

No Tech Talk

Next week's issue of Tech Talk will be the last until January 8, 1986. The Institute Calendar next week will cover the period from December 18-January 12 and the deadline will be as usual, at noon Friday, Dec. 13. The deadline for listings in the January 8 paper will be Friday, Jan. 3, at noon.

IAP listings

The IAP Timetable will be published in Tech Talk as an adjunct to the Institute Calendar. All activities included in the IAP Guide will automatically be listed in the Timetable.

Organizers of new or changed activities should fill out a form in the IAP Office, Rm 7-108, so the information in the Timetable will be accurate. Deadlines for submitting Timetable listings are today (Wednesday, Dec. 11) and Wednesday, Jan. 8. Tech Talk will not accept IAP listings.

Party reminders

President and Mrs. Gray's Holiday Open House will take place today (Wednesday, Dec. 11) 4:30-6:30pm at the President's House, 111 Memorial Drive. All members of the community, including children at least eight years old are invited.

The Institute-wide Holiday Party will be held Thursday, Dec. 12, at noon in the Rogers Lobby. Hot cider and cookies will be served by the MIT Women's League and festive music will be provided by Shirley Brown and the Concord Bell Ringers.

Any comments?

Crimson Travel Service, Heritage Travel, Inc., Raymond & Whitcomb Company and Topaz Travel were designated as Institute approved travel agencies by the Ad Hoc Travel Committee in February 1984.

The Travel Committee is now reviewing the performance of these agencies and would appreciate comments from the community relative to their performance. Travelers using non-approved agencies are also invited to submit comments on those agencies.

Please send your comments to Joseph R. Cullinan, assistant to the comptroller, Rm E19-556.

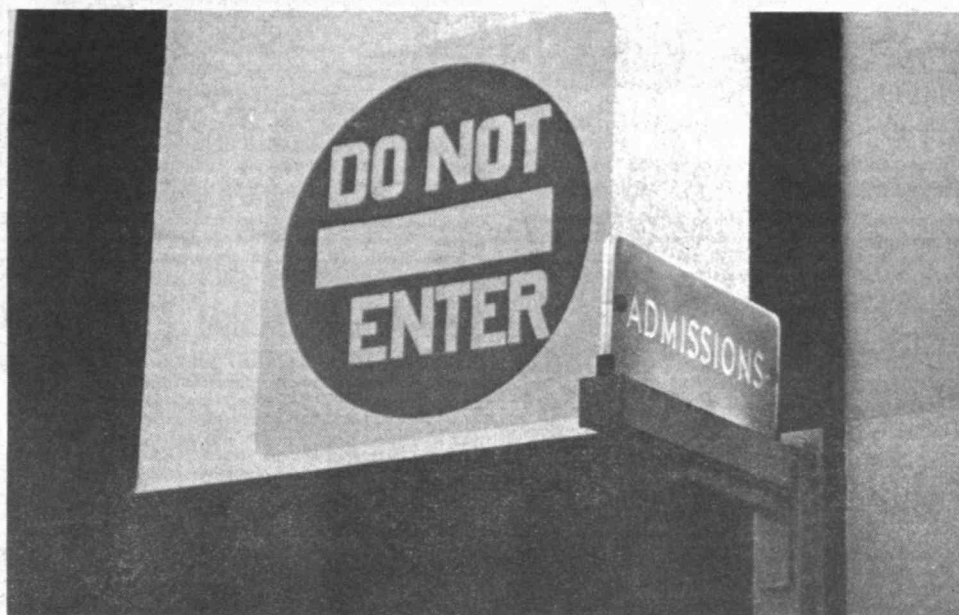
Video fiesta

Films made by students in the Film/Video section of the Media Lab will be screened this Friday (Dec. 13) at 7pm in the classroom opposite the Bartos Film Theatre on the ground floor of the Weisner Building (E15). Everyone is invited. These classes are taught by Professor of Cinema Richard Leacock and filmmaker Gloriana Davenport, lecturer in the Department of Architecture.

Lights & music

How can light become sound and then become light again? Two installations by graduate students at the Center for Advanced Visual Studies (W11) explore possibilities arising from that question. An installation by George Nemrica is in its final day today (Wednesday, Dec. 11), with an installation by Shawn Brixey scheduled to open tomorrow (Dec. 12). Brixey will use lasers and solar panels to create music and musical instruments. Booth artists are in the Masters of Science in Visual Studies (MsVs) program and these pieces were done for one of the advanced classes taught by Otto Piene, Professor of Visual Design and director of the Center. The community is invited to see these unusual works, in the exhibition room on the first floor of the CAVS building.

Infinite corridor becomes 'Toolpike' for a day



At the Admissions Office, a prankster's admonition.

