Tonegawa wins Nobel Prize in medicine

Nobel winners at MIT

Professor of Biology Susumu Tonegawa is the eighth member of the MIT Faculty and the fourth member of the biology department to win the Nobel Prize.

The winners of the Nobel Prize in physiology and medicine include: Tewhey defends MIT's current alcohol policy

Professor Susan Morrow, who joined the MIT faculty in 1977, shared the prize for his work on the interaction between tumors and normal tissues; Richard J. Lerner, Institute Professor Emeritus, who shared the prize for his work in the field of biochemistry.

The economics department has two Nobel Prize winners: Institute Professor Franco Modigliani, who in 1985 won the prize for his "life-cycle" savings hypothesis; and William Baumol, who in 1986 won the prize for his work in the field of corporate finance.

The electrical engineering department has two Nobel Prize winners: Institute Professor Samuel C.C. Ting, who shared the 1976 Nobel Prize in physics, for his discovery of a new kind of heavy elementary particle; and Arthur Kornberg, who shared the 1959 Nobel Prize in chemistry.

The University of California at Berkeley and the University of Tokyo, which won the 1958 Nobel Peace Prize.

By Andrew L. Fish

The Undergraduate Association Council approved plans for a UA-run store in the Student Center. The Executive Board proposal was accepted by a vote of 21-4 with three abstentions after almost two hours of heated debate.

Some students challenged the proposal as self-interested, noting that a UA-run store would use a portion of the Student Center's budget, but said that a UA-run store would also bring added charges of favoritism in the selection process.

The UA store will be located on the first floor of the Student Center and will operate for the 1987-88 academic year. The store will sell stationary and books which will be initially supplied by the Coop.

The main opponents of the plan appeared to be members of the Student Center Council—SCC—President Stephen W. Cathcart, Coordinating Manager Lisa B. Russell '88. In addition, Jonathan N. Katz '90, chairman of the Student Committee on Educational Policies, expressed concern that the store could be operated at cost.

Rodriguez said after the meeting that the store could be closed "in a day" if it was losing money. He said he would shut the operation down if losses grew to $1000. The Coop has a $1500 budget, but said that a UA-run store would require a $1000 budget, but said that a UA-run store would bring additional charges of favoritism in the selection process.

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Tewhey defends MIT's current alcohol policy

By Andrew L. Fish

Acting Dean for Student Affairs James R. Tewhey is standing by MIT's current alcohol policy, in spite of a confidential Campus Police report critical of its enforcement.

While MIT's Legal Affairs Off-

ce Thomas R. Shoff, who said that he did not want to take sides between the Campus Police and the OSSA, expressed concern that the alcohol policy "be enforced through appropriate mechanisms." Enforcement is the responsibility of the OSSA, 20, said.

Tewhey acknowledged that if current alcohol practices continue, "there is every reason to expect that there will be increases in the number of incidents of alcohol-related mishaps."

The City of Cambridge is considering an ordinance, written by the Cambridge City Council's Responsible Research, which would require public review of research on laboratory animals. The ordinance calls for monitoring painful and placing Cambridge citizens on the Animal Care Committee of labora-

Tewhey said he wants to continue educational programs to get students to use common sense when dealing with alcohol. But he offered few specifics.

In fact, the OSSA has not allocated any of its funds to alcohol education this year, said Barbara Finner, campus activities director, in August. Finner said that the OSSA runs a summer program out of her $1000 budget, but that a realistic program would require $5000.

Report warns of liability

A confidential report prepared by Campus Police Commander John O'Reilly documented "major problems" as more than a third of the 247 social functions that the police place at MIT last year. The report warned that a lack of enforcement of the alcohol policy could leave MIT liable in the result of an alcohol-related mishap.

Tewhey said that MIT will "be held to the standard that we set" in any alcohol-related lawsuits. He emphasized, however, that the Department of Health was not involved with the current enforcement of the alcohol policy.

But a court would also look to "the viability of the standard" that MIT sets — the MIT policy has stated that their main objective is "to assure that laboratory animals are treated kindly, but to full all research with animals." The enforcement of such an ordinance would, according to Hambrook, require biological research to be more thorough.

Arthur C. Grant, a student in applied biology, opposed the provision that painful experiments would be only if it is designed to find a cure for a debilitating disease, such as cancer or Acquired Immune Deficiency Syndrome. The definition of "painful experiment" in the proposed ordinance is very vague, he explained.

Grant conceded that "Animal activists and animal rights people are generally motivated by their concern for animals" but he noted that "their legislation might have adverse effects regarding the animals." For example, he noted that committee members have opposed storage of more than one rat per cage for their lab course. Grant said that rats are, in fact, social creatures who prefer company and have been observed to become viciously hostile if left to themselves.

Grant also charged that the CCRR's real objective is to eliminate animal research. "I am convinced that the CCRR wants to stop research, not have research available to study," he explained.

The ordinance calls for placing an Animal Welfare Advocate on the Animal Care Committees already exist for laboratories, according to Lea Zush, executive director of CCRR. This person would be a Cambridge citizen who is not involved in medicine or research.

In an interview for the August 1987 New England Monthly, Agn studied the data for a particular group of animals, that there were no allergies. We were surprised to find out that the animals were not allergic to the food.

We realize that there are some very important medical research involves the use of live animals," he said.

"We know that there are some very important medical research involves the use of live animals," he said.

"We know that there are some very important medical research involves the use of live animals," he said.
Gray seeks integrated curriculum

By Mathews M. Cherian

The concept of a science-based liberal education has emerged as the common theme of the discussions in the past year, President Paul E. Gray '54 wrote in the Annual Report of the President for 1986-87. Gray presented the report to the MIT Corporation on Sept. 2.

This concept recognizes and articulates MIT's tradition of education in science, mathematics and technology on the one hand, and the humanities, arts and social sciences on the other, he said.

Gray stressed that MIT's emphasis on the examination of the undergraduate education is a move toward a reform: since the core requirements are already in place, the current changes and discussions of the curriculum aim to incorporate more perspectives and approaches to learning into the undergraduate education.

