Baker programmers win nationals

By Steve Kiech

Despite numerous difficulties, a team of four computer science majors from Baker House won the Second Annual National Association for Computing Machinery (ACM) Student Programming Contest held last Wednesday in Detroit in conjunction with the 1978 ACM Conference.

The team, Abe Lederman '80, Larry DeMar '79, Curt Sanford '80, and Dan D'Eramo '80, came in first in a field of 24 teams representing schools from all over the country. Eighteen of the teams, including MIT (see The Tech, Feb. 17), had won regional contests or had come in second.

The object of the contest was to solve four computer programming problems as fast as possible using ANSI FORTRAN. All four problems were given to each team at the start of the contest, and the teams received one "problem minute" for each minute that each problem remained unsolved. Unlike the regional competition, teams were charged points for every run: 10 points for a "test run," in which the team supplies its own test data and 15 points for a "judged run." In a judged run, the teams are only told whether their answer was a) right, b) right but printed in the wrong format, c) right but did not use ANSI FORTRAN, or d) wrong. Teams were not permitted to see the output from a judged run.

The contest was scheduled to begin at 10:30 Wednesday and run till late the next morning. But scheduling problems delayed the start of the contest until almost 7 pm. At the end of the contest was extended to 1:30 am.

Michigan State turned in the first successful problem solution at 10:30 pm. Two hours later, Sanford of the MIT team turned in the second solution, followed by MIT's final solution at 10:59 pm. The contest ended at 1:30 am.

The survey will have no effect on this year's graduation, however, because the commencement ceremony has already been scheduled for Rockwell Cage.
Problems plague ACM contest

Although the contest had officially ended at 2:15 am, the first person on the MIT team to turn in a correct solution was confident that his judged run would be declared the winner after having been satisfied with the results of his test runs. He was surprised when his judged run came back marked "wrong" with no explanation. As he went down the list of the judges' runs he had realized one of the functions making his run unsuccessful. After another hour, he had the correct keypunch and re-submitted his deck. He was successful.

Problems with the system used to generate the punched cards that the computer uses for input frustrated all teams in the contest. Because the contest was held in the Detroit Plaza Hotel in the Renaissance Center, contest officials decided to provide six professional keypunchers to handle all the programs from the 24 teams, instead of providing one keypuncher for each team as was done last year when the contest was held at Georgia Tech. Because of this, however, everyone on the MIT team was pinched and concerned.

Tf)opolitan wait times for the express keypunches were 90 minutes. "There was one problem in there which every team should have been able to solve," Sanford said, "but the only reason it happened was because of the conditions under which we were operating." Sanford revealed the secret to MIT's success. "The key to the contest was getting your stuff punched early. After spending an average of three and a half hours getting a card deck punched and corrected, the deck was then from 30 to 40 minutes far out from the computer. "Things got very slow when one of the two 300 line per minute line printers broke down [at 2 am]." DeMar said the computer, a CDC Star 100, which Sanford described as "one of the fastest in the world," did not fail during the contest. While there were two back-up computers for the contest, there were no back-up line printers.

Other problems affected the MIT team. "The keypunchers lost one of my decks," DeMar stated. After waiting 15 hours for his deck and noticing that his keypunches were incorrect, he submitted his deck back. DeMar started asking questions. Contest officials could not locate his deck. At 3 am MIT's fifth place, Sanf ord had lost his copy of the coding sheet he re-wrote his program and re-submitted it. Because it was the contest had officially ended at 2:15 am, he ran until 3:30 am from 0:215 to the end and his judged deck was run. Contestants were not informed of this fact, however. Furthermore, since decks were not returned until after the contest, some teams had those who submitted test decks after 2:15 am never saw them again. DeMar explained possible causes for this policy. "They wanted those teams to have a responsive run-turnaround and they didn't think there would be time for people to get their test runs ready for a judged run before the end of the contest." Contest officials were unable to explain mean to page 3.

Brin Your Wedding to Arlington, Vermont

Let's bring your wedding to a historic country inn, and rustic log cabin with tircplace's cool trout stream for your wedding party and guests. Let's work with you to create the wedding of your dreams col' about two hours R, in one of my decks." DeMar stated.