—Photos by Calvin Campbell

By CHARLES H. BALL
Staff Writer

The MIT Hack lives on. MITers using the infinite corridor at 77 Massachusetts Avenue Monday morning found it transformed into a prankster's version of the Massachusetts Turnpike—complete with double-striped yellow line down its center, appropriate signs and, of course, an automobile in its own parking space in Lobby 10.

A sign at the Lobby 7 entrance to the corridor proclaimed it "Massachusetts Toolpike—Toll \$16,000," a not-so-subtle reference to the cost of attending the Institute.

A spokesman for the hackers, Thomas H. Adams, a pseudonym derived from the name of the group that perpetrated the prank, the Technology Hackers Association, declared the project to be all in good fun.

In a call to Tech Talk, he termed it an effort to relieve the "very high pressure" of the final week of classes and to "lighten the atmosphere" before students get down to the serious business of studying for finals.

"A lot of people seemed to enjoy it," he said. MIT Police Chief James Olivieri, who apparently can appreciate a well-executed, non-destructive hack when he sees one, agreed, saying, "I saw a lot of smiles on people's faces this morning, and I think that's good."

The THA spokesman stressed that the group insists its hacks "not do any damage whatsoever to any Institute property."

The spokesman said that 30 to 40 students were in on the "design and execution" of the prank and that about 20 actually carried it out starting at 4:15 Monday morning. The work, some of which was observed but not interrupted by Campus Police, was completed by 6.

He said the "Toolpike" grew from the idea that a double-line down the infinite corridor might encourage people to follow traffic rules in the often crowded space. (In fact, many people were staying to the right of the line throughout Monday.)

The spokesman made it clear that placing the auto in Lobby 10 was "the icing on the cake." He explained, "We asked ourselves, 'When is a highway not a highway?' And so it

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Electronic piano to make debut

By CHINA ALTMAN
Staff Writer

The MIT community is invited to demonstrations Friday, Dec. 13, of the Bosendorfer Recording Piano, hosted by the Music Cognition Group of the Artificial Intelligence Laboratory.

Students interested in possible research opportunities involving the piano are encouraged to attend the 3:15 demonstration. The second demonstration will be at 5:15. Both are in the AI/LCS Reading Room on the ground floor of NE43 at 545 Technology Square.

These demonstrations will show how recordings are made and edited using the piano, and will also demonstrate the piano playing a variety of musical material.

In 1983 the Music Cognition Group began a joint project with the Bosendorfer Piano firm of Vienna to develop a state-of-the-art recording piano using digital storage media. Dr. Wayne Stahnke of the Caltech Jet Propulsion Laboratory, in collaboration with Kimball International, Bosendorfer's parent corporation, completed the electromechanical design of the instrument in the fall of 1984. A manufacturing prototype was delivered to MIT in February this year.

The 9 1/2-foot recording instrument owned by the Music Cognition Group is a new Bosendorfer Model 290 Imperial Concert Grand, valued at approximately \$100,000. It has been outfitted with optoelectronic sensors and precision solenoids, giving it the capability to record and reproduce keyboard performances with uncompromising fidelity.

The Music Cognition Group presently serves as Bosendorfer's principal beta test site for the Recording Piano, advising Bosendorfer on issues of software engineering, packaging, user interface design and calibration methods. The piano presently communicates with a Symbolics Lisp Machine located on the 7th floor of 545 Tech Square.

When the first phase of software development is complete, the piano will transmit and receive performance information in a standard serial format, allowing it to be used with inexpensive personal computers.

AI's Music Cognition Group investigates the cognitive foundations of musical behavior using the methods of Artificial Intelligence. The principal objective is to extract and represent expert knowledge about music by building computational models of the cognitive processes involved in composing, performing, and listening.

1986 holiday schedule

Following are the recognized Institute holidays and the days on which they fall and will be observed.

- New Year's Day—January 1—Wednesday, Jan. 1
- Martin Luther King Day—third Monday in January—Jan. 20
- Washington's Birthday—third Monday in February—Feb. 17
- Patriots' Day—third Monday in April—April 21
- Memorial Day—last Monday in May—May 26
- Independence Day—July 4—Friday, July 4
- Labor Day—first Monday in September—Sept. 1
- Columbus Day—second Monday in October—Oct. 13
- Veterans' Day—November 11—Tuesday, Nov. 11
- Thanksgiving Day—fourth Thursday in November—Nov. 27
- Christmas Day—December 25—Thursday, Dec. 25

A holiday that falls on Sunday is observed the following Monday. A holiday that falls on Saturday is observed the previous Friday unless the Institute designates another day as the holiday.

IAP to feature nuclear safety to Beethoven's Ninth

By MARYGLENN VINCENS
IAP Editor

From French Grand Opera and chemical crystallography to effective scholarly writing and rainbow holography, Independent Activities Period continues to offer a rich, diverse program appealing to every taste in learning.

IAP '86 will run from January 6 through 29. The IAP Guide itself has a new offering: an alphabetic list of activity titles and their numbers. It begins on page 35.

