UROP celebrates 20th anniversary

By Linda D’Angelo

Students, faculty, and administrators reflected on the Undergraduate Research Opportunities Program’s role at MIT and predicted how it will shape the future at the program’s twentieth anniversary celebration on Monday.

UROP was founded during the 1969-70 academic year by Dean for Undergraduate Education Margaret L. A. MacVicar ’65. Twenty years later, it is the “largest, most successful and most well-known program at MIT,” said Norma McGavern, director of the Undergraduate Education Office.

The centerpiece of Monday’s festivities was student and faculty reflections about the year 2020. These people thinking and to have some fun,” MacVicar told The Boston Globe.

William Ching ’93 speculated that “robots with human capabilities will assist in everyday life” and “cancer will be eradicated.” Cold fusion and advanced computer capabilities would solve the energy crisis, according to Gautham Ramakrishna ’93. “Biological immortality” would be achieved, Greg Beringer ’91 predicted.

As for MIT, the year 2020 may see the Institute’s own space research lab that “in addition to the semester abroad program in another country, there will be a semester abroad program for the space station,” Andrew Dickson ’93 wrote. Mohanjot Jiji ’91 speculated that “departments of sciences such as biology and chemistry will suffer due to increasing emphasis on engineering only policy at MIT.”

UROP itself “will expand tremendously” by 2020 because “students are willing learners and motivated workers,” Christine Kwon ’92 predicted. Moreover, according to Beringer, the program will “play a crucial role in integrating students into areas of high-tech industry.”

Groups. If all goes according to plan, woman students could be thoroughly woven into” the undergraduate experience in the year 2020.

UROP has been successful, and will continue to be successful, because it “taps into MIT’s real strength,” McGavern said. The program draws upon the great number of faculty members, their involvement in research, and the opportunities in undergraduate education, she explained.

The flexibility of the program is also crucial to UROP’s success, according to McGavern. “I think MIT are too diverse to fit into a cookie-cutter program,” she explained.

MIT in debt $65,000 to FedEx

By Andrea Lambert

Federal Express informed MIT on January 8 without warning it would no longer service MIT’s accounts on a line-of-credit basis. Director of Purchasing and Stores Barry M. Rowe said yesterday, MIT had almost exclusively used Federal Express previous to the announcement.

The termination came as a result of MIT’s “failure to promptly pay for the services [Federal Express] provides,” Rowe said in a January 10 memorandum to Institute department heads, laboratory and center directors, and other members of the MIT community.

“The announcement was unexpected since we had been working closely with Federal to improve our systems and procedures to enable faster payment of their invoices,” the memo continued.

“This is the first time a company that has serviced us so completely has ever taken such drastic action,” Rowe said yesterday. A representative from the Federal Express office in Boston said that it is “not unusual for us to do that if we are attempting to reconcile statements.”

MIT is $65,000 in arrears, according to Rowe. He said that companies are generally allowed 30 to 60 days to pay before interest is charged on debts. MIT owed Federal express $40,000 for the past 30 to 60 days, $3,000 for the 30 days before that, and another $2,000 for the month previous to that. Rowe said that the problem stemmed from an additional $22,000 that were owed more than 120 days before. He said the decision to terminate credit line service to MIT hinged on this early debt.

Rowe claimed that the responsibility for the large debt is shared by both MIT and Federal Express. His memo cited “the continued failure [of MIT] . . . to provide the correct account number” on the airbill form as a reason for the slowdown in payments. Airbills are necessary to confirm and track shipments in the case of a missing account number. Moreover, account numbers that were indicated on the airbills “were not picked up by data entry people” at the Federal Express center in Memphis. In addition, many of the numbers that were entered were incorrect or garbled to the point of being useless. Further, the airbills were not picked up by data entry people at the Federal Express center in Memphis.

Dean Margaret L. A. MacVicar ’65, founder of the Undergraduate Research Opportunities Program, reflects upon UROP’s 20th anniversary before speaking at Monday’s celebration in Lobby 13.

Alpha Phi closer to obtaining housing

By Karen Kaplan

After aggressively searching for over five years, Alpha Phi is likely to become the first housed sorority at MIT according to Neal Dorow, Advisor to Fraternities and Sororities.

The property that the Zeta Psi occupied was acquired by the university for $185,000 in 1988. After searching for a property that would be large enough to accommodate 84 women, the Alpha Phi was left with few places relatively close to campus. The Alpha Phi chapter at MIT is hoping to purchase either 477 or 479 Commonwealth Avenue in the Kenmore Square area. If purchased, the buildings would have to undergo a considerable amount of renovation before any women members move in. The facilities include rooms for approximately sixty residents, a large room for meetings, and kitchen facilities.

According to Dorow, Alpha Phi has been trying to work out a deal with the current owners of the Kenmore Square property for quite awhile. Sorority members first became interested in the property in the fall of 1991.

The property the Zeta Psi chapter of Alpha Phi is hoping to purchase includes two buildings at 477 and 479 Commonwealth Avenue in the Kenmore Square area. If purchased, the buildings would have to undergo a considerable amount of renovation before any women members move in. The facilities include rooms for approximately sixty residents, a large room for meetings, and kitchen facilities.