According to members of the MIT team, this system led to wait times of about two hours for decks of 50 to 100 cards. Unfortunately for the competing teams, the keypunch was far from perfect. "I'd say that the keypunchers had about 50 percent accuracy," DeMar noted. Two "express" keypunches with a 10-card limit were provided for teams to correct cards with errors. DeMar noted that many teams took advantage of these keypunchers. "Probably about onethird to two-thirds of the people were in line at any time. We waited about one-half our time in line at all times." Typical wait time for the express keypunches was 90 minutes.

Teradyne needs Software Designers

We'll be interviewing on campus March 6, 1978

Teradyne is a Boston-based manufacturer of computer-operated test equipment. We produce test systems for discrete semiconductors, linear and digital integrated circuits, circuit board assemblies, cables and backplanes, telephone subscriber lines, as well as systems for laser trimming of thick and thin film circuits. Recently, we have produced testers for automotive electronic modules and TV subsystems. Thus we offer diverse opportunities in a company still small enough to depend upon individual contributors.

Teradyne needs Software Designers - people with a solid grounding in computer science and a desire to apply that knowledge. How might you fit in? Here are a few of the things we are now doing and with which we need help:

1. How does one design a sophisticated computer system for non-sophisticated users? We invest a lot of energy in the man/machine interface.
2. Where do the test patterns come from for a microprocessor or a complicated digital logic board made from thousands of gates? (We're not sure of the exact number.)
3. Where do the test patterns come from for a microprocessor or a complicated digital logic board made from thousands of gates? (We're not sure - got any ideas?)
4. A floppy disk based operating system.
5. What advantage would high level system programming languages offer Teradyne?
6. The design of a set of development tools for the 880 microcomputer - a symbolic debugger, linkage editor, relocating assembler.

Teradyne needs people who enjoy practical rather than purely theoretical engineering. We're looking for a technical sensibility in solving real world problems for fun and profit, the energy and vision to make things happen, and - because our ten-year warranty demands engineering thoroughness - a willingness to see projects through to a beginning to a end.

We will be interviewing at MIT Monday, March 6, for full-time positions, and again on April 4 for both full-time and summer openings. Full-time and summer positions are available in Boston (near South Station), near Los Angeles and near Chicago.

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After college, you'll receive a commission in the Air Force ... go on to additional, specialized training ... as you get your start as an Air Force officer. There'll be good pay and responsibility, and lots of other benefits ... and a great opportunity to serve your country.

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Contact: Capt Steven L. Orton, AFROTC Det 365, 20E-111, phone 253-4475.

Air Force ROTC

183 Essex Street, Boston, MA 02111

Teradyne needs Software Designers

We'll be interviewing on campus March 6, 1978
Opponent remains jailed — Premier Hsu Kuo-feng detailed the direction of China's development in a report to the National People's Congress last Sunday. Hsu proclaimed a clear direction for the "comprehensive modernization". Hua also emphasized continued preparation for the "liberation" of Taiwan and the use of material incentives to motivate the workers.

Additional money for student loans — Grant and low-cost loans for college students were voted an additional $1.5 billion at more than 1,000,000mph, relative to the universe as a whole. University of California scientists, who made the finding, have found that our galaxy is hurtling through space at a speed exceeding a million miles per hour. University of California scientists, who made the finding, have found that our galaxy is hurtling through space at a speed exceeding a million miles per hour. Relative to the universe as a whole, our galaxy is moving at a speed of more than 1,000,000 mph. Scientists have found that our galaxy is hurtling through space at a speed exceeding a million miles per hour. The discovery was made by University of California scientists, who have found that our galaxy is moving at a speed exceeding a million miles per hour. Scientists have found that our galaxy is hurtling through space at a speed exceeding a million miles per hour.

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As one of the few companies in the world capable of exploiting the full potential of today's most sophisticated computer hardware and software systems, National CSS has consistently shown itself to be a leader in Total Information Processing. Our operations include the largest IBM-based computer system in commercial time-sharing, and we will soon be introducing a line of state-of-the-art mini-computer systems. As for Research and Development, National CSS ranks Number 1 among all U.S. computer companies in R&D dollars spent per employee and in total research and development expenditures. As a National CSS professional, you will be deeply involved in a multi-project Systems Development environment, working in a stimulating environment conducive to career growth. In the following systems programming areas:

- Developing distributed data base technology.
- Developing sophisticated high performance time-sharing operating systems utilizing virtual memory and paging techniques.
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- Middleware software for expansion of our international packet switched communications network.
- Interactive software for program debugging and test editing.
- User-oriented problem-solving environment.
- State-of-the-art minicomputer systems.