Since it is difficult to give a fair overview of a program offering almost 700 activities, what follows is merely a sample.

IAP turns its attention to the heavens this year with the Voyager encounter with the

planet Uranus. In the activity, "In Celebration of Pioneers and Voyagers: To Jupiter, Saturn, Uranus, and Beyond" (see activity No. 1 in the IAP Guide), William Ward will examine the workings of the spacecrafts to which "every area of human experience stands in intimate relationship?"

As a result of a joint effort by Educational Video Productions and The Center for Space Research, the MIT community will be able to view Uranus as Voyager makes its closest pass by the planet on January 24. Live slow-scan images will be telecommunicated to MIT via the Jet Propulsion Laboratory in California (activity No. 1000), and live press conferences from the JPL during the encounter will be

televised over the MIT cable (No. 863). Also, Ralph McNutt and James Belcher will present a history of the Pioneer/Voyager mission (No. 862).

Institute Professor Philip Morrison will share his experience as "An American Physicist In Japan in 1945 and 1969" (No. 800), with the hope of creating understanding on the impact of the atomic bomb as well as providing insight into the complex relationship between the United States and Japan.

The Committee on an Integrated Curriculum will hold an open hearing on a proposed curriculum that would merge scientific/technical education with the liberal arts to provide

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"Toolpike" sign signifies what lies beyond the doorway at 77 Massachusetts Avenue.

Brown dedication: a time for recollection



Graduate student Denice Denton presents Gordon Brown with his personal "bunny suit" during the Gordon Stanley Brown Building dedication ceremonies on Friday, Dec. 6. The suits must be worn in the ultra-clean environment maintained in some of the chip-making labs in the building.

The dedication on Friday, Dec. 6, of the Gordon Stanley Brown Building in honor of the former Dean of Engineering and head of the Department of Electrical Engineering was a colorful event with brilliant balloons, vivid VLSI T shirts and a stunning cake.

There were warm memories too. Professor Richard B. Adler, for example, recalled in his remarks that Dr. Brown and several faculty members in the department lived in the same Concord neighborhood. Their newspaper carrier was Dr. Brown's son and on Sundays, when the paper was heavy, Dr. Brown drove his son along the route—occasionally taking the opportunity to deliver departmental correspondence with the newspaper, Professor Adler recalled.

Perhaps the most colorful recollection was President Paul E. Gray's. He told of a last-minute change in plans that kept Professor David C. White from visiting the Birla Institute of Technology and Science in Rajasthan, India, in the early 1960s. Dr. Brown, who had established the Birla-MIT link, recruited Dr. Gray, then a faculty member in the department, and Robert P. Greene, an administrator in the Dean of Engineering's Office, to go instead. Dr. Gray and Mr. Greene arrived to find Birla's president puzzling over Gordon Brown's telegram, which read: "White can't come. Gray and Greene will arrive soon. Signed Brown."



Corporation Chairman David S. Saxon, Dr. and Mrs. Gordon S. Brown and President Paul E. Gray cut a striking cake upon which is reproduced a famous chart created several years ago by Dean Brown which illustrates his vision of how interdisciplinary research centers could energize education.

—Photos by Calvin Campbell

Decoration guidelines issued

The Safety Office has issued guidelines for the use of holiday decorations in all Institute buildings in order to assure a safe holiday season for the community.

Flammable decorations—including natural greens, straw, crepe paper, streamers and surface coverings on building interior finish are prohibited in places of public assembly and public and private school buildings under Massachusetts Fire Prevention Regulations. Also prohibited are flammable decorations in lobbies, student rooms, and assembly areas of residential buildings. Noncombustible decorations or those labeled as flameproofed are permitted.

All Christmas trees and decorative boughs must be artificial with an approved flame retardant label.

Only UL approved lights rated for use on artificial trees are to be used. Larger tree lights normally used on natural trees generate enough heat to melt plastic and ignite decorations.

Remote spotlights are recommended for use with metal trees to avoid an electrical shock hazard.

The use of Christmas cards, wrapping paper and streamers to decorate exit corridor walls is prohibited.

The use of Christmas lights, electric ornaments, and extension cords in corridors and over exit doors are prohibited.

Combustible materials should be kept at a safe distance or be shielded from sources of heat such as radiators, light bulbs, desk lamps, dryers and cigarettes.

Christmas trees are not allowed in passage-ways or aisles to exits.

The use of candles or any type of open flames for lighting, or decorative purposes is prohibited by the Cambridge Fire Department.

Fireplaces should only be used according to guidelines available from the Safety Office.

Treasurer's Office names three

Robert W. McQuillan, former MIT financial benefits officer, has been promoted to assistant treasurer for financial benefits, and Gregory B. Howland '83 has been appointed assistant to the treasurer, Glenn P. Strehle, treasurer, has announced.