Gray emphasized MIT's "commitment to educating the whole person, not solely the future professional." An important objective of the curriculum review is to give students a better understanding of the human context of technological progress, Gray said.

Within the context of general education, we need to establish a new relationship between the humanities, social sciences (including management) and the arts on one hand, and the sciences, engineering majors at MIT. In-...
More ships attacked in Persian Gulf
Officials in Bahrain say that an Iranian missile hit Kuwait's main oil loading terminal and set a Liberian-flagged ship on fire. Nearby US-flagged ships were apparently unhurt. There is speculation that the missile used was a Chinese "silkworm" missile which has not been previously used against ships in the gulf.

Airliner crashes in Alps
No information is known on the fate of 37 people aboard an Italian jetliner that crashed in the foothills of the Alps. Officials confirmed that the jet went down during a heavy rainstorm north of Milan, but the exact crash site was not determined. The plane was on its way to Cologne, West Germany.

Nobel prizes given out
Besides MIT's Susumu Tonegawa being awarded the Nobel prize for medicine and physiology, the Nobel committee announced the winners of the prizes in chemistry and physics. Frenchman Jean-Marie Lehn and Americans Charles Pedersen SM '27 and Donald Cram were awarded the prize in chemistry for their work in the development of synthetic molecules. Two Swiss scientists - K. Alex Müller and J. Georg Bednorz - won the prize in physics for their revolutionary work in the field of superconducting materials.

Delay in superpowers summit
Even though Secretary of State George Shultz PhD '49 remains optimistic, he warned yesterday that unless an intermediate range missile agreement is signed soon, President Reagan and Soviet leader Gorbachev should delay a superpowers summit. Shultz will be in Moscow later this month, and it is expected that at that time he will nail down a precise date for the Washington meeting.

Pilots testify against Eastern
A pair of Eastern Airlines pilots said that the carrier has repeatedly forced its pilots to fly unsafe planes. They told a Senate committee that pressure may have arisen when Eastern management tried to cut costs and increase profits. An Eastern official has denied these charges.

Blast in San Francisco Chinatown
A propane gas leak caused a huge explosion in a restaurant in San Francisco's Chinatown. Over 25 people were injured when glass and debris showered the sidewalk after the lunchtime explosion.

Texas girl trapped in well
There had been little progress by last night in trying to save 18-month old Jessica McClure after she fell into an abandoned backyard well Wednesday morning. She fell 22 feet into the shaft and the only way rescuers have been able to get closer to the girl has been by drilling through the solid rock.

Victories in cancer fight
The American College of Surgeons has announced that the number of men dying from testicle cancer has fallen dramatically in the past few years due to advances in therapy. A dimmer outlook was given however for another cancer that afflicts men, namely prostate cancer. Approximately 90,000 individuals are afflicted by this malady every year. This number is about twenty times the number of cases of testicle cancer.

New England income among best
The US Commerce Department announced yesterday that the New England states have enjoyed the most pronounced income growth of any region in the country during the current economic expansion. High-tech industries were cited as the main contributors in the 46.5 percent expansion since 1982. Among the worst regions were the Rockies and the southeast experiencing income increases of 27 and 28 percent respectively. The small growth was attributed to falling energy prices in the area.

Weather
Kind of Quiet
With the jet stream to our north and west, weather in New England will be rather quiet the next couple of days. With the exception of late Saturday and early Sunday, skies should be mostly sunny this weekend.

FRIDAY: Mostly sunny. Winds becoming northeasterly during the afternoon. Highs around 60° along the coast and in the 60's inland. Saturday: Clear and cool, lows around 40°. Sunday: Partly cloudy and a bit milder. Highs 60-65°, winds southwest 5-15 mph.

The UA CONVENIENCE STORE

The UA is looking for a Manager, Assistant Manager, and student workers to staff the new convenience store opening next month in the Student Center.
opinion

Theft of uniform was harassment

(Editors' note: the Tech received a copy of the following letter.)

Dear Criminal,

It was Wednesday afternoon when I finally discovered what you had done. I went to my locker at Alumni Pool and found that you had removed my lock, stolen a few items, and left the door wide open. You stole my Air Force ROTC uniform. You left my shoes, T-shirt, and swimming trunks behind.

If you stole the uniform because you are desperately in need of clothing, then I'm glad I was able to help you. You're afraid the uniform isn't very comfortable, though. I only caution you to remove the nametag. After all, the uniform isn't really mine; it belongs to the government, and by stealing it you have committed a federal offense.

If, on the other hand, you stole my uniform to show your disapproval of the military, I cannot be as compassionate. I am sad when I realize that neither this letter, nor any other reasonable argument, will dissuade your views. Your attitude towards the military is as narrow and short-sighted as the very attitude you criticize in others.

In my opinion, a half year at MIT, I have witnessed some very interesting forms of discrimination. A homosexual student was harassed when someone slipped burning slips of paper into his mailbox. Women have been understandably offended by radio posters. My situation is no different. Perhaps, in my mind, is it. But to many reasonable people you have acted wrong and harmed the cause you are supporting. Did you ever ask me what I thought about the Air Force? Have you ever seriously thought of taking the day I signed the ROTC agreement? Somehow, I doubt it. If you, or anyone else applying or thinking to do so, feel this letter, feels that ROTC does not make moral or spiritual decisions, you harbor strong feelings against the people who have many effective and legal ways to express your views. However, I cannot change government policy. All you have done is made me pay for a new uniform. Write to your Congress man or participate in campus discussion groups. Leave me alone.

One final note, Criminal. In June I will be commissioned as an Air Force officer. My duty from that point onward will be to protect your rights and freedoms. I may die in the process, but I will not turn away from my responsibility. I hope that you, too, will not turn away.

Mark E. McDowell '88

Saeger insulted American Catholics

To the Editor:

I do not know what impelled E. J. Saeger G."Work defeat hurts everyone," Oct. 6.] to compare American Catholics' opinions about the Pope's teachings to Americans' attitudes about the Constitution, but I believe the analogy to be totally inappropriately.