If you are motivated by challenge and opportunities for significant accomplishments, National CSS is for you.
**Technologists and today's new morality**

By Rob Wasserman

The United States has experienced a new kind of post-Watergate morality, but the question of professional ethics has been an important one for the hundreds of students who work in the country.

Perhaps the most prominent instance of the misuse of scientific knowledge is the atomic physicists and the nuclear bomb. Albert Einstein and others argued against the Project until it was too late. In the technological society of today, engineers and scientists have a great deal of responsibility to the American people, and this power must be used carefully. There is a strong belief in the United States in the "Technology," which argues that technologically-caused problems can be solved by more technology.

The American public, however, has begun to be wary of the Technol-

ogy and the Humanities, should offer ethics courses, similar to curriculums have recently become.

I work on creating nerve

cells available for scientists and engineers, not directly for engineers.

The ports have drawn criticism from both conservationists and economists. Everything the people in charge were working on made

people nervous, and shaken-up as possible to attempt to establish my illness.

Lazar '81. David McCall

Sports Editors:

Dale Senechal

Solomon

perspectives

A unified School of Engineering?

In the other:

Financial difficulties and over-

standing have recently become bottlenecks not from MIT students, but from our own policy. Considering the increasing interest in engineering, the pros of a unified school make clear. But the cons of such an approach are

criticized departmental boundaries. It also had to be

unified engineering would provide a similar education to interdisciplinary fields. It would be possible for students majoring in fields of each type of class.

many problems associated with this proposal, the road to their implementation is anything but clear cut. I do however believe that such a program would ultimately benefit all parties and it is from this reason that I ask that this proposal not be forgotten. I hope that the faculty will reexamine the unified engineering program on basis of the points I have presented.

Bradley S. Albom '78

February 14, 1978

Hospital thanks snow sculptors

By Mark J. Vukavey

Last Friday I was interrupted by one of the most influential men in the history of nuclear power. For six hours I was worried, flooded, shocked, and trembled, all at the command of a short, heavy-handed, not-yet-spoken man. It was a

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Navy got their man

Continued from page 4...

Rickover, we would be interview-

ed by at least three other mem-

bers of his staff.

From the check-in point 25 of-

novies pasted on a waiting

room no larger than 20 by 10

feet. From this cubicle we were

fished for preliminary inter-

views.

In the meantime, we waited, fea-

tlessly. Richard. "Ricketson" was

our name. One story was of an

applicant who stood trembling

before Rickover, who demanded

of the young man if he had 30

seconds to make an angry. "With

his hand, the applicant swept
clear the top of the Admiral's

desk, papers and pencils flying

about the room. 'I'm not angry'

yet. Rickover replied.

Really worried now, the fellow

looked around the room. By the

desk was a glinting, meticulously

detailed model of the USS

Nashville, the first nuclear-

powered submarine. He picked it

up and smashed it in bits on the

Admiral's desk.

There was quiet for a moment,

then an explosion from the Ad-

miral. "Out!"

The applicant was accepted.

But it would be hours before my

turn would come. My three

preliminary interviews with aides

to Rickover were welcome relief

from the nervous waiting.

Although the interviewers were
careful to maintain strict for-

mality with me, the half-hour in-

terviews were bearable.

Questions ranged from "How much

time a week do you spend study-
ing?" to "Derive the formula for

the volume of a cone." But al-

ways it was stressed that these

interviews were simply to give the

Admiral more information when

he went to make his decision on us.

It was clear that Rickover was

good.

At one, ten of us were moved to

the Admiral's conference room.

Two senior officers briefed us on

how to walk in to the Admiral's

office and what to say. "Use no

bullshit with the Admiral. The

Admiral has to be taken seri-

ously. Don't give me any of that

bullshit, don't walk in there with

your patriotic little flag. If you're

in this for the money and he asks

you what you think, that's a

try and outguess the Admiral."

I sat waiting, afraid that

everyone in the room could hear

my heartbeat.

Then, he turned around and

saw my name, indicated--"Munka-

sey. Admiral Rickover wants to

see you first.