A second appointment, that of Carmen Santos as senior staff accountant in the Real Estate Office of the Treasurer's Office, was announced by Philip A. Trussell, director of Real Estate and associate treasurer.

As assistant treasurer for financial benefits, Mr. McQuillan supervises the financial management of the Institute's retirement plans for staff and employees. He is also assistant clerk and assistant treasurer of both plans. He participates in the financial, legal and actuarial activities with the Benefits Office and Benefits Accounting.

Mr. McQuillan joined MIT in 1957 as assistant auditor. From 1960-1973, he was an accounting officer for benefits and since 1973 he has been a financial benefits officer assisting the associate treasurer in the financial administration of the Institute's employee benefit program. In addition, he assisted the Personnel Office in negotiations with union representatives during employee benefit program discussions.

Before he came to MIT, he was an assistant to the controller in the International Shoe Machine Corporation from 1954-57. He was also an accountant for the Bissell Leather Company from 1947-51 and from 1953-54.

Mr. McQuillan served in the US Army, 3rd Logistical Command, from 1951-53.

He received a diploma at Burdett Business College in 1947. He also took the United States Army Basic Finance Procedures Course.

Mr. Howland is working with the treasurer on the analysis of the Institute's investments and investment portfolios. His duties include the development of computer systems to perform this analysis.

He received the SB degree in architectural design from MIT in 1983. While a student, he organized the Black Architectural Students Association in 1978. He also ran track and played on the Harvard University rugby team.

After graduation, he began his own firm with Terry Meehan, M. Architecture '83, where he supervised renovation of several row houses in Boston. He

directed all phases of acquiring, developing and managing property. He was also employed by Anderson, Nottter, Finegold, a developer-architect firm in Boston in 1980 and McAllister, Schwartz contractors, Washington, D.C., in 1979.

Ms. Santos is charged with investment real estate accounting and mortgages administered by the Real Estate Office.

A resident of Dedham, Ms. Santos' most recent post at Brandeis University included reviewing bank investment reports while monitoring the sale and purchase of investments in stocks, real estate and mortgages. At Sears, Roebuck and Company, she spent 13 years in accounting and auditing. Her duties included introducing, implementing and training Eastern region controllers and their staffs in the procedures used to reorganize and standardize the obtaining of sales, inventory and payroll information. She also analyzed, consolidated, implemented and redefined job descriptions and trained the international division in interpretation and administration of accounting functions related to the computerization of customer account receivables.

Ms. Santos received the BA degree in mathematics at Southeastern Massachusetts University in 1972. She is fluent in Spanish and Portuguese.

Visiting artist plans 'Live scenario' event

Austrian artist Richard Kriesche, known for his experiments and collaborative efforts in film, video, site-specific installations, and publications, is spending six weeks in the reference gallery of MIT's List Visual Arts Center.

Using MIT as both a reference and resource, his explorations will focus on the relationship of new technologies to the social conditions which they both convey and create.

Since his arrival at MIT in November, Kriesche has met with more than 30 research scientists and engineers to discuss their work. The artist has visited advanced research laboratories including biomedical engineering (robotics), the Architecture Machine Group, the Artificial Intelligence Laboratories and the Experimental Music Studio, as part of his ongoing investigation of technological and cultural systems.

On Friday, Dec. 13, at 7pm, Mr. Kriesche will present what he calls a "Live Scenario," an event in which the artist will create a "drawing" within an installation which incorporates both high and low technology. Although reticent to discuss the piece before it occurs he has said: "Any action is a political one—the drawing in this live scenario is a political statement."

The installation and video and photographs documenting the live scenario will remain on view until December 29. The Reference Gallery frequently functions as a hybrid of a laboratory, studio, and staging area, to make accessible the usually private process by which a work of art is realized.

Kriesche's residency in The Reference Gallery has been organized by the MIT Committee on the Visual Arts, and is funded by the Massachusetts Council on the Arts and Humanities. —Dana Friis-Hansen, CVA

Hayden exhibit to explore nudity

The MIT Committee on the Visual Arts will present "Nude, Naked, Stripped" in the Hayden Gallery of MIT's List Visual Arts Center, December 13-February 2. This exhibit of contemporary painting, sculpture, and photography by 18 artists explores varying personal, social, cultural, and political attitudes toward the body without clothing.

Students and all members of the MIT community are invited to a preview and reception on Friday, Dec. 13, 6-8pm when many of the artists will be present.

While the exhibition draws together artists with greatly divergent backgrounds and approaches, there is a shared intensity of observation and depth of introspection. Artists featured in the exhibition: Mary Ahrendt, Luis Cruz Azaceta, Louise Bourgeois, Chuck Close, Robert Colescott, John Coplans, Cheri Eisenberg, Peter Hujar, Dennis Kardon, Deborah Kravitz, Greer Lankton, Robert Mapplethorpe, Alice Neel, Francois Robert, Lucas Samaras, Suzanne C. Shepherd, Nancy Spero, and TODT.