I take exception to Saeger's statement that one is not truly Catholic unless one accepts all the teachings of the Pope, that one who opposes some teachings is not Catholic unless one accepts all of the Pope's teachings. I do not believe that God means for us individually to accept human teachings, even if they come from a church leader.

We can and should question all and reject all doctrines. It is unrealistic to expect the Church to change its doctrines overnight due to public pressure. It is not unrealistic for Catholics to use their minds regarding these teachings.

The Pope is a flesh and blood human being, a politician, and a representative of a particular faith. He is not God and does not speak directly through the Pope. The Pope is the head of the Catholic Church on earth; he is our spiritual leader. But he is not above the Church — he is part of it.

I ask you, Mr. Saeger: What honor do you give to the Pope and the teachings of the Pope, or do you consider the Pope to be...less holy than the Pope?...Mary Condello '89

UA accepts resignation of new store manager

To the Editor:

The Undergraduate Associates Council voted in its last meeting on Wednesday, Oct. 14, to approve the details of operation of the UA Convenience Store as proposed by the UA Executive Board. In approving this proposal, the council also approved the appointment of Jose A. Gonzalez '89 as the store manager.

It is with sadness and indignation that the UA Executive Board accepts Jose's resignation, effective Nov. 14. He will work until then in the interest of opening the store as soon as possible and to enable the UA to find a replacement. His resignation is wholly due to the fact of his appointment being called nepotism. Jose feels that it is impossible to work effectively at a manager under these circumstances.

When he was presented last month with an opportunity to open a store, finding a person who could take on the responsibility of managing was vital. To take advantage of this opportunity, the UA needed to respond quickly.

A number of seniors was considered by the acting members of the Executive Board; however, because of the committee's breadth of experience in such a job and the time constraints placed on the UA, the field quickly narrowed. After being interviewed, Jose was selected.

It is disappointing that such a willing and competent person, chosen by a legitimate process, feels forced to resign. We think his efforts to bring a convenient store to this campus should be rewarded.

The UA Council Executive Board

Alan Davidson '89

Howard Eisen '88

Katie Hays '88

Thomas Knight '90

Manuel Rodriguez '89

Vijay Vaitheesvaran '90

feedback

The Bork (bark) v. 1. To smash violently. 2. To strike with barked sound on the head.

Mark K. Blackstone '89

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Boston regionalism has not changed for years

To the Editor:

Michael J. Garrison’s column (“Boston seen through west coast eyes,” Sept. 4) is a reminder that some things change very little in 50 years. When I was an undergraduate my fraternity used to subscribe in the Boston Herald for the Daily cartoon and the local scores, but we took The New York Times to get the news. In those days, the Globe was a rag not worth the house room. But even the Times did not print the west coast football score (the edition I get Sunday morning still did not).

My New York friends at MIT used to laugh at the provincial Bostonians, and I laughed with them. Then I went to New York to work after graduation. There I discovered that New Yorkers thought that everything west of the Hudson was Indian country.

There are two stories about Bostonians I heard as a freshman that are now so old they may even be new. One was about the lady from Beacon Hill who had made a motor tour of the National Parks and the Pacific coast. When she returned a friend asked what route she had taken. “Via West Newton,” she said.

The other was about Harvard President Conant, then new in office. While still a Harvard professor he had been invited to be president of an institution in the Middle West. He refused on the grounds that he was recently married and his wife did not wish to live in Ohio. “Besides,” he added, “if she would live in Ohio, I wouldn’t have married her.”

Robert W. Blake ’41

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UA approves Student Center store


But Emerson attacked the exec board for not advertising the position to the entire student body. "You're making an ethical decision for the MIT community," she said. Emerson said it was wrong for the board to assume that students could not trust the manager.

Rodriguez countered that it would be his responsibility if money was lost; he also noted that an SCC member had stolen $30,000 from the organization seven years ago.

Use of coop questioned

Several students argued that the UA should consider other suppliers besides the Coop for the new store. The Coop had initiated talks with the UA about setting up the student store. Russell argued that other suppliers had better merchandise. She said University Stationery would provide supplies to the store at 10 percent below cost (about the same as the Coop) but the UA did not have a greater variety of goods than the Coop.

While the store will initially sell items at Coop prices, Rodriguez noted that the plan explicitly said that the store would discount goods if it was feasible. He added that the store could use other suppliers once it was in operation.

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Info Session: October 20
On-Campus Interviews
November 4

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Outside Looking In
By V. Michael Bove
Control Your Destiny

At this year's Northeast Computer Faire, thousands of New England's computer enthusiasts and business professionals are returning to take control of technology through:

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* TECH FAIR, a career advancement bazaar (Friday and Saturday only)

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Admission: $15-3 days; $9-one day. All-day pass includes conference program and TECHFAIR.

For further information, call Andrew Shapiro at (617) 449-6189, ext. 5077.

The 10th Northeast Computer Faire

The Control Key.
October 15-17, 1987 • World Trade Center, Boston

Hours: Thursday and Friday, 10-6; Saturday 10-5.
Alcohol policy faces enforcement problems

(Continued from page 1)

UA examines policy

The UA has established a new committee to examine the use of alcohol on campus. Committee Chairman Thomas P. Knight '90 said the committee was formed to prompt any new policy from being imposed on the student body. One of the committee's first goals is to conduct a student survey on the use of alcohol on campus. The administration cannot do this itself, because it would be a violation of privacy, Knight explained. Knight said the data from the survey alone would be very helpful and justify the committee's formations.

The committee will also grapple with the issues brought by the administration, Knight said. Knight has already spoken with O'Brien, Finneran, and Hennessy. He suggested that the committee might submit its own revisions to the current alcohol policy.

Court drops case against two arrested at R/O

By David Tarasewicz

Daniel Fox '90 and Elaine Johnston '90, who had been arrested Sep. 2 for their alleged involvement in the dropping of sodium off Longfellow bridge into the Charles River, had their charges dismissed last Friday upon payment of court costs.