I stood up and thought, "No,

not me. Not first!"

I walked into Rickover's inner

office, keeping my eyes glued on

the little frail man behind the

big desk. I suddenly, I just made

that up because I have absolutely

no recollection of what his desk

looked like, what the office

looked like, what he was wearing,

how big the office was, or even

whether there was anyone else

in the room besides the two of

us. I didn't notice any of that.

I sat down and waited. Rickover

was sitting on the edge of a

chair, with his feet on the desk.

I breathed, expecting a question

like, "Why are you going to

study naval architecture and

what are your goals?" but I had a

carefully prepared answer which

I desperately couldn't remember

or, "How long have you been

interested in this type of

work?" The Admiral sat back

and asked, "What does Munka-

sey mean?"

I fought back a smile. It seemed

funny. I wanted to say, "I'm not

here to talk about my last name.

"I mean, from the town of

Munka-sky, sir.

"Where's that?"

"Hungary, sir.

"What do you think people

started using first names in Europe?"

"I don't know, sir."

"Gipsy."

"The sixteenth century?"

"No, it was much later than

that." Rickover pursed, and

looked over my academic record

"Do you think you could be an

outstanding physicist?"

"Yes, sir, if I tried hard

enough."

"No. you couldn't get out."

I trembled my way out of the

office, and looked into the scared

face of the next fellow waiting to

go in.

I was sent upstairs to a

secretary, who somehow already

know what the Admiral's decision

was. With great ceremony, she

asked to turn a piece of paper on

her desk and said, "Congratulations,

Mr. Munka-sky, the Admiral

wants you."
Vanities: thin comedy and weak drama

By Dine Blakeman

Even though Academy Award nominations have been bestowed upon both Woody Allen's "Annie Hall" and the major cheerleaders of the annual Oscar competition, the three most popular girls in school as being condemned by people both in and out of the motion picture industry as being being condemned by people both in and out of the motion picture industry as being

This year marks the 90th anniversary of the annual Oscar competition, and the list of nominations reflects the fact that in the past year there were very few outstanding performances. In this column, I will list my choices for the major awards as well as indicate who I think will win in those categories, keeping in mind that artistic achievement has not necessarily been rewarded in the Academy in the past.

The nominees for best picture are: "Annie Hall," "The Go-Between," "All the President's Men," and "The Turning Point." My personal favorite is "Annie Hall," which I feel is Woody Allen's best movie to date. Either Allen's semi-autobiography or the Turning Point, I believe, would finally give Allen his due, but giving Woody Allen's best movie to date, Woody Allen's best movie to date...

The nominees for best actress are: Anjelica Huston ("Annie Hall"), Shirley MacLaine ("The Turning Point," and Mantha Mason ("The Go-Bye Girl." This category is one of the most hotly contested because of the abundance of good roles for women this year. It would be nice to see Diane Keaton win for her excellent performance and timely "I'd-be-back." Annie Hall, which would not be the smash hit it is, and she has a good chance, because her starring role in the horror film "Terry Dini in London for Goodbye Girl" also during this past year. All five actresses should be highly commended for their work, but only one will win: most likely Keaton or Jane Fonda. Anne Bancroft and Shirley MacLaine will probably split votes that would have gone to either one had the other not been nominated.

The nominees for best actor are: Woody Allen ("Annie Hall"), Richard Burton ("Julia"), Richard Dreyfuss ("The Go-Bye Girl." Marcello Mastroianni ("Ski of, and John Travolta ("Saturday Night Fever." Woody Allen is my choice here. Maybe I've been smitten with him, but I think he's the best of the five. Richard Burton has an excellent shot at the Oscar after his previous unsuccessful tries even though his performance was panned by virtually everyone, and his winning would correct a long-standing oversight on the part of the Academy. Richard Dreyfuss has a good chance, too, since he's so charming and talented, but he's already so much better than the others. Even though I feel that Robards was a bit better in his performance in Close Encounters was going for the year's last, although he's not. Woody Allen ("Annie Hall"), George Lucas ("Star Wars"), Herbert Ross ("The Turning Point," Steven Spielberg ("Close Encounters of the Third Kind," and Fred Zinnemann ("Judex." George Lucas' job of directing Star Wars was masterful. It is astounding that he has been able to make all of the individual aspects of that film into any sort of coherent entity, and should be to the Academy's overwhelming choice as well as mini-procession.