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Federal Express cuts MIT credit

(Continued from page 1) traced after the debt started to accumulate. MIT is finding "a great deal of sloppiness in data entry," Lehane said. He estimated MIT's annual account was unfair, according to Rowe, the account will probably be reinstated once the problems are resolved. In the interim, the Institute has been using DHL Worldwide Courier Express and Emery Worldwide, although if people "want to use Federal, they can use Federal," he continued.

A spokesman for Emery refused to comment, and DHL did not return our telephone calls.

Federal Express is anxious to get us back. They are bending over backwards to get us back as an account," Rowe said. He said that Federal Express will still pick up and deliver packages, but they will not be charged to an MIT account.

Both DHL and Emery have been instructed not to accept a parcel if the accompanying airbill does not have an account number.

"DHL has been doing a fine job; everyone seems to be using DHL, and it doing just fine," Rowe continued.

"I really want to get Federal Express back; they are open a lot later than DHL," commented Terri Lehan, administrative assistant in the Center for Transportation Studies. Federal Express picks up parcels much later than the other companies, making it convenient for late deliveries.

"I'm hoping that MIT gets them back," she said. "DHL is good service, but Federal gives the same service."}

Other companies called in

As soon as word leaked out that Federal Express had dropped MIT's account, "all of the major carriers contacted us," Rowe said. He estimated MIT's annual shipments at $400,000 to $700,000 per year. Although the Federal Express's treatment of MIT's account was unfair, according to Rowe, the account will probably be reinstated once the problems are resolved. In the interim, the Institute has been using DHL Worldwide Courier Express and Emery Worldwide, although if people "want to use Federal, they can use Federal," he continued.

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UROPers celebrate 20 years, make predictions for future

(Continued from page 1) UROP participation ranges between one half and one third of undergraduates, and since a program as innovative as "UROP" is unlikely to change substantially, McGavre expected this high level of participation to continue.

No intensive re-evaluation or revision of UROP is planned, she said. Instead, "adjustments to the program occur all the time," in a process which is "evolutionary, not revolutionary," she stressed.

Honorary Chairman of the Corporation Howard W. Johnson, who was president of the Institute when the program began, reflected on "the sense of anticipation we all felt about the useful dynamism of the proposed program." He credited UROP with "revolutionizing education for undergraduates at MIT" and creating "large-scale reverberations in the world of education in general."

During the ceremony on Monday, the predictions were sealed in a time capsule, which will be stored at the MIT Museum until it is opened at the celebration of UROP's fiftieth anniversary in 2060.


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World

Communist Party favors reunification for Germany

East Germany's communist party has come out in favor of German reunification at a time when the German Bundestag is scheduled to vote in national elections set for March. A party spokesman said the party, which controls nearly all but one newspaper in the East, said it favored unification. The in- terest is expected to dominate the campaign for seats in the East German parliament.

Gorbachev says he is not proposing anything to softening his opposition to German reunification. East Germany Premier Hans Modrow, in a speech to the Communist Party leadership yesterday, said the Soviet leader did not rule out reunification sometime in the future. A timetable was not discussed, though.

Drug cartels propose peace

Criminals in Mexico have apparently decided to cut off the street-level drug war. One cartel boss, a drug lord by the name of El Chapo Guzman, has proposed making a peace agreement. He told his cartel's members that they should stop the violence and start something new. The members of the cartel are said to be hesitant, but they have agreed to consider the proposal.

Britain asks for help in Hong Kong

The Foreign Secretary of the United States, Mr. George Shultz, met with the leader of the Chinese Nationalist Party in Hong Kong today. The meeting was held to discuss the situation in Hong Kong and the efforts being made to stabilize the region.

Soviet Ambassador softens description

The Soviet Ambassador to the United States, Mr. Yevgeny Chizhov, today softened his previous stance on the United States. He said that the United States is not a threat to the Soviet Union, but rather a partner in international cooperation.

Sports

Super Bowl ratings third lowest

Super Bowl XXVII had the third lowest rating in history. The game was played on Sunday, and the ratings were lower than the previous two Super Bowls. The lowest rating was Super Bowl XXV, which was broadcast on NBC.

NFL championship game in 21 years

The NFL championship game was played on Sunday, and it was the first game to be held in 21 years. It was played between the New England Patriots and the Pittsburgh Steelers.

Eagles to play in Super Bowl

The Philadelphia Eagles are set to play in Super Bowl XXVIII on Sunday. They are facing the New England Patriots, and it will be the first Super Bowl appearance for the Eagles.

Weather

Enjoy it while it lasts

High pressure is expected to dominate the weather in New England today, with clear skies and temperatures in the mid-40s. By Wednesday, however, the weather will begin to turn colder, with rain showers possible in the afternoon.

Wednesday: Mostly sunny with highs near 48. Light winds.

Wednesday night: Clear with lows near freezing. Light winds.

Thursday: Sunny in the morning, increasing clouds in the afternoon with a chance of rain after dark. Highs 44-46. Light winds.

Friday: Rain in the morning, ending in the afternoon early morning. Highs 44-47, falling into the 30's by evening. Light winds.