Johnston said that both he and Fox had to pay $50, and in return would avoid a trial. He claimed that the MIT Legal Department arranged the plea bargain primarily to protect the identity of the East Campus students who executed the drop.

Both students had been charged with possession of fireworks and disorderly conduct. Johnston explained that the disorderly conduct charge mainly stemmed from the noise generated from the incident. All that remains now is to sign documents in November which will clear both students' records of these charges.

Tonegawa wins Nobel for work in immunology

(Continued from page 1)

One correspondence exists between genes and their protein products. In other words, a single gene is responsible for encoding a single protein product. The 48-year old Japanese citizen Tonegawa, who has been working in these areas. Sites of historic significance will be visited in the Jerusalem-Tel Aviv areas, the Galilee, and the Negev. Also included will be special political and military briefings on location, visits to kibbutzim and settlements, cultural experiences, and social events.

Highlights of the Seminar include:

Visit to the Dora Research Center
Meeting with Soviet Jewish scientists
Visit to a high technology moshav
Tour, meet with former Americans at major Israeli industries such as Tadiran Electric,
Elbit

Optional Internships:
Placements in Israeli industry or academic research during January. Internship costs are additional.

Trip Extensions:
Stay on your own. No additional program costs.

Applications:
Available at MIT Hillel, 312 Memorial Drive, 253-2982.
Application deadline is November 25.

Sponsored by MIT Hillel and the National B'nai B'rith foundation.
City of Cambridge proposes animal research ordinance

(Continued from page 11)

not all researchers are equally concerned about the well-being of animals. And we know that numerous instances of shocking abuse in laboratories have surfaced across this country," Agha continued.

At the hearing, Agha spoke at length in support of the ordinance and held up a number of enlarged photographs showing such cruelties as monkeys restrained and cats and other animals with wires and devices in their heads, according to a Boston Globe interview following the hearing. Agha said he knew of cases in Cambridge where animal abuse had occurred such as experiments involving eye manipulation where the eyelid of an animal would be sewn shut.

On the other hand, in a report revealed last spring, Cambridge Commission of Health and Hospitals Dr. Melvin Chalfen said that there was no evidence of cruelty to animals at the 13 institutions he checked. These included MIT, Harvard University, and Arthur D. Little, Inc.

The ordinance was heard before the Cambridge City Council Sept. 15. A Blue Ribbon Committee was appointed by the council to study the issue further before a vote would be taken on the proposed ordinance. This fact-finding committee - consisting of an animal researcher, a veterinarian - may take up to two months to complete its study, Zuck said.

The institute for the Study of Human Knowledge Fall Lecture Series

Computers, Work, and Society

Oct 19 Mitchell Kapor
MIT Sloan School of Management & Information Society

Oct 26 Shoshana Zuboff
Harvard Business School

Nov 2 Randall Davis
MIT Sloan School of Management & Artificial Intelligence: Present Realities

Nov 9 Joseph Weizenbaum
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The Status of Knowledge in the Information Society

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Monday evenings, 7:30 - 9:00 p.m.
Harvard University Science Center, Lecture Hall D
Admission: $5 at the door

For more information, or to make advance reservations, call 497-5217.

Co-sponsored by the Harvard University Center for Lifelong Learning.
The Advocates before entering politics. On camera, Babbit looks across as red, Stewart said. Dub- kakis' principal defeat, which he shares with other candidates, is that he appears lackluster. US Sen. Albert Gore (D-TN) and US Rep. Richard Gephardt (D-MO) have been changing their positions in recent months, Stewart said. Gore has come out in favor of a draft. Stewart, once a relative moderate, has moved steadily leftward in recent weeks. Once an opponent of abortion, Gore has now taken a pro-choice position and tried to pick up on more liberal issues like trade and farm subsidies. Gore is moving in the opposite direction. He is very liberal for a Southerner. The American Conservative Union ranked him only 9 on a 100 point scale. But in recent days, "he has been sounding sort of like George Wallace," Stewart said. By talking hawkish foreign policy positions and accusing his opponents of being "soft" on defense, Gore is trying to portray himself as the natural candidate of Southerners. US Sen. Paul Simon (D-IL) 'is as much as his-Russian, Harry Truman," Stewart said, citing Simon's folksy campaign manner. "He must go to bed in his suit every night to get them appropriately - the people think he and how times have become part of Si- mon's campaign." Simon is also the only candidate running as an out-and-out liberal. Stewart credited Simon with being politically savvy and a risk taker, but felt his liberalism might limit his appeal. Also, a high-spending race for Senate in 1984 may have burned out some delegates. People joke that former Ari- zona Gov. Bruce Babbitt is "Southwestern Dubkakis without the charisma.", Stewart noted. Babbit, like Dubkakis, is running on his managerial skills. Babbit, even more than Dubkakis, does not generate excitement. In order to appease his Arizona constituents, Babbit has taken many conservative positions - perhaps too conservative for him to win a Democratic nomination, Stewart said. If no clear-cut winner emerges from the Democratic primaries, Stewart believes New York Gov. Mario Cuomo or US Sen. Daniel Patrick Moynihan (D-NY) might be responsive to a deal.

The Republicans

Among the Republican contenders, Stewart felt that Pat Robertson's chances were the most nonexistent. The Republican nominating process has a lot of caucuses, as opposed to primaries. Caucus voters tend to attract only the most committed voters. Robertson's followers might be few in number, but they are dedicated eno- 
gough to turn out for him, Stewart said. Stewart felt Robertson would do particularly well in the South on Super Tuesday. There are many evangelicals and conserva- 
tives in the South, Stewart noted.

Vice President George Bush started political life as a moder- 
te, with strong ties to the New England Republican party - Bush's home state. As a 6-term Senator, since becoming vice president, however, Bush has managed to portray himself as a Rea- gressive moderate. Stewart was unsure whether voters would buy Bush's political conversion.

In an age where many candi- 
dates draw on real political roots, US Sen. Robert Dole (R-KA) has resources, Stewart said. Dole is the leader of what used to be called "Main Street Republicanism."