In the exhibition's catalogue, Dana Friis-Hansen, assistant curator for the Committee on the Visual Arts writes: "Throughout the history of western art, the idealized nude has carried the shared convictions of truth and beauty. Contemporary society, however, constitutes a more problematic climate for the body without clothes, full of conflicting messages indicating what one should or should not do, see, feel, want, take pleasure in or avoid.

"Rather than survey contemporary art which features the nude, this exhibition focuses on the range of emotionally charged states suggested by the adjectives which form the title. Instead of categories under which to classify art, or a narrative progression, the title indicates the broad scope of responses attached to the consciousness of being without clothes, as well as the artistic, cultural, and psychological issues which surround the depiction of the naked human form."

TODT, a collaborative group of four artists who wish to remain anonymous, has been commissioned to create a room-size installation addressing the exhibition's theme. Mr. Friis-Hansen says of their work: "TODT creates a new futurism where the body and machine become one. Architectural space is subtly manipulated to focus the viewer's attention on an array of pseudo-machines and ambiguous apparatuses, crafted from elements from scientific laboratories, juxtaposed with familiar household objects to create a startling, and sometimes unsettling experience." Support for this project has been provided by the Council for the Arts at MIT.

A series of special educational programs has been organized to explore the personal, cultural, and political issues relating to the body without clothes and how it is depicted. A list of these informal discussions, all free and open to the public, will be published in a subsequent issue of Tech Talk.

An 80-page illustrated catalogue has been published to accompany the exhibit, with statements by the artists and two essays. Free-lance cultural critic Carrie Rickey has written an essay on the body within contemporary society, entitled "Mapping Autogeography: Six Routes for Navigating the Body Politic." In his essay, Dana Friis-Hansen examines the work of each artist within personal, cultural, and political contexts.

The Hayden Gallery, located in the Wiesner Building, is open, free to all, weekdays 10am-4pm and weekends 1-5pm.

Trio to celebrate Beethoven's birthday

In honor of Beethoven's Birthday, MIT will present its annual concert of his works on Monday, December 16. Pianist Sally Pinkas and two members of the Lydian String Quartet will perform at this free concert at 8pm in Kresge Auditorium. The program will be: Sonata for Cello and Piano, Op. 5, No. 2 in G Minor; Piano Sonata, Op. 2, No. 3 in C Major; Trio, Op. 97, in B-flat Minor, *Archduke*.

Lydian String Quartet members Judith Eissenberg (violin) and Rhonda Rider (cello) both hold degrees from the Yale School of Music. Ms. Eissenberg was an artist-in-residence at the Fountainbleau School in France. Ms. Rider, the recipient of the 1980 Concert Artist Guild Award, frequently performs contemporary music.

Sally Pinkas, a former affiliated artist at MIT, is an assistant professor of music at Dartmouth College. Her training began at age ten in Israel where she composed and performed concert piano before travelling to the US to study music in 1976. Here she earned the BA degree from Brandeis University, a Master of Music degree from Indiana University and an Artist Diploma from New England Conservatory of Music. She has performed at the Marlboro, Tanglewood and Aspen music festivals and has made chamber appearances with the Lydian Quartet, the Cantata Singers, and the Cambridge Center Players.



After graduation, he began his own firm with Terry Meehan, M. Architecture '83, where he supervised renovation of several row houses in Boston. He

Orloff Award presented

Thomas R. Junk, a sophomore in physics from Homewood, Ill., has received the 1985 Matthew Joel Orloff UROP Award for outstanding ability and creativity in physics-related research.

He was nominated by Professor Irwin A. Pless of physics as a result of a research project carried out last summer in which Mr. Junk searched for "Anomalons" in the high energy physics data. The results of this research will be submitted for publication soon and Mr. Junk will be one of the principal authors.

The Orloff UROP Award was established by a gift from the family of Joel Matthew Orloff, a UROP participant and member of the Class of 1978.

Latham family establishes chair

The Latham Family Career Development Professorship has been established at MIT by a gift from Allen Latham Jr. and his wife, Ruth Nichols Latham. Mr. Latham and the four Latham children hold eight degrees from MIT among them.

Dr. Monty Krieger, associate professor of molecular genetics in the Department of Biology and Whitaker College of Health Sciences, Technology and Management, has been named the first Latham Family Career Development Professor. Dr. Krieger, honored recently by MIT for excellence in teaching, directs his research toward understanding how cells internalize physiologically active macromolecules from extracellular fluid. He and his colleagues are investigating low density lipoprotein, the principal particle for the transport of cholesterol in humans.

Mr. Latham is founder and chairman of Haemonetics Corp. of Braintree, Mass., which develops, manufactures and sells systems used for the preparation of clinically useful quantities of blood platelets from donors for the support of patients undergoing intensive cancer chemotherapy. The Latham Family Career Development Professorship will, primarily, support research in hematology, immunology and cardiovascular disease.