Forecasts by Greg Bettinger

Compiled by Revere Lerner and Andrea Lamberti
**Washington march supports pro-life**

Column by Juan Latasa and Chris Papineau

"If abortion is not wrong, then nothing is wrong." These were the words of Michael Schwartz of the Free Enterprise Foundation in his address to the American Collegians for Life at their third annual conference held at Georgetown University, January 20 through January 22. Among the college students from across the country in attendance at the conference were 8 students representing MIT Pro-Life, a student organization at MIT dedicated to fostering pro-life support on campus for the pro-life position.

"We are here because we must be. We must respond to the largest killing of 1.5 million infants a year in this country," said Molly Kelly, a Pennsylvania State University student at the opening session. The conference included such pro-life leaders as New Jersey Congressman Christopher Smith, National Right to Life Chairman Dr. Jack Wilke, American Victims of Abortion director Olivia Gans, and American Feminists for Life secretary, Sharon Long.

This gathering displays an unmistakable testimony to the objections of millions of enlightened young people across the nation to the killing of over 35 million pre-birth children since abortion became legal. A sign of the rising pro-life activism on campuses, this year's attendance amply surpassed the 1989's optimistic projections: in its first year, the conference attracted less than 50 students. Last year, there were 75.

This year, a staggering 300 attended — so many, in fact, that many were turned away. According to the organizers, the leading pro-life women had already spoken at some campuses as "National Organization of (Some) Women." A building of Boston area students, including the MIT representatives, left on Friday, Jan. 19, for a weekend toculminate in the Annual March for Life on Monday, Jan. 22.

There was much to applaud in this year's conference. A number of the speeches, including one on national anti-abortion strategy, by National Abortion Rights Action League and by the Boston Globe, were families.

Next, Nathanson defends that state-of-the-art premature nurseries can offer modern studies which showed 40-50% chance of survival for babies born during the 22nd week of pregnancy, as "The golden years of life." She said that 22 is the 17th to 18th week, to which proponents add extra weeks to verify the truth of the nature of the rape.

The audience burst into applause when, during one of the speeches, a leading Pro-Life woman re-named a well-known national pro-abortion group as "National Organization of (Some) Women." There was much interesting discourse during the weekend for many present. Many Beth Seader, from the National Coalition for the Right to Life, spoke of never using the term "pro-choice," as it sanitizes what the choice is -- the abortion. There were also pro-life speeches.

A busload of Boston area students, including the MIT representatives, left on Friday, Jan. 19, for a weekend to culminate in the Annual March for Life on Monday, Jan. 22. Many students left Seader's presentation There were thousands of enthusiastic students during the conference, there were

There were thousands of enthusiastic students (and from colleges in Massachusetts and Texas spent several days on the road to get there), presented a statement for the Pro-Life young people of America. Popular cheers heard were "Stop the Killing. Life is Great!" and "All we are saying is give Life a chance!" There were lots of "Feminists for Life" and "Athletes for Life," and those which carried signs which said "Be glad you are already pregnant." But the majority of the crowd (estimated at over 75,000 by the Boston Globe) were families. The atmosphere here is that Pro-Life America was marching with the confidence that legalized abortion will be no more.

Perhaps the most striking new development was an innovative possible solution for the so-called "problems of choice." Proposed by Dr. Bernard Nathanson, a co-founder of the National Abortion Rights Action League and once served as a head of the largest abortion mill in the world, was to use an abortion pill which said "Be glad you are already pregnant." It is a pill which always associated with children but never with whistles or drummers or parades. The pill, a popular T-shirt at the conference depicted a baby seal with a sign reading "Save the baby humans!"

Perhaps the most striking new development was an innovative possible solution for the so-called "life." People caring to foster educational support on campus for the pro-life position. It was noted that the woman is pregnant, which is the truth of the nature of the rape.

**Editorials and letters policy**

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The Tech welcomes letters from its readers. All letters are subject to editing and may be abridged with notice of such abridgment. Letters may be handwritten or typed, or sent by telephone, number, and MIT affiliation, if any, for verification, should types letters doub-ple-space for ease of reading. Send letters to: Letters to the Editor, The Tech, P.O. Box 29, MIT, Cambridge, MA 02139, or Room W20-483 by interdepartmental mail.
LETTERS TO THE EDITOR

Depth of technical studies does not imply social narrowness

I would like to know why Mr. Lerner in his opinion "nerd isn't everything," Jan. 24, implies that it is not "human" to have a passionate interest in science and engineering? It is extremely human to be interested in Maxwell's equations — no other animal on earth possesses this interest. Social stereotypes would have us believe that it is more human to have a passion for baseball or parties than to have a passion for science. The human spirit expresses itself in many ways — a passionate kiss, social service, the climbing of Mount Everest, in art and in creative inventions. The diversity in the human race is tremendous and different people express themselves in different ways. For some, an all-consuming passion dominates all of their lives, while some find an involvement in several activities more stimulation. This does not mean that the latter are less human and personally developed than the former. Personal philosophy and natural inclination must not be confused with humanness.

Mr. Lerner also says that "being the best at something doesn't make you educated. It makes you an automaton, able to do one job extremely well." By that definition, Albert Einstein, Michelangelo were uneducated automatons who machined away with no creativity or insight and chargéd to come up with their beautiful theories and sculptures. There is no way, existence and plenty of human emotion in science and supposed automatons. Archimedes would not have run out of his bath naked and yelled "eureka!" in the streets if he had been an automaton.