There are over 50,000 nuclear warheads deployed by both the Soviet Union and the United States. The United States is building 3 more nuclear warheads a day. Just 200 of the existing warheads can destroy every city in the world with a population of 100,000 or more.

ISN'T IT TIME YOU HELPED TO STOP THIS? JOIN US!

STOP THE NEW BOMBMAKING MARCH AND RALLY

Saturday, October 24
11 am-3 pm
Electric Boat Shipyard
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Cracker & Muffins included
Dr. Michio Kaku, Brigadier General Mücke, & BASH
Interpreted for the hearing impaired

STOP THE FIRST STRIKE TRIDENT II/D-5 SHUTDOWN/BLOCKADE

Monday, October 26
6 am-9 am
Electric Boat Shipyard
Groton, CT

Nonviolence training required
Vigil for those seeking disarmament

Buses for the March and Rally will leave Boston at 9 am on Saturday, October 24. They will return to Boston by 5:30 pm on Saturday evening. Bus tickets are $12.00.

For more information, call Boston Mobilization for Survival at 354-0088.
“Mozart gives us a lot of hope,” so does the Pro Arte

**PRO ARTE**
Conducted by Larry Hill
Leslie Amper and Lynn Chang, soloists.

**Menuetto.**

By JONATHAN RICHMOND

**“Mozart gives us a lot of hope,” declared conductor Larry Hill, after receiving a proclamaton signed by Governor Michael Dukakis naming Oct. 10 & 11 “Pro Arte Chamber Orchestra Weekend.” It was Pro Arte’s 10th birthday and there was much reason to celebrate.

Pro Arte does not play in a vacuum: it cares about who has access to its spiritually-fulfilling product. Where most other orchestras see audiences in largely financial terms, Pro Arte reserves some of the best seats in its house and gives them free to the elderly and handicapped. It actively seeks out those who might be in need of a little extra joy. Helps transport them to the performance and — through its music — then transports one and all to a state of pure delight.

The evening’s “Mozart” concert began with Mozart’s Symphony No. 29, K. 168. There was magic in every silklen phrase, a lightness and vitality that was totally captivating. The opening Allegro moderato was played with an exuberance that seemed to spiral ever higher.

Repeats gave particular pleasure; each time an earlier theme came back, it returned not merely as a restatement of old material, but several notches higher on a large scale. The weaving of color and texture, the contrast of bright passages between violin and orchestra, the feathery grace of the woodwind section — all were projected with perfection.

The last movement — over- flowing with party spirit — left everyone smiling.

The evening’s “new work” was William Kraft’s (K. 467). It was played with an exuberance that was even more joyful, and with a lightness and vitality that was to- der into the extramusical world.

**I N MOZART’S PIANO CONCERTOS,**

consists of a sadistically soft tympani solo — intriguing because of the seeming contradiction of having percussion play sotto voce. Jeffrey Fisher played it with aplomb.

Leslie Amper played piano solo, stressing the percussive qualities of her instrument. Lynn Chang’s violin provided a tense legato, creating several measures of harsh lyric beauty. The cross currents among and between soloists and the orchestra kept the audience’s attention.

The performance of K. 466) is often bright, the middle movement deeply reflective, and the conclusion bittersweet, perhaps. Are they innocent endings? Well, a certain amount of credit must go to the Pro Arte for their interpretation, which was truly effective. The Adagio was played with a profound, almost hyp- notic quality. The orchestra kept the audience’s attention.

The opening was alert, sweet as well. Outstanding among lovely woodwinds, a brass flared particularly assiduously, vying for our attention. Then Amper entered, crypli, commanding, but also humorously. Her strings provided the subtly warm hues of an intimate room, gently illuminating the nooks of the rebellious solo part. Amper’s cadence was especially well studied, firm, exploratory and full of interest.

Dr. Eric Block of the women’s hospital in Halsted, Sweden, makes medicinal use of K. 467, playing it to expectant mothers during childbirth: the relaxed atmosphere in the labor room is said to make birth less painful and dangerous.

The infant mortality rate at Halsted is far below the average at other clinics.

Wolfgang Hildebrandt speculates in his biography of Mozart that it must be the Andante that is played, with its virtually uninterrupted sostenuto beneath the melody, it is a movement with no significant rhetorical contrasts. One might add that the movement makes not only a structurally-smooth metaphor for uncomplicated childbirth, but on a psychological plane, its intense melancholia is essentially comforting. Mozart at his most troubled is the best seats in its house and gives them free to the elderly and handicapped. It actively seeks out those who might be in need of a little extra joy.

The Pro Arte Chamber Orchestra, conducted by David Hoose.

A world premiere by Steven Mackey is also on the program, as is Haydn’s Symphony No. 86. Wonderful music; home-grown talent. Sanders Theatre. October 25, 3pm. **MIT price:** $6 reduced to $4.

**Go hear Gloria Raymond of the MIT Medical Department**

**SINFONOVA**

Mostly Bach

Sinfonova is a chamber orchestra of extraordinary talent and versatility. Their first concert of the season will include both Bach’s *Concerto for two violins in D minor*, BWV 1043 and the *Concerto for two keyboards in C*, BWV 1061. The beautiful *Bachianas Brasileiras* No. 9 is also on offer. Hear Sinfonova once and you’ll want to go to the whole season. Jordan Hall. October 31, 8pm. **MIT prices:** $13.95 tickets for $6, $8.95 tickets for $4. **Tickets are on sale at the Technology Community Association, 820-450 in the Student Center. Office hours posted on the door. Call 34-4853 for further information.**

The Tech Performing Arts Series, a service for the entire MIT community, from *The Tech*, MIT’s student newspaper, in conjunction with the Technology Community Association, MIT’s student community service organization.
SOMEONE TO WATCH OVER ME

Directed by Ridley Scott.

Starring Tim Berenger and Mimi Rogers.