The nominees for best supporting actress are: Bette Midler ("The Turning Point," aurelia lead in "Close Encounters," and Lesley Browne ("The Turning Point," both with excellent chances. However, I do not feel that any of the nominees is worthy enough for an Oscar, but they are all... honoring Annie Hall would finally give Allen his due....

The nominees for best supporting actor are: Mikhail Baryshnikov ("The Turning Point," Peter Firth ("Equus"), and Al Pacino ("Star Wars." Jason Robards ("Julius," and Maksimilian Schell ("Julius," which garnered five Academy Award nominations including best picture. Keaton was nominated for best actress, and Allen received three nominations, for best actor, best director, and best original screenplay. He is only the second person to be so honored — the first was Oskar Well for his film "Citizen Kane." Well is still an anomaly in 1941. Allen has a good chance in this year's competition.

Are You A Good Listener? Do You Have An Outgoing Personality? Interested In Being A Graduate Resident In An Institute House Or Independent Living Group? Come to room 7-133 for more information and an application.


**Around MIT**

**Star Wars** to get technical Oscars (Continued from page 6)

The Tufts Union (Arthur Laurens).

I really enjoyed _The Late Show_, and that was largely due to the intelligent written script. Since that movie was almost completely and undeniably passed over by the Academy, particularly in the case of Lily Tomlin, I'd like to see it get something more for itself. _Star Wars_ probably has a better chance of winning, though. The dialogue in _Star Wars_ is for too many for that to be as obvious an Oscar.

The nominees for best screenplay adaptation are: _Gidget_ (Elia Kazan and Alan Pakula) and _The Turning Point_ (Alvin Sargent), _I Never Promised You a Rose Garden_ (Gavin Lambert and Lewis John Carlino), _Julia_ (Larry Gelbart), _Annie Hall_ (Arthur Laurents), _V for Victory_ (John Barr and Jean-Claude Carriere). _Julia_ should win here. It is a well-executed script, and should be honored here since the film is not likely to win many other Academy Awards. _The Turning Point_ of Desire will probably be tagged as best foreign language film.

_Star Wars_ should be the big winner among the less prestigious, although by no means less important, awards. The top-grossing film of all time will undoubtedly win the award.

**The Telecast**

The ceremony on ABC on Monday, April 3, will be big winners in the Oscar-race. With the telecast of the Academy Awards, we'll all be able to sit back and watch the televangelists. _Oh, God!_ will be interviewing BS, MS, and PhD graduates for:

**In Town**

**National Symphony, from Washington.** Rostropovich conducts Tchaikovsky, Berlioz, and performs the Haydn Cello Concerto at Symphony Hall, Wed., March 1, at 8 pm. For info, call 266-1492.

**Harry Chapin,** in concert on Thurs., March 2, at 8 pm at the Music Hall. Tickets $7 and $7.50 tickets at the box office, Tickerton, and Strawberries.

**Outlaws,** in concert with guests Sea Level and BillUMB, Fri., March 3, at 8 pm at the Orpheum Theatre. Tickets $7.50 and $8.50 tickets at the box office, Tickerton, and Strawberries.

**Jimmy Buffett,** in concert, with guest San-ford and Townend. Thurs., March 9, 8pm at the Orpheum Theatre. Tickets $6.50 and $7.50 tickets at the box office, Tickerton, and Strawberries.

Rush, in concert with guest The Babys. Fri., March 10, 8pm at the Orpheum Theatre. Tickets $6.50 and $7.50 tickets at the box office, Tickerton, and Strawberries.

Bruce Springsteen is planning a threcon- cert, April 11-13 at the Music Hall. An- pociate swift first-come, first-served ticket sales be prepared to race to the box office when they're announced.

**In Theater**

Flight, a concert of new daneworks based on aspects of airborne flight, March 9th through 12th at the Music Hall, Mass. College of Art, 364 Brookline Ave., Boston. Tickets (on sale in Lobby 10) are $5, proceeds go to MITSA. For info, call 423-3001.

**Coppella** will be performed by the Boston Ballet at the Music Hall, Thurs.-Sat., March 9-11, at 8pm and Sun. mat, at 2:30pm. _Anouk,_ by Paul Taylor, is also in- cluded in the program. Tickets $3-$12.50, for info, call 423-3001.