The establishment of the Latham Family Career Development Professorship and the appointment of Dr. Krieger were announced by President Paul E. Gray.

"MIT is truly a family affair with the Lathams, and the Institute has been strengthened by their generosity and concern," he said in making the announcements. "This new gift will support, now and in the years to come, many extraordinarily talented young faculty members as they work to expand our knowledge in these important fields," Dr. Gray said.

Mr. and Mrs. Latham live in the Jamaica Plain section of Boston. He received the SB in mechanical engineering from MIT in 1930. From 1930 to 1935 he was a development engineer at DuPont Co. He returned to the Institute in 1936 as a Sloan Fellow, taking part in an intensive 12-month management program for young executives. From 1936 to 1941 he held development engineering and

management posts at Polaroid Corp. From 1941 to 1967 he was with Arthur D. Little, Inc., serving successively as engineer and then as senior vice president. He founded Haemonetics in 1972. Mrs. Latham holds both the BS and the MS in chemistry from Oberlin College and taught chemistry at Mount Holyoke College. She has sung for several years with the MIT Choral Society.

Mr. and Mrs. Latham have been generous supporters of MIT. They are Founding Life Members of the Sustaining Fellows Program. Their interests lie in molecular biology, the health sciences and medical research.

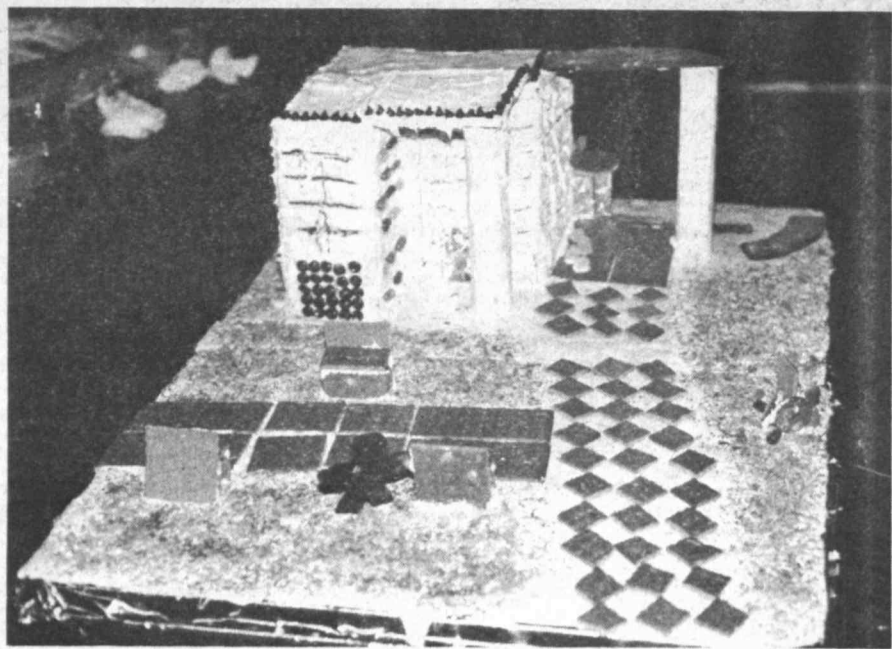
Mr. Latham's professional affiliations include the American Society of Mechanical Engineers, the American Institute of Chemical Engineers, the American Association for the Advancement of Science and the National Academic Engineering Club.

He has served as vice president of the MIT Alumni Association (1950-52) and was a member of the Major Gifts Committee for the Second Century Fund (1961) and the Visiting Committees for Humanities (1958-60), Sponsored Research (1969-74), Psychology (1965-73) and Mechanical Engineering (1974-75). He is a Life Member of the Alumni Council.

The other MIT alumni in the family are the Latham children—William Nichols Latham, SB (1946) and SM (1948), mechanical engineering; Harriet Latham Robinson, SM (1961) in biochemistry and PhD (1965) in microbiology; David W. Latham, SB (1961) and SM (1964), mathematics; and Thomas W. Latham, SM (1966), mechanical engineering.

Dr. Krieger is a native of New Orleans. He holds the BS in chemistry (1971) from Tulane University and the PhD in chemistry (1976) from California Institute of Technology. He was a research fellow in internal medicine and molecular genetics at the University of Texas Southwestern Medical School. He joined the MIT faculty in 1981.

His research may yield information that could be helpful in treating diseases such as atherosclerosis which may involve the excessive accumulation of cholesterol by the body. His work may also lead to the development of new drug delivery systems.



