the season, that they have what it takes to produce a winning season.
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Judy Mourant '87 spikes the ball during Wednesday's volleyball game against Salem State. MIT won the match, 15-4, 15-5, 15-2, bringing their season record to 3-0. MIT plays again this weekend in the Salem Invitational.

Women's Rugby Captain Rachel Berman '88 supervising practice last Tuesday. The team played Tufts Saturday, losing 2-0. The women's rugby team is composed of undergraduates, graduates, and staff from MIT and Wellesley.

Martha Beverage '87 of the women's field hockey team scores the winning goal in Thursday's 1-0 victory over Nichols, for their first win of the season. Their record is now 1-2. This Thursday they take on Gordon College at 3:30 pm on Briggs Field.

The men's baseball team played a double-header against UMass-Boston Saturday afternoon on Briggs Field. They lost 1-4, 2-5, bringing their record to 5-3. They play again next weekend in the Fall Baseball Classic, against Stonehill, Brandeis, and Bentley.

By Stephen Berczuk
Beavers surprise Providence, 21-14
Balanced offensive attack, dominating defense spark comeback victory

By Charles D. Robinson Jr.
and Harold A. Stern

In a come-from-behind victory, MIT's football team defeated the Providence Friars Saturday by a score of 21-14. The Beavers were in trouble early in the game as Kevin Delane's passing led Providence downfall. A diving catch by Jeff Ofgan brought the ball to the one, and Kevin Nolan ran the ball into the end zone. MIT had several opportunities to score on their first drive, but came up short. Shane Arnold '88 broke past several defenders, returning the kickoff to the MIT 41-yard line. These plays later, aасpearing call on Providence brought the ball to the PC 23. With a first down on the 13, Peter Gasparini '88 threw two passes that would have been good for touchdowns if they had not been dropped.

The Beaver defense did better on the next series, disrupting the Friars' aerial attack with some excellent penetration. Richard Rice '87 recorded a sack, and excellent penetration. Richard Rice '87 recorded a sack, and

the extra point.
Providence managed to mount one more attack before halftime, as they drove down the the MIT 9-yard line. Excellent pass coverage by Rick Bielich '89 and John Dawley '87 broke up one attempt at a score, and sacks from Peulin and Rice on successive plays shut the door, as time ran out before the Friars could set up for field-goal attempt.

Two factors enabled the MIT rushing game to pick up speed in the second half - Gasparini's run total in page (3)

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