Vanities, an account of the growth of three Texas high school cheerleaders into middle age. At the Charles Playhouse, 76 Warren St., Tickets, $5.95-$8.95 at the box office (426-6912) or Thetreacharge (426-8181).

**Davinci**, a new musical directed and choreographed by Bob Fosse will run at the Colonial Theatre, 106 Boylston St., Boston, March through 11. Tickets are available at the box office (426-9366) or by theatercharge (426-8181).

**Pippin,** the Broadway smash, will be run- ning in Boston at the Shubert Theatre, 265 Tremont St., thru March 11. Tickets, rang- ing in price from $10 to $16.50, are available at the box office (424-4570) or Tele-charge (482-2425).
MIT ELECTRICAL ENGINEERS . . . .

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- COMMUNICATION AND INFORMATION THEORY
- RF DESIGN
- LOGIC DESIGN

LINKABIT Corporation is engaged in the development, design and manufacture of communication systems and components primarily for satellite and space application.

LINKABIT was founded 10 years ago by a group of MIT engineering graduates. Since then, we have grown to a company of over 250 employees, including a growing number of MIT engineers, as evidenced by this list of LINKABIT staff members from MIT:

Irwin Jacobs, '59, President
Andrew Viterbi, 57, Executive Vice President
Andrew Cohen, 58, Vice President, Programs
Jerry Heller, 67, Vice President, Engineering

Art Ross, '72, Technical Staff
Larry Jankauski, '76, Technical Staff
Steve Blake, '77, Technical Staff
Lindsay Weaver, '77, Technical Staff

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MON., MAR. 6th

SHOULD YOU BE UNABLE TO MEET WITH US, PLEASE SEND YOUR RESUME TO:

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LINKABIT CORPORATION
10453 Roselle Street
San Diego, California 92121

An Equal Opportunity/Affirmative Action Employer
MIT team returns with trophy

(Continued from page 2)

arrange with the hotels for an exten-
sion on the use of the conference
rooms the teams had been using.
Teams were evicted from their
conference rooms at 1:30 am. The
MIT team took up residence on the
floor in front of the 1/O (in-
put)

Contestants were told they
could only question the judges,
but that only reasonable
team about the contest: "It
thought the awards presentation, "They
judged run being returned as
the chessboard." An incorrect
answered. He cited as an example:
according to D'Eramo} none of the
questions would be answered. Ac-
cepted could ask written questions of the
put/Output) desk.

conference rooms at 1:30 am. The
MIT team organized
nership. Lederman took matters
no ACM chapter here to -organize
an ACM newsletter. Since there is
about the regional contest from

Because of these difficulties, the
MIT team considered refusing the
round trip to Cambridge. "It was run
very poorly."

The MIT team was organized
by Lederman who found out about
the regional contest from
an ACM newsletter. Since there is
so no ACM chapter here to organize a
team, Lederman took matters into his
own hands and put up posters to
recruit a team. After receiving no response, Lederman asked three of his
friends from Baker House to join his
team. One team member, D'Eramo, had never written any
FORTAN programs before the contest. Unlike his teammates, he
had never been employed as a
computer programmer. He
learned to programs computers
in FORTRAN for a long time,
they prepared for the regional
contest in much the same way
we all ran a program on Multics.
three hour practice session where
we did not feel this would be right since MIT paid the
plane fare to get the team to
Detroit. D'Eramo added that at the awards presentation, "They
didn't let any of the teams speak."

D'Eramo summed up the feeling of the team about the contest: "It
was run very poorly."

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by Lederman who found out about
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The MIT team received a
trophy, five certificates (one for
each member of the team and one
for the school), and their choice
of two Prentice-Hall books
apiece. "We had a tough time
choosing our books," D'Eramo
didn't let any of the teams speak."

But the real winner of the con-
test appears to be a professor of
physics here at MIT. D'Eramo ex-
panded: "Heretoo a college
team told our team that one of
their physics professors is one
of our physics professors, whom
we do not know the identity of, a
case of California wine against
a crate of New England lobsters."
The team would appreciate if
the physics professor would make
his identity known to them.