The tradition at MIT has been to sacrifice breadth for depth. A deep pursuit of one field equips us to think about, and contribute to, issues in other fields because the characteristics of knowledge are similar across all fields; only the specifics change. In the long run, it is far more profitable and humbling to go deep into one branch of knowledge than to spread oneself thin. Depth can and often does lead to breadth as several fields of knowledge merge at the fundamental level. I do appreciate Mr. Lerner's point that information just seems to be whizzing by at such a rapid pace here that it does sometimes feel like one is a human calculator moving from problem to project set to problem set and quite out of breath. Hours of study spent on things instead of with people do lead to poor social skills. However, as a senior looking back, I believe that the intense education was the right education as things and people came into better perspective with practice and maturity. The analytic skills that have been developed are generic and may be used profitably wherever needed.

The science and engineering talent that abound here can easily give one the wrong idea that they are common commodities. I think we should be proud of the unique and rare breed of people that exist here with all their limitations rather than be ashamed of them.

Rahul Sarapeshkar '90

MIT scholars asked to join protest of El Salvador murders

(Editors note: The Tech received a copy of this letter addressed to President Gray '54)

Thank you for agreeing to meet with members of the MIT Council on Central America (COCACO) on January 21, to discuss our petition on El Salvador. COCA is a group of students and MIT alumni representing the MIT community about the U.S. involvement in policy making in Central America and working to change that policy.

In the aftermath of the November 15 murder of six priests at the University of Central America in San Salvador, we drew up a petition inviting you, as president of MIT, to join us in calling for a suspension of United States aid to the government of El Salvador. As of January 26, this petition has gathered 718 signatures.

We conceived the idea of including you in the petition because the Jesuit priests who were murdered (the rector of the university and five professors) were academics, our colleagues. Since many prominent United States clergy have condemned the repressive policies of the Salvadoran government, we hope that the academic community will speak up as well. We recall that after the June 4 massacre at Tlanganam Squa, you sent a memo to the student body at MIT's commencement. We hope that you will show an equal concern for human rights and democracy in a case where the United States has substantial influence. We also feel that a response from MIT, a cornerstone of the United States' military technological base which helps keep the Salvadoran government in power is particularly appropriate.

Finally, we wish to emphasize that while the six priests who were murdered in mid-November grabbed the headlines, they were in no sense "more important" than the 70,000 civilians who have died in El Salvador over the course of the country's civil war, the vast majority of whom have died at the hands of the U.S.-trained and equipped military. Civilian opponents of the government continue to be imprisoned, tortured, and murdered. This day, United States' rhetoric on human rights will never be heeded until that rhetoric is backed by strong action, namely a suspension of aid until the Salvadoran government agrees to seek a peaceful resolution to the conflict and end its severe abuses of human rights.

Michael Peterson '90
Barry Klinger '90

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**SPECIAL STORE HOURS!**
During Registration Week,
The MIT Coop At Kendall Will Be Open
Feb. 5-7 From 9:15AM to 8:30PM

MIT COOP AT KENDALL
1 CAMBRIDGE CENTER
50 1/2 FOSTER ST.
CAMBRIDGE, MASS. 02139
TUE-SAT 8-5:00
Alpha Phi closer to getting house

(Continued from page 1) the sorority moving in, according to Joanne Sper '90, an Alpha Phi member who was instrumental in organizing the meeting. The hearing included presenta-
tions made by students, lawyers, regional Alpha Phi representa-
tives and an architect. The con-
cerns of the few residents who
attended the hearing included in-
creased amounts of traffic, trash, and noisy students.

Sorority members felt they are able to respond to the communi-
ty's concerns. "If they say they're worried about traffic," Alpha Phi says "We're 60 more people to help pick it up," says Sper. Since the buildings do not pro-
vide any parking spaces, traffic is not likely to become a bigger problem either. Dorow points out that sororities have a quieter "en-
vironment" than fraternities, and
with no-alcohol policy, Alpha Phi says it is unlikely to sponsor noisy events. Alpha Phi President Anne E. Rhee '90 adds that since the buildings do not provide any living in Kenmore
house. To this end, Panhel states that soror-
ities will be housed in order of their installation on campus, with sorority housing is that of Panhel's "The primary reason for looking for living in Kenmore" is that the sororities want it," says Immerman, praising Alpha Phi's extensive lobbying effort. Dorow calls it "an equity issue. There are many living group op-
tions for men, and significantly fewer for women," he says. "Ba-
ically, it's the right thing to do." The MIT Panhellenic Confer-
ence has also been making an ef-
tort to provide sororities with housing. Even though the Pan-
hellenic bylaws state that soror-
ities will be housed in order of their installation on campus, President Kris Newton '90 says, "We want all sororities to be housed." To this end, Panhel members have worked with the housing office and developed a list of "minimum requirements" for a potential sorority house. "Panhel has also made a great ef-
tort to encourage everyone to get involved in Kenmore Square," Newton says.

Another issue that goes along with sorority housing is that of student security. Because it is dangerous, especially for women, to walk across the Harvard Bridge and into Boston alone at night, MIT is more seriously con-
sidering plans for some type of shuttle service. "It could come in one of many forms," predicts Immerman, including possible combinations of escort services and predetermined routes. He says it is a "reasonable assump-
tion" that some form of en-
hanced escort or shuttle service would be in place by the fall of 1991.