If it's the season to be jolly, why not also the time to dig out the gingerbread recipes and create an edible version of MIT's new Wiesner Building? Students of the Delta Psi House, also known as Number 6, sculpted not only the arts and media technology building but also its artist-designed surroundings. While the walkways were somewhat literal their impression of the new Henry Moore sculpture seemed to carry abstract art in a direction not seen before. It's a Delta Psi tradition to make a gingerbread house for the centerpiece of their Christmas party each year. Leading the gingerbread sculptors this year was Shawna Vogel '86, a student of biology.

—Photo by T.C. Lau '88

←Here & There→

Gyorgy Kepes, founder and director emeritus of MIT's Center for Advanced Visual Studies, received the George Washington Award Medallion of the American Hungarian Foundation at the organization's annual dinner in New York City. Professor Kepes, Institute Professor Emeritus and professor of visual design, emeritus, is a noted painter, designer, author and educator who was a pioneer in recognizing the convergence of art and science. He was born in Hungary, came to the US in 1937 and joined the MIT faculty in 1946.

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Recently we wondered what other media outlets might be sharing our name. We mentioned a call-in program at a Detroit radio station and an occasional column in USA Today, both called Tech Talk. It seems we overlooked someone in our backyard, the Boston Herald, which also has a column under that heading.

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He was an ebullient man who didn't look his age—and, in terms of what he tried to accomplish, didn't act it either. **George L. Diggs**, a graduate of Norwood High School, first attended MIT in 1918 as one of the Institute's earliest minority students. He left and was readmitted as a member of the Class of 1926, but left again after a year or so when he became ill with mumps.

Then he began a long career with the Post Office, retiring after 30 years, and in 1956 started a second career as an electrical technician at the Charles Stark Draper Laboratory (then the Instrumentation Laboratory). By the time of his retirement there in 1969 he had been promoted to senior technician. Recalled a supervisor a few years ago, "He did very good work (and) his knowledge usually was well beyond the level at which he worked." He added, "I have always been impressed by his desire to learn, understand and improve himself. He is a fine person, a conscientious worker and a true gentleman."

The desire to learn never really left Mr. Diggs. In 1949 he completed the two-year Electrical Course at the Lowell Institute School. In the fifties, attending classes nights, he earned an associate degree in electrical engineering from Northeastern University. Later, in 1965, he completed the two-year Mechanical Course at the Lowell Institute School, and he took other courses there—including computer programming—through 1969.

During much of this time he was helping support seven children from two failed marriages.

After two careers, in retirement and in his eighties, Mr. Diggs was still nagged by his lack, as he put it in a letter to MIT, "of a full degree, especially from MIT." It had motivated him, he said, "to try and re-enter the Institute."

In August of 1984, with the support and assistance of Dean Robert M. Randolph, Mr. Diggs was readmitted to MIT as a special student to take one course in the Department of Electrical Engineering and Computer Science—to see where that might lead.

He began classes but ill health, as it had nearly 60 years earlier, forced him to withdraw. He had been wearing a pacemaker since 1979.

He had visited friends at MIT this fall and still talked of resuming his studies. But George Diggs died last month in his apartment in Cambridge.

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MIT physics professor **Anthony P. French**, who edited a centenary volume on Albert Einstein to mark the 100th anniversary of Einstein's birth in 1979, has produced, with P.J. Kennedy of the University of Edinburgh, a companion volume on Niels Bohr, who was born 100 years ago in October. The illustrated book, *Niels Bohr: A Centenary Volume*, published by the Harvard University Press, was praised by Professor Jeremy Bernstein of the Stevens Institute of Technology in a Boston Globe review: "I am sure there will be many other books on Bohr this year. I think it will be difficult to find a better one than this." Dr. French is currently serving as president of the American Association of Physics Teachers.

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One of the first major projects of the Arcadia Institute in Maine, a year-old non-profit center for the study of medical, scientific and social issues, is an oral history project—an autobiography/biography of **Francis O. Schmitt**, MIT Institute Professor Emeritus, and professor of biology, emeritus. The project, funded by two New York Foundations, is being carried out by Dr. Susan E. Mehrtens, associate director of the Institute.

Dr. Schmitt was chosen, according to the Bar Harbor, Maine, Times, because as a pioneer in the field of neuroscience he worked to integrate biology, chemistry and physics into the interdisciplinary fields of biochemistry, biophysics and molecular biology needed to study the brain. "He helped people understand how our understanding of the brain and nervous system has developed," said Dr. Judith Swazey, the Institute founder and president.

Over the course of a year, Dr. Mehrtens will interview Dr. Schmitt and more than 60 scientists in Europe and America whose work was influenced by him. Tapes of the interviews and their transcriptions will be given to MIT for keeping.

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PRESS CLIPPINGS:

—One of MIT's youngest students, 15-year-old **Jolly Chen** of California, has been profiled in the Los Angeles Times. Chen, born in Peking, came to this country with his family from Hong Kong when he was seven and has been amazing teachers ever since with his math and science ability, the newspaper said. He came to MIT as a freshman this year without benefit of a high school diploma but with a 4.0 high school grade-point average. Why MIT? "For computer science, it's definitely the place to be," he told the Times, but he added, "It's a lot tougher than high school. You get humble real fast here."