By RICARDO RODRIGUEZ

RIDLEY SCOTT'S LATEST FILM,
Someone to Watch Over Me, represents his first excursion into movies set in the contemporary world. But Scott, usually known for his action visual style, seems to have left the cinematography for this film to someone else. Despite the fact that the movie is set in New York, which is overflowing with visual opportunities, Scott keeps the action conspicuously isolated to the indoors. The only hints of the superb cinematography for this film to some extend accent on visual style, seems to have left back to display in Scott's Blade Runner stature at his home, begins to check the place out. The sheer luxury in which the woman lives is overwhelming: woods, spacious, well-stocked kitchens, marble bathrooms, and more. Completely overtaken by such opulence, the detective turns around and, almost as if speaking directly to the audience, expressly expresses his disbelief.

This film is recommended for audiences who suffer from extreme boredom.

Mozart and Hill's way of cementing hope in place and vanquishing fear

(Continued from page 14)

also at his most soothing.

Amper's performance of the Andante was not technically flawless. She stumbled unsteadily in a number of places, and was over-insistent in others. There was, none-the-less, a magnetic urgency to her message, which perhaps is what makes her sparring partners in the world, so compelling. Hill's ensemble was gossamer smooth, open, and colorful. Woodwinds added special touches of pathos, while voices added warmth and support. Boston matronly unite take note.

The Allegro vivace assai brought us back from the world of contemplation with a spirited conclusion. This was no mere return to the atmosphere of the first movement. Having traversed the depths of the Andante, the final movement was an occasion for elation. Mozart and Hill's way of cementing hope in place and vanquishing fear. It must have meant a lot to Mr. Aris's special audience.

The concert ended with Mozart's Symphony No. 25, K. 188. There were passages of beauty scattered through the performance, but it was too overall heavy a reading and too laid back for my taste: I'm personally drawn to the adversial tone of Christopher Hogwood's reading with the Academy of Ancient Music. Warmth in the strings was at the cost of coherence; Hill's version would have benefited from greater clarity. It is not easy to get both depth and clarity from a string section. Pre Aris were guilty of the former, quality, and that is what makes their performances so endearing. They could.

Lynn Chang

The Tech Performing Arts Series presents...

ORFEO

Boston Camerata perform Monteverdi opera

Jon Humphrey sings the title role in this concert version of Monteverdi's Orfeo. Jordan Hall, October 23, 8pm.

MIT price: $5

CHINESE PALACE

The Chinese Children's Palace of Hangzhou is a group of dancers, singers, musicians, and acrobats making their premiere US appearances. The performance weaves delicate Chinese classical music and ancient Chinese folk dance. Symphony Hall, October 28, 8pm.

MIT price: $5

HALLOWEEN!

Boston Musica Viva goes wild for this weird and wonderful event. To include H. K. Gruber's Frankenstein complete with mouth stren's, car horns, plastic hoses, baby rattles, paper bags and a merry-go-round, Henry Brant's Homage to the Marx Brothers, Donald Erb's The Devil's Quickstep and Kurt Schwetiska's Dracula's Haus — and Hofnammus.

You have been warned.

Jordan Hall, October 30, 7:30pm. MIT price: $5

ALEJANDRO RIVERA

Chilean guitarist Alejandro Rivera and "New Directions in Latin American Music" will perform original compositions by Rivera, as well as music from Argentina, Chile, Venezuela, Brazil, Peru, Ecuador and Puerto Rico.

Kresge Auditorium, MIT, November 1, 8pm.

MIT price: $5

COLLAGE

This is going to be intriguing... Collage is presenting the world premiere of "Cyberline" after Shakespeare, by Charles Fuscelli, conducted by the composer and featuring Jack Larson (who played Jimmy Olson in the original Superman series) as narrator, with tenor David Gordon. Shakespeare with a difference in Sanders Theatre, November 2, 8pm. MIT price: $5

Tickets are on sale at the Technology Community Association, W20-450 in the Student Center. Office hours posted on the door. Call x3-4885 for further information.

The Tech Performing Arts Series, a service for the entire MIT community, from The Tech, MIT's student newspaper, in conjunction with the Technology Community Association, MIT's student community service organization.
FRIDAY, OCTOBER 16, 1987

ON THE TOWN

Compiled by Peter Dunn

ARTS

Ongoing Theater

BERNIE THEATER, 246 Tremont Street, Boston. Phone: 491-8166. Thurs-Sun at 8 pm. Tickets: 510. The Alley Theater, 1253 Cambridge Street, Boston. Performances are Thurs 3 pm and Sat at 8 pm. Tickets: 255. The Charles Playhouse, 74 Warren Street, Boston. Performances are Tues-Sun at 8 pm, matinees Wed & Sun at 3 and 7:30 pm. Tickets: 64. The Federal Reserve Bank of South Massachusetts, 95 Federal Street, Boston. Performances are Thurs 3 pm and Sat at 8 pm. Tickets: 255. No admittance charge. Telephone: 577-5177.

**CRITIC'S CHOICE**

The Fruits, Arthur Miller's long running comic opera, is presented through October 25 at the Little Theatre, 8pm. Tickets $5 and 7pm. Telephone: 589-0100.

The Silver of Tiffany & Co., an exhibition of over 60 original paintings, drawings, and prints from France, Great Britain, and Italy, continues through November 29 at the Museum of Fine Arts, 465 Huntington Avenue, Boston. No admission charge. Telephone: 353-3345.

Terry Winters: Schema, an exhibition of 75 small watercolors, acrylics, and drawings, continues through November 29 at the MIT Museum (10-150), just off the infinite corridor. Gallery hours are weekdays 9am-9pm. Telephone: 589-0250 or 973-3454 or 973-3368.

An exhibition of more than 56 paintings, prints, drawings, and photographs from the Deanna and Harry Quastler Collection of Latin American Art, is on view through November 29 at the Museum of Science, Boston. Hours are Tues-Sun 9am-9pm. Telephone: 353-2134.

The Banfreto Musicale features the first performance of Beethoven's Ninth Symphony at Symphony Hall. Also presented October 17. Tickets: $3.550 general, $3.5 MEN members, seniors, and students. Telephone: 577-5177.