Food drives, and have visited area
nursing homes. Rhee feels that such "community relations activi-
ties" are an essential part of gain-
ing neighborhood acceptance.

With one sorority house in
place, up to 60 new spaces for
students will open up in various dorms on campus. But despite rec-
cent concerns about overcrowd-
ing in the dorms, Steve Immer-
man, Director of Special
Services, Office of the Senior Vice President, insists this fact has little to do with MIT's sup-
pport for getting sororities housed. "The primary reason for looking for sorority house" is that the sororities want it," says Immerman, praising Alpha Phi's extensive lobbying effort. Dorow calls it "an equity issue. There are many living group op-
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Nonetheless, Hu's complaint has prompted the OCR to investigate Berkeley admissions policies. In his complaint, Hu accused both Berkeley and the University of California of discrimination in using "a quota to fix the number of whites in 1964." Hu also accused Harvard University, saying that Asian-Americans were accepted "at rates 20 to 30 percent less than whites starting in 1982 and ending in 1986."

If Hu's accusation is proved valid, and if Berkeley refuses to reform its admission practices, the school could be cut off from federal financial aid, according to OCR spokesman Jack McGrath.

McGrath, Berkeley Chancellor Ira Michael Heyman denied the allegations. "These are the right stu-
dents to be here, and that they will do our state and the world proud when they go on to leader-
ship positions in all walks of life."

Harvard's director of admissions released a similar state-
ment, saying that Harvard "has worked hard to enroll so many outstanding Asian-American students," and that they have "not put with great academic and extracurricular
success after enrolling at Har-
vard and Radcliffe." He added that the discrepancy in admis-
sions figures was partially due to "very few Asian-Americans in our applicant pool who are alma-
nal in the United States," or "prospective var-
iety of experiences."

McGrath said that the OCR is required by law to investigate all complete complaints, and that Hu's letter let him with "no choice" but to investigate Berke-
ley. He added that Harvard and UCLA are under similar investiga-
tions, but that those reviews were based on "informa-
tions received from regional of-
fice," not because of his letter. Hu, however, noted that his letter was "the first written complaint that the OCR ever" in the Har-
vard investigation.

McGrath said that the OCR re-
ceives over 3000 formal com-
nents each year, every one of which must be investigated. An-
other 200 investigations are the result of discussions with "com-
munity groups, the NAACP, ad-
vocates for the handicapped, women's rights groups," and lo-
elastic groups, he added. Af-
er the OCR determines that a
revision review is in order, the
school is notified of the upcom-
ing investigation, he said.

Raymond Covig, a public in-
formation officer at Berkeley,
said that the school could be cut
off from Department of Educa-
tion financial assistance if they were found to have dis-
criminating against any group, but added that "we don't
believe the department will find that we have violated the law.

Covig said that Berkeley will be changing its admissions policy this year, because "we now have a ful-
ly integrated student body," with "no ethnic majority in the entire student body." He said that
Berkeley was the "first university in the country without an ethnic
majority in the student body."

He also said that Berkeley will be in "good shape to cooperate, because we have done an enor-
ous amount of study on admis-
sions here." The school's admis-
sions policy has been reviewed by several different committees in the recent past.

Effect on MIT admissions policy should be minimal
Michael Behnke, the director of admissions at MIT, said that the admission of Asian-Americans a "serious issue." He added that "it is not apparent" whether the in-
vestigations will affect MIT poli-
cies, since "Asian-Americans do not have a lower acceptance rate
than whites. He noted Berkeley's "complicated system for allocat-
ing places" in each class, and said that "everybody has been ar-
guing continually" about the school's policies.

Behnke said that "other admis-
sions people" are worried that Asian-Americans will "get the idea that they are unwelcome at schools which have selective, pri-
ivate admissions." He added that the media have "taken the tone that there is some sort of quotas" against them. But "one could argue that other institu-
tions have some sort of quotas," he denied any "anti-Asian feel-
ing" in university admissions offices.

McGrath said that all universi-
ties receiving federal funds are
potential targets of investiga-
tions, and that MIT could be re-
viewed if they use such funds. If a violation is found, the universi-
ty and the OCR enter negotia-
tions. He noted that negotiations cannot "result in anything other
than full compliance" with anti-
derminism laws.

Hu complained that "the
/MIT admissions policy as go-
thru the issue of lower stan-
ards for minority entrance, and that "every time someone at MIT has done a study like that, it has been suppressed." He said that if
schools such as MIT use dif-
cent criteria to admit different
groups, then those standards should be made public.

McGrath said that he expects "to close the Harvard and UCLA complaints before the end of the school year." The

UCLA investigation includes those for graduate and 42 grad-
uate programs, and he said, may take months to complete.

MIT students strongly oppose Hu's view
Participants in last night's meeting of the ACLU disputed themselves from Hu. Hu-Wai
Chan Q said, "Hu does not rep-
resent the Asian-American com-
nunity; the views he puts forth is his personal ones." He added, "If Hu wanted to be on the MIT Corpor-

ation, I'm sure there would be a major effort to pre-
vent his election. He would not be qualified to represent Asian-
American interests in that capac-
ity."

"He is a right-wing mouth," summarized Wu. The political right has traditionally opposed affirmative action and has a pow-
erful weapon in minorities like Hu, she noted.