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CIA-University ties probed

(Continued from page 1)

Harvard and MIT, and many other institutions as well, are responding to revelations that the CIA developed secret, complicated, and sometimes unethical relationships with academics at more than 100 universities in the country in the 1950s and '60s. It is not clear that such relationships have all been terminated.

In an interview last week, MIT's Chancellor Gray agreed that the universities are "vulnerable to covert penetration and said he believes legislation protecting such relationships might be useful.

In the discussion included with the published Harvard standards, the study group members asserts that covert recruiting should not be allowed because "it is inappropriate for [academic] to be acting secretly on behalf of the government. ... Individuals may be probing the views of others and obtaining information for the possible use of the CIA. [That is]

MIT image has improved

Editor's note: Many students were on the "same" floor in their calling card into graduate school or industry, but it isn't always known that they were in the same floor. (Reprinted from May, 1976)

A member of the staff of The Tech that the situation was "unusual" during the course of which he asked the question. The staff employed the Massachusetts Institute of Technology, and said that he was a little un

Looking back

Better service for Walker

Editor's note: Could you imagine walking into a store, not knowing if you will find a good product, or if the service will be satisfactory? Printed instructions telling how to serve food at the banquet rooms in Walker Memorial have been furnished to all the student waiters employed by the Dining Service, in order to improve the service, which has been criticized quite frequently of late. These instructions give complete information concerning practically all things which the efficient waiter should know.

Some ideas as to what the prevailing opinion of the banquet service which is held by Institute members is, as well as the remarks of Professor Robert E. Rogers in a recent issue of Technology Review. He says: "And the waiters are dear good boys, a credit to the Institute for their effort. But at the Calculus and adept at throw-

LSC apologizes

to our patrons of Rocky's last Friday. There is no excuse for a print of that quality. We are currently negotiating for a free showing of Rocky later this term.
sports cont.

Fencers heading for Easterns

(Continued from page 1.)

Smith '78 won undefeated in the team competition and John Rodrigues '80 took second bonus to win a total of sixteen, a performance equalled by the Trinity sabreurs. The Vital Award is named after the late Silvio Vitali, coach of the MIT fencing team for many years. The award was initiated last year, when Smith and Robert Shin '77 won it in saber.

Smith and Rodrigues went on to the finals, where Smith's outcome was the first and third in saber, as well as first and second in epee. Rodrigues won the Epee, and Smith and Rodrigues lost to Dartmouth epees in the individual finals.

It was Dartmouth's day. They took MIT for first and took first and third in saber, as well as first and second in epee.

MIT meets St. John's and Har- vard, and class journeys to Princeton for the Eastern Fencing Championships on March 10 and 11. Coach Fred Smith said, "The Easterns will be tough, real tough." Nonetheless, the team will be fielding a strong foil squad that could potentially win a third Eastern foil Championships for MIT.

For the Easterns, Smith will be back in foil to defend his individual crown. He will also fence foil in an independent in the NCAAs championships in March. Both Sabre. Smith and Rodrigues are junior champions of one sort or another, including national and world. It promises to be an excellent meet.

W Swimmers end at 2-4

By Gregg New

The MIT women's swim team closed out their season with outset last week by losing to Northeastern 62-36 on Tuesday, defeating Brandeis 78-60 on Friday, and bowing to Wesleyan 70-45 on Saturday. This brought the team's final record to 2-4.

On paper, Northeastern had a far superior squad. However, utilizing swimming and strong individual efforts by the MIT team dispelled the predictions. MIT should not have been close but before the final event they were ahead 35-35. Northeastern came back to win the relay by two seconds, giving them the meet. This contest was reminiscent of the MIT-Trinity match earlier this season when MIT fell short of an upset victory by two points.

Against Brandeis the team won all but four events. In the 200-yard medley relay Libby Gehrke '81, Sheila Kanoke '81, Karen Fabricus '80, and Ruth Harris '81 teamed up for the victory with a time of 2:38.7. Gehrke also won the 50-yard and 100-yard backstroke event. Judy Snodgrass '81 was also a triple winner, taking the 100-yard freestyle, the 100-yard butterfly, and the 200-yard freestyle events. Captain Tina Kangas '78 won the 100-yard breaststroke with a 1:24 clocking.