**CRITIC'S CHOICE**

*The Private Life of Henry VIII*, adapted from the play by Terence Rattigan, continues through November 23 at the Copley Showcase, 354 Congress Street, Boston. No admission charge. Telephone: 595-2300.


*An Officer and a Gentleman*, the musical set in a '60s navy training school and starring Robert Hays and Sam Waterston, continues through January 30 at the NIH, 450 Atlantic Avenue, Boston. Performances are Thurs 7:30 pm and Sun at 2 pm. Tickets: 51 and 59. Phone: 577-5177.

THE BRATTLE THEATRE CONTINUES ITS FRIDAY/ SATURDAY SERIES. *DEUX FONT QUATRE* (Two Plus Two Equals Four), an evening of French-Language comedies directed by Ki-stin Linkleater and starring Betsy Fuchs, Linda Mahoney, and Ron-... - - - I

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**On The Town**

Compiled by Peter Dunn

**Friday, Oct. 18**

**DANCE**

**FILM & VIDEO**

**THEATER**

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**MUSIC**

**EXHIBITS**

**CLASSICAL MUSIC**

**POPULAR MUSIC**

**UPCOMING EVENTS**

**ANNOUNCEMENTS**

**ARTS**

General Motors Corporation is pleased to announce that GM Scholarships for the 1987-1988 and 1988-1989 academic years have been awarded to the following students:

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<th>Name</th>
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<tr>
<td>John Allen</td>
<td>'89, Mechanical Engineering</td>
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<tr>
<td>John Krusac</td>
<td>'89, Civil Engineering</td>
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<tr>
<td>Cyvara Wu</td>
<td>'89, Electrical Engineering</td>
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John Krusac and Cyvara Wu will be sponsored by the Delco Products Division of General Motors. Delco Products, with its world headquarters in Dayton, Ohio, is a supplier to the international automotive industry, and provides products to every major automobile manufacturer in the world. From facilities in Europe, North America, South America, and Japan, Delco Products supplies air management systems, energy management systems, and wiper systems.

John Allen will be sponsored by the Fisher Guide Division of General Motors. Fisher Guide, headquartered in Warren, Michigan, is also a supplier of automotive components to the global automotive industry. Fisher Guide is a world leader in seat and door systems hardware, exterior trim hardware, lighting products, and energy management systems, with manufacturing facilities in North America and Europe.
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SAVE 20%-25%

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  - Experience in medical imaging or related fields.

- **Regional Clinical Scientists**
  - Individuals will work at our Clinical Science Center and on-site with our new research partners.

- **St. Staff Scientist**
  - An individual position in the area of data acquisition schemes and processing for NMR image reconstruction. The major focus is to develop data acquisition methods to reduce noise and fat.
  - Requires a comprehensive understanding of NMR data reconstruction and image processing.

- **St. Staff Physicist (Magnets)**
  - To assume project and technical leadership in our Math/Physics Group for the areas of gradient coil design, magnetic design, and interface with magnet vendors.

- **St. Staff Engineer**
  - Requires a strong background in computer science, electrical engineering, and mathematics.

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  - Experience in medical imaging or related fields.

- **Regional Clinical Scientists**
  - Individuals will work at our Clinical Science Center and on-site with our new research partners.

- **St. Staff Scientist**
  - An individual position in the area of data acquisition schemes and processing for NMR image reconstruction. The major focus is to develop data acquisition methods to reduce noise and fat.
  - Requires a comprehensive understanding of NMR data reconstruction and image processing.

- **St. Staff Physicist (Magnets)**
  - To assume project and technical leadership in our Math/Physics Group for the areas of gradient coil design, magnetic design, and interface with magnet vendors.

- **St. Staff Engineer**
  - Requires a strong background in computer science, electrical engineering, and mathematics.

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Tonegawa wins Nobel for work in immunology

(Continued from page 11)

...he body has against infectious disease, Summar's work provided the key to how that system functions. It can't be overstated how important that revelation was."

"I, and most of the scientific community, have been waiting for the Nobel committee to recognize what a publishing piece of work it was," he added.

Nancy Hopkins, professor of biology, described Tonegawa as "totally dedicated to his work." He is "very generous and a tremendously exciting scientist."

The 1987 Nobel Prize carries a $340,000 cash award.

Earlier this year, Tonegawa was named a co-recipient of the Albert Lasker Medical Research Award, which is considered second only to the Nobel prize.

The 1987 Nobel Prize carries a $50,000 for Distinguished Achievement in Cancer Research.

Tonegawa's Experiment

One of the greatest puzzles facing biologists in the 1970's was how the immune system could generate millions of different antibody molecules from a limited number of genes (a few hundred). Tonegawa's experiments showed that this diversity results from the possible combinations which can occur when developing cells "decide" which antibody to produce.

Antibodies, also called immunoglobulins, are made up of two identical "heavy" chains and two identical "light" chains. Each "heavy" chain is composed of four parts -- variable (V), joining (D), diversity (D) and constant (C) segments -- while the "light" chain contains all but the D segment. The DNA of all cells holds the information for producing a variety of each of these segments. Although the DNA holds information for tens of thousands of diverse antibody segments, only one of each may be included in the final antibody molecule (e.g. V3g5D1D2C).

Tonegawa showed that when an antibody-producing cell undergoes maturation, a DNA recombination takes place. The number of possible ways of combining segments equals the product of the number of each type i.e. there are over 300 possible V-region only one of each may be included in the final antibody (e.g. V3g5D1D2C).

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Listings

Student activities, administrative offices, academic departments and other groups — both on and off the MIT campus — can list meetings, activities, and other announcements in The Tech’s “Notices” section. Send notices of interest (typed and double spaced) via Internet mail to “News Notes, The Tech, room 24-484,” or via U.S. mail to “News Notes, The Tech, PO Box 29, MIT Branch, Cambridge, MA 02139.” Notices run on a space-available basis only; priority is given to official institution announcements and MIT student activities. The Tech reserves the right to edit all listings, and makes no endorsement of groups or activities listed.