We noted that "when there were no blacks on campus, there were no Asian either. Asians got rules. Double standard activist. He never mentions this point."

Chan believes that Asians and whites should be admitted on an equal basis and already are.

"That why 24 percent of the un-
dergraduate population at MIT is Asian," he said.

"Admissions is a more pressing question for blacks and Hispanic,
he said, "I think the prob-
lem at MIT lies in that the admis-
sions office has difficulty recruiting such students, not that there are not enough white students."

(Continued from page 1)
Armenian soloist, Sinfonova delight with joyful program

SINFONOVA
Conducted by Aram Khachaturian, Suren Bagratuni, viola soloist.
Program of works by Mozart, Haydn, Webern, and Stravinsky.
Event in The Tech Performing Arts Series, Jordan Hall, January 27.

BY JONATHAN RICHMOND
SINFONOVA GAVE ONE OF ITS BEST ever outings last Saturday night, with three of the four orchestras performing showing real flavor and insight. The opening work, Mozart's Serenade No. 11, presented to much applause, one of the finest of its kind. It continues to be considered one of the masterpieces of the Baroque era, and the performers seemed to understand its high level of complexity and interest.

Mozart's Serenade No. 11, presented to much applause, one of the finest of its kind. It continues to be considered one of the masterpieces of the Baroque era, and the performers seemed to understand its high level of complexity and interest.

Haydn's Cello Concerto in D rapidly followed, the mood: sunny, humorous, and tuneful. The performers were well matched from soloist and ensemble, and the two worked harmoniously as one.


Bagratuni delighted the audience last Saturday night not only with his fine sense of legato and detail, but also with his graceful and delicate playing — the solidity of his collocation in the 4th Ad mo is particularly evocative — but also with his baritonal sense of wit in the outer movements. He kept the audience's ears on their toes throughout this well-known work.

Sinfonova, meanwhile, provided a sensitive accomplishment, supple string playing rising to support and mold with Bagratuni's solo work. Khachaturian caught just the right pace and joyous, yet cohesive.

Despite Bagratuni's enormous success with the Haydn, he was in somewhat somber mood at the post-concert reception due to playing on what he referred to as a "second-class instrument." As a reward for his success in the Tchaikovsky Competition, Bagratuni has been provided with a Stradivarius cello by the Soviet government for the Soviet Union, almost all high-quality solos instruments are government-owned and leased to individual musicians, but just 15 days before his scheduled appearance in Boston had been required to turn it in, without explanation.

An inferior instrument was provided in its place, given Bagratuni's unusual talent and his inability to obtain an instrument he is happy with other than through the government, it is to be hoped that the authorities will quickly return his Stradivarius.

Aram Khachaturian led his band into the second half of the concert with an incisive performance of Webern's Five Movements, Op. 3. Sinfonova found impressions of tension, but also of quiet and stillness in these remarkable works, making them completely in keeping with the Curtis Street's solo work was particularly notable here.

Streusser's Metamorphosen, a study for 23 strings, ended the evening and showed Khachaturian at his most imaginative. This is an intimate work and each player introduced a personal sound; it also, however, a unique work in many ways, it can be said to be about movement. And the sense of mood of music being crafted and projected into the audience was invigorating. A wonderful evening for Sinfonova.

Suren Bagratuni

Wednesday, Jan. 31

CONTEMPORARY MUSIC

The Boston Symphony Orchestra, Seiji Ozawa, conducted.


CONTROVERSY MUSIC

The National Symphony Orchestra, Marvin Hamlisch, conducted.


AZA MUSIC

The New York Philharmonic, Leonard Bernstein, conducted.


CRITIC'S CHOICE

The Chicago Symphony Orchestra, Seiji Ozawa, conducted.


ON THE TOWN

Compiled by Peter Dunn


STATE OF THE ART

Compiled by Larry Krieger


JAZZ MUSIC

The Cookers, Al Foster, Grady Tate, and others.


MUSIC "IN CONCERT"

The American Symphony Orchestra, Kurt Masur, conducted.


ON THE TOWN

Compiled by Peter Dunn


CONTROVERSY MUSIC

The Boston Symphony Orchestra, Seiji Ozawa, conducted.


ZA MUSIC

The New York Philharmonic, Leonard Bernstein, conducted.


CRITIC'S CHOICE

The Chicago Symphony Orchestra, Seiji Ozawa, conducted.


ON THE TOWN

Compiled by Peter Dunn


continues its series featuring Michael Blackwood, Mr. A, and others.


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CRITIC'S CHOICE

The Chicago Symphony Orchestra, Seiji Ozawa, conducted.
Sarah Caldwell’s Butterfly makes absorbing drama

ADAMA BUTTERFLY

By JONATHAN RICHMOND

It was easy to forgive the Opera Company of Boston's financial problems within a minute of Sarah Caldwell's taking the helm for the opening night of Madama Butterfly last Thursday. Caldwell showed she was back with a bang, creating an evening of drama so absorbing that none of the company's debuts may have been as justified. A chance had a chance to think of anything but the music.

There are three different Butterfly and two Pinkertons to be heard over the course of the performances of Puccini's opera to be given this season. Yoko Watanabe kicked off with a Butterfly out of Greek tragedy: she was wistless, the most delicate of singers or actresses, but she projected her role never-ending innocence and an ever-present feeling of looming fate.