By contrast, against Wesleyan MIT could win only four events. Fabricus, who suffered a knee injury before the season, was back in form Saturday winning the 50-yard free-style sprint in 27.4 and following with a fine place in the 50-yard butterfly race. Kanoke won the 50-yard breaststroke in a final time of 35.8 and Snodgrass finished first in the 500-yard swim.

The biggest problem facing the team this season was not a lack of talent, but a lack of new swimmers to increase the size of the team. Only four new women, Sue Donohue '81, Harris, Snodgrass and Gehrke joined the team. With Kangas, Carol Seigal, and LSU. Larnt graduating this year, MIT will need many new- comers next year to complement the strong existing nucleus.

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Cagers bomb Connecticut

By Michael Tavish
"We expect to win." So spoke head coach Francis C. O'Brien just before MIT took on Connecticut College last Saturday afternoon at Bucknell Cage. Coach O'Brien's words proved prophetic as the Engineers proceeded to win the game 75-64.

Although MIT has not had a particularly good season, with their record standing at 5-3, they played a good, exciting game of basketball on Saturday. The game started out slowly without either team really taking strong lead. By the end of the first half, Connecticut College was leading 36-39.

For MIT the half was characterized by good defense. They were also getting inside with ease. When the two teams came out for the half, the things were completely different. Up to no point in the game, MIT was playing a fairly easy going game. Suddenly, the two teams stepped up their attack. The theme of the second half was aggressiveness. Both teams were continually on the go, always driving in for the other's basket.

It was nip and tuck for most of the half, with both teams trading baskets all the way through. MIT held a two point lead as the game entered the final two minutes. The pressure was on, but the Engineers came to the occasion. They grabbed another basket, then made three free throws to put them seven points in the lead. Connecticut just seemed to come apart. The game ended with MIT winning by 11 points.

The two top point-getters for MIT were Thomas Benson '79, and Robert Clarke '81, who got 28 and 24 points respectively.

Swimmers finish year 5-3

By Gregg Stave
This past Saturday the MIT swim team overpowered Wesleyan 60-30 at Middlefield, Connecticut. While this concluded the dual meet season, bringing the final record to 5-3, the Bishops are preparing for the New England Championships which will be held at Springfield College starting on Thursday. Having finished eleventh last year, the team has a good chance to break into the top ten this year.

Wesleyan provided little competition for MIT who won every event except for the 50-yard freestyle race. In the 100-yard freestyle Gene Horneid '78 and Tom Vaney '80 swim side by side the entire forty laps and finished simultaneously. The judges arbitrarily awarded the race to Vaney. Tim Ramsey '79 won the 200-yard freestyle event with John Dicken '80 right behind him. Ramsey, Dicken, Mark Hunzinger '81 and Greg Floro '79 will team up for an 800-yard freestyle relay at the New Englands in an attempt to qualify for the Nationals.

In the spirit races Ken Calvin '79 won the 50-yard freestyle in 23.1 with Matt Alves '80 taking second with a 23.9 docking. Later in the meet the order was reversed with Calvin winning the 100-yard freestyle in 51.8 for his best time this season. This finish time is even more remarkable because the Wesleyan pool usually produces slower times.

Captains Preston Vorlick '79, who received his American honors at last year's Nationals, will attempt to qualify again in the 200-yard breaststroke. On Saturday, Vorlick won the event in 2:25. Chris Morn '80, who won the 200-yard individual medley against Wesleyan, will attempt to qualify in the 200- and 300-yard breaststroke events.

The medley relay team of Dicken, (backstroke), Moss (breaststroke), Horneid (butterfly) and Hunzinger (freestyle) also has a good shot at qualifying for the Nationals at the upcoming championships meet. Dicken, utilizing his now famous "cling and sing" technique, where he hangs onto the backs of unsuspecting opponents and strikes at the end of the race, won the 200-yard breaststroke against Wesleyan. He completed the last two laps in 31.3 to thundersome applause from his teammates.

Five Ken Brady '79 should do well at the New Englands and will probably qualify for the National. Brady didn't dive against Wesleyan because he broke a tooth warming up on Saturday. The water under the diving board was only eight feet deep.

Competition at the New England Championship meet will be tough, MIT, a member of the New England Small Colleges Division and NCAA Division III, will be facing schools with larger student populations and several who give athletic scholarships. Excellent progress has been made this season and team members are in peak physical condition but it will take intelligent swimming for the team to finish at one of the ten best in New England.

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