Sunday, Oct. 18

“Wright’s Genesis and Descendants.” Three of the pioneers or activities listed makes no endorsement of groups and right to edit all listings, and volunteer activities will be featured. There will be a MIT Women’s League Open House in the Bush Room, 10-10:15, from 10 am to 3 pm. Displays illustrating the League’s interest groups and volunteer activities will be featured. Refreshments will be served. New and old members are all welcome.

Thursday, Oct. 22

“What is the Future For CAST’s : Is It Baypos or More?” is a semi-

FRIDAY, OCTOBER 16, 1987 The Tech PAGE 25

national talk from the first scientific reconnaissance to find Mi-

CRIMSON TRAVEL

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books

the hunting of the quark

the true story of modern physics

by michael riordan

the hunting of the quark is the story of the 20-year search for the quark — the particle inside the proton and neutron.

wed., oct. 21

philosopher jones m. langley, university of notre dame, will discuss distancing, theology and freedom: a new look at the galileo case. sponsored in association with the institute for philosophy and religion, school of nursing, auditorium, 635 commonswealth avenue, 8 pm.

wed., oct. 21

there will be a mit women’s league open house in the bush room, 10-10:15, from 10 am to 3 pm. displays illustrating the league’s interest groups and volunteer activities will be featured. refreshments will be served. new and old members are all welcome.

friday, oct. 23

“marine palaeontology — legends and fact” is the topic of a lecture to be given by bruce halstead, director of the international biologi
cal research institute, world life research institute, colton, california. the lecture is at 7:45 pm in the auditorium of the new england aquarium. free and open to the public.

friday, oct. 30

is there a real monster in the congo? is the topic of a lecture to be given by phil lobel, assistant scientist, woods hole oceanographic institution. sponsored by the mit museum. call 868-2600 for more information.

the cube question: rubik vs. kresse

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10-105, from 10 am to 3

philosophy and religion. school of tech

and old members are all wel-

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ted in association with the institu
tion with the institute for phi

tion of scientific reconnaissance to find a monster thought to be stalking the forests of the congo. the lecture is at 7:45 pm in the auditorium of the new england aquarium. free and open to the public.

sunday, oct. 18

“Whitewind’s Genesis and Descendants.” three of the pioneers who built the whitewind at mit — j.w. forrester, c.r. weiser and r.r. eventt — reflect on building the first vacuum tube, real time computer with an operational core memory, and upon research and development at the mit lincoln laboratories computer museum, museum wharf, 300 congress street, 2 pm.

thursday, oct. 22

“what is the future for cast’s: is it bypass or more?” is a semi-

THE HUNTING OF THE QUARK

THE TRUE STORY OF MODERN PHYSICS

MICHAEL RIORDAN

JAMES HOYTE,

\summary of environmental affairs, commonwealth of massachusetts

DONALD HARLEAN,

\head professor of engineering, department of engineering, mit

PETER SHIBLEY,

\chairman, conservancy fund foundation

monday, october 19, 4:30 pm, 9-159

united states congress: question and answer

united states congress:

played by dr. larry nichols at the mit museum. 7 pm. call 253-4422 for more information.

cleaning up boston harbor

james hoyte,

\summary of environmental affairs, commonwealth of massachusetts

donald harlean,

\head professor of engineering, department of engineering, mit

peter shibley,

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Merrill Lynch Capital Markets

will host an Informational Meeting for

MIT Seniors

to discuss the

Financial Analyst Program
Investment Banking Division
Corporate Finance Group

and

Debt and Equity Intern Program
Debt Financing Division
Global Broker/Dealer Group

on

Thursday, October 22, 1987
4:00 p.m.

Room 4-159
The Competitive Spirit: Columbus Day Weekend

October 10-13, 1987

Photos by
Kristine AuYeung
Lisette W. Lambregts
Kyle G. Peltonen
Mark D. Virtue
Rugby team shuts out Babson College, 10-0

By Brett Masters
MIT had a fully undergradu-
ate side in the Rugby League
for the first time last Saturday.
It turned out a magnificent day
on two counts. MIT defeated
Babson College 10-0 producing a
durable display of power and
skill.
The first of the two superb
tries came from a defensive move
where Curtis Barnes '89 broke
the opposition line, spread 80
yards before being pulled down
near the try line. The loose ball
was then cleverly scooped up by
Paolo Diaz '88 to produce a try
just short of half time.
MIT turned with the wind up
6-0 which is enough to demoral-
ise many a team. Babson how-
er fought tenaciously only to be
probably never would have hap-
pened.
(Editor's note: Brett Masters
'89 was captain for the under-
graduate side's game.)

MIT's sailing team finishes ninth in regatta

By Isako Hoshino
At the Hood Trophy Intersec-
tional Regatta, which took place
on Oct. 12-13, MIT placed ninth
out of 16 highly competitive
schools, most of which are na-
tionally ranked. The A divi-
sion was sailed by Dale Hilon
'88 and Isako Hoshino '89, and the B di-
vision was sailed by Dale Hin-
man '90 and Mike Leary '90.
This regatta helped MIT quali-
ify for the Atlantic Coast
Championships, which lead to
the Nationals.
At the Northern Series V, held
at MIT on Oct. 16, MIT placed
third out of 15 schools. The A di-
vision team, sailed by Drew
Freides '90 and Mike Leary '91,
placed fourth in the division. The
B division team, sailed by Kyle
Welch '90 and Dan Pless '89
placed third.
Also, at the Dartmouth Bowl
team race regatta held at Dart-
mouth on Oct. 11, MIT placed
second. The team racers were
Drew Freides '90, Mike Leary
'91, Doug Sabin '89, Rachel Ran-
tcher '91, Kyle Welch '90 and Dan Pless '90.
This coming weekend, MIT
will defend the New England
Shool Championship (larger 4-
man boat) at the US Coast
Guard Academy in New London,
Connecticut, and MIT dinghy
sailors will be competing for the
Hoyt Trophy Intersecational at
Brown University.
(Editor's note: Isako Hoshino
'89 is a member of the MIT sail-
ing team.)