Her singing may never always have been precise, but it was often exciting — and Watanabe has also a sensual way of holding herself. Her voice could be radiant too, as when she dreamed of the return of Pinkerton, a passage simultaneously joyous and heartbreaking.

And Watanabe could sing in tones of deep tragedy. There was a feeling of horror slowly sinking in as Butterfly realizes the woman waiting outside is Pinkerton's American wife, then, as she weeps towards death, there was an almost numbing serenity accompanying the rising vocal electricity.

Butterfly's love for her son is made clear; there's poignancy at the sight of the American Puccini, Pinkerton's crudities, but she was also a fluent soubrette; his singing finely-directed but nicely-posed, and presenting a tap as Butterfly could avoid.

Markella Hatziano was an accomplished Suzuki, ravishing in all her singing and quite moving in her interactions with Butterfly. Noel Veale did a good job of portraying the nastiness of Goro, the marriage broker. Chester Ludgin, though sometimes a bit unsure of voice, brought out the conflicts of the role of the American Consul — representing the American side, but not without a trace of guilt.

Sarah Caldwell's staging made the action focused, and riveting, but it was the music from her enchanted orchestra that kept everyone pinned to their seats. Each orchestral voice shone through with deft- less spirit, far too beautifully to allow any handkerchief to dry at the end.

350 tickets were sold last Friday afternoon as an offering from The Tech Performing Arts Series. The mob scene at the Westminster, more reminiscent of a line-up for a Grateful Dead concert than for opera tickets, attempted to the tremendous interest in opera at MIT — if the price is right. We are grateful to the opera company for two performances so close together that take place.

To purchase tickets last Friday please see the announcement on p. 11 in this issue.

Yoiko Watanabe as Madama Butterfly and Joseph Evans as Pinkerton.

The Tech Performing Arts Series presents...

PRO ARCHAЕ OPERA CHAMBER ORCHESTRA
The Pro Arts Chamber Orchestra's second concert of the new year, to be conducted by Craig Bush, will be a performance of Stravinsky's A Night Kinget, with narrators Ellen Kremer and Drew Minter. The Walteu's Falern will also be presented.

Sanders Theatre, February 11 at 8 pm.

MIT phone: 451-1905.

SUBSCRIPTIONS for the Pro Archaе Chamber Orchestra's February, March, and April concerts will be available on February 4 at the special price of MIT, a 30-dollar savings over the price of the individual tickets.

Tickets are on sale at the Technology Community Association, 26-450 South Station in downtown Boston. Telephone: 931-2000.

The Tech Performing Arts Series, a service for the entire MIT community, from The Tech, Grand opera, new play, student newspaper in conjunction with the Technology Community Association, MIT's student community service organization.

CLASSICAL MUSIC

February 11, 10:30 am

* * * CRITIC'S CHOICE * * *

Handel and Fasch at 3 pm in Remis Auditorium, MIT. Tickets: 52-53.

Food For Feet

February 5, 8:00 pm

* * * CRITIC'S CHOICE * * *

The Echoes of the 1930's at 8 pm in Jordan Hall, New England Conservatory, 30 Gainsborough St., Boston. Tickets: 16-17.

February 1, 8:00 pm

* * * CRITIC'S CHOICE * * *

Handel and Fasch at 3 pm in Remis Auditorium, MIT. Tickets: 52-53.

Please have exact cash and student ID ready at box office as no credit cards or checks will be accepted. Tickets will not be sold on the day of performance. Due to inundation of the opera house box office by MIT callers, telephone inquiries relating to this offer can unfortunately not be made.

This offer organized by The Tech in cooperation with the MIT Office of the Arts and the Opera Company of Boston.
AT&T ACUSM Service

For Campus Residents
in Long Distance
Best Value

Pick up your registration packet!

The right choice:

AT&T GYM
February 5
8:30 - 5:00

Codes
Security
Personal

Monthly Bills
Individual

Fees
No Sign-up

...
Fritz Lang's Metropolis (1926, Germany) and F W. Murnau's Sunrise (1927) at the Harvard Film Archive on Friday and Saturday, Feb. 2 and 3.

Novenya, Don Gaggin's comedy about the Little League Owners of Boston who stage a take-off to make money by faking huge numbers, continues performances at the Plaza Theatre, Sunday at 7:00, Tuesday and Thursday at 8:00, and Friday at 7:00 and 10:00. Tickets: $2.50 to $5.00, some matinees. Telephone: 353-6600.

* * * CRITICS CHOICE * * *

** THEATER **

The Harvard Drama Ensemble concludes its production of Tennessee Williams' Cat on a Hot Tin Roof, Thursday, Friday, and Saturday at 8:00; Sunday 2:00. Admission: $2.00; students, $1.00; under 14, free. At the Top House, Tremont Street, Boston. Telephone: 243-7575.

** THEATER **

* * * CRITICS CHOICE * * *

** THE BRACEY TRIO **

The Boston Civic Symphony Orchestra, in its definitive second season, plays under the direction of David Bracey, Thursday at 8:00, Saturday at 7:30, and Sunday at 3:00. Tickets: $3.00, adults; $1.00, students. At Symphony Hall, corner of Boylston and Newbury Streets, Boston. Telephone: 353-9500.

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* * * CRITICS CHOICE * * *

** THE BRACEY TRIO **

The Boston Civic Symphony Orchestra, in its definitive second season, plays under the direction of David Bracey, Thursday at 8:00, Saturday at 7:30, and Sunday at 3:00. Tickets: $3.00, adults; $1.00, students. At Symphony Hall, corner of Boylston and Newbury Streets, Boston. Telephone: 353-9500.
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Microsoft will be interviewing on campus for Software Design Engineers and Program Managers on:

February 28, 1990

See your Career Planning and Placement Office for more details.
“Microsoft has the best summer intern program I’ve ever heard of. Interns get to work on real products and have real responsibility. In my four summers as an intern, I have gained invaluable real-world experience, things you can’t learn in school. This summer I worked as a software developer for OS/2 Presentation Manager Excel, optimizing vital parts of the spreadsheet. In past summers, I wrote parts of Word, Mail, and internal tools. I’ve led meetings, worked with a Vice-President of another company, and yes, even talked to Bill Gates. You can get a summer job in a lot of places, but few can walk into an office or store, point at a top-ten product and say, ‘I helped write that!’

George Hu
Software Design Intern
SB MIT (6-3) 1989

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

Bill Johnson
Program Manager
MIT BS (6-3) 1988

“MIT is intense—so is Microsoft. MIT taught me how to think—Microsoft taught me how to program.

There’s always a lot of challenge; we create better products with fewer people than anyone else. That means we use only the best people. Nothing matches the ego rush of shipping a product that all the magazines talk about and people love, and that opportunity exists at Microsoft.

My position at Microsoft involves working with a number of projects, rather than being assigned to just one. My focus is on what I consider the essence of computer science to be; making the code better (faster, smaller and bug-free). Code is where the action is, and Microsoft let’s me be at the heart of it.”

Doug Klander
Software Design Engineer
MIT SB (6-3) 1981

“Working in Advanced Technology, I got to work on some very exciting projects that my manager chose specifically to match my interests in computers. I spent most of the summer working on a simulator that Microsoft will use for in-house decisions and to influence microprocessor design. I read papers and was kept informed on proprietary information about future microprocessors that Microsoft was exploring. I was even flown to SIGPLAN and had the opportunity to meet with prominent architects. I would have been bored with straight coding, so I’m glad my job involved so much thinking and learning.”

Ellen Spertus
Software Design Intern
MIT (6-3) 1990
Dave Ferguson '93 makes an awesome wake with his breaststroke in last Wednesday's meet against Southeastern Massachusetts University.

MIT JV volleyball players Ralph Vixama '92 (#4) and Wooyong Chung '92 (#23) successfully block Tufts' spike. Both JV and Varsity teams reached the semi-finals of Sunday's New England Collegiate Volleyball League Tournament.

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Women's gymnastics gives strong performance at Yale

By Catherine Rocchio

The MIT Women's Gymnastics Team emerged victorious Saturday, January 20th. The season with a meet at Yale on the busiest weeks of its 1990 team recently completed one of the uneven bars for respective scores of 7.5 and 7.2, while Leabourne and Arnold scored 7.65 and 7.7 for their amplitudes and Leabourne earning 8.7, 8.35, and 8.3 for their full-vesting vaults. Rocchio, McCarty, and Martin were also vaulting to their best abilities for scores of 8.2, 8.1, and 7.6. Rocchio earned third place on the vaulting event. Gretchen Martin '92 and Rachel McCarthy '90 performed beautiful handspring vaults for respective scores of 7.5 and 8.1, while the half-on vaults of Allison Arnold '90 and Rose Rocchio '90 earned solid scores of 8.2 and 8.45. Lisa Arel '92 landed her vault for a score of 8.75, while Kortney Leabourne '90 had the best vault of the day for MIT and scored 8.8 to place third overall on the vaulting event.

Although the uneven bars and balance beam events were not the high points of MIT's performance, Arel performed with her usual aplomb and earned a 7.9 on the uneven bars. She also overcame a fall on the balance beam for a score of 7.7. Leabourne had a clean routine on the bars and scored 7.75, while Rocchio used her routine on the balance beam to help the team with a score of 7.4. The floor exercise showed more of MIT's usual strength with Leabourne, Arnold, and Rocchio scoring 7.1, 7.2, and 7.7 respectively. Arel rounded out another fine day with a score of 8.7 for her floor exercise. Her routine included a front somersault through to a half-twist in the first pass, a front somersault, a back somersault, and a front somersault with a half-twisting Arabian front somersault.

MIT came home on Wednesday night determined to perform their best routines. Arel earned her highest score of the season on the vaulting event for the meet with a score of 9.0, while the Rocchio, Arnold, Leabourne, and McCarty all backed her up with their best performances for scores of 8.3, 8.2, 8.25, and 8.0.

The floor exercise was the best overall performance by MIT thus far. Arel and Arnold again performed energetically for scores of 7.05 and 7.2, while Leabourne and Arnold scored 7.65 and 7.7 for their amplitudes and

Lisa Arel '92 scores points with her balance beam routine.

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A Bounty of Basketball...

MIT's varsity women defeated Wellesley on Thursday, played Nichols College on Saturday, and on Monday went up against Anna Maria College.