—The Globe featured the views of **Gary T. Marx**, professor of sociology in the Department of Urban Studies and Planning, in a story on the increasing pervasiveness of electronic surveillance systems. "Technical innovations have... become penetrating and intrusive in ways that previously were imagined only in science fiction," said Dr. Marx, an expert in the field. One result, he said, is a growing "climate of suspiciousness."

Blacks, Hispanics are report focuses

Two MIT professors have played key roles in reports dealing with the condition of blacks and Hispanics in Massachusetts.

A study by eight black professors from area colleges and universities—edited by MIT's Phillip L. Clay, associate professor of urban studies and planning—has found that Boston blacks are being excluded from the city's economic boom. The Boston Globe has reported.

"Ominous trends" suggest that Boston's blacks are losing ground "in a city and region that are experiencing an economic renaissance," said Dr. Clay, who also wrote a chapter on housing and development. In it, he concluded that blacks "are not involved in shaping and managing their community.... In such a situation, cynicism has fertile soil; the winners in the development game are not blacks or

other resident groups, but organized interests who have the time and resources to run the City Hall gauntlet."

On a similar topic, Yohel Camayd-Freixas, assistant professor of planning and community psychology, is quoted by the Associated Press as saying that Hispanics will soon replace blacks as the largest ethnic minority in Massachusetts and are the poorest and least educated ethnic group in the state. Professor Camayd-Freixas is cochairman of the state Commission on Hispanic Affairs, which recently issued a preliminary report based on hearings held across the state. "We are at the beginning of a Hispanic baby boom in Massachusetts," he said. "Yet Hispanics have the lowest median family income in Massachusetts, even lower than native Americans.

Six from MIT cited in Esquire survey

Four MIT faculty members—and a doctoral candidate—are among Esquire magazine's 1985 "Men and Women Under Forty Who Are Changing the Nation." Profiled in the December issue of the magazine are: Alan H. Guth, associate professor of physics; H. Robert Horvitz, associate professor of biology; Richard C. Mulligan, assistant professor of molecular biology; Sherry R. Turkle, associate professor of sociology; and W. Daniel Hillis, an MIT graduate and doctoral candidate in electrical engineering and computer science.

Dr. Guth is cited for his revolutionary theories about the origin of the universe; Professors Horvitz and Mulligan for their

pioneering work in genetics; Professor Turkle for her exploration of the links between computers and human behavior; and Hillis, a scientist at Thinking Machines Corporation of Cambridge, for his innovative work in artificial intelligence.

Still another MIT scientist, David J. Edell, assistant professor of electrical and bioengineering, was included in a separate listing of notable recent achievements, for his development of an implantable silicon chip that detects nerve impulses and which could eventually help overcome problems of the physically disabled.

Two are promoted in Benefits Office

Kerry B. Wilson, assistant director of Personnel for the Compensation Office, has announced the promotions of Sherry H. Capano and Julienne M. Kelly to administrative staff in the benefits section of the office.

Ms. Capano will supervise EDP development and record-keeping. One of her first projects will be to supervise the loading and testing of the benefits data base.



Ms. Capano



Ms. Kelly

She joined the personnel office as a receptionist in the employment section in 1981. Prior to her recent appointment, she was an administrative assistant on the support staff in the wage and salary section of the compensation office.

bachelor's degree at Boston College. Her husband, Michael, is a PhD candidate in the department of Materials Science and Engineering at MIT.

Ms. Kelly will be responsible for supervising all responses to benefits inquiries for the MIT community and for designing and implementing all benefits orientation programs. She will supervise the administration of the Institute's scholarship program and the tuition assistance program.

Ms. Kelly, a 1984 graduate of Boston University, has worked for one and one-half years as an administrative assistant on the support staff.

In other news, Ornah R. Becker and Donna J. Taylor, current staff members, will carry responsibilities dealing with benefits planning and program development. Projects assigned to them will include research and development of new benefits programs such as FRAP (Flexible Reimbursement Account Program), the writing of Summary Plan Descriptions, the preparation of special reports and summaries and the development and delivery of workshops and seminars.

Nancy Urquhart, benefits associate, will develop retirement estimates and counsel retirees on all applicable retirement programs. She will continue to develop and run the fall and spring pre-retirement seminars on campus and at Lincoln Laboratory.

IAP to offer great variety

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students with "dual literacy" (No. 4260).

Information Services offers a range of single-session computer courses throughout January (No. 1150-1165).

From the Statistics Center comes "Lies, Damn Lies, and Statistics," an introduction into the mysteries of the art (No. 4326). Again this year, the Chinese Student Club presents a variety of programs, including "Chinese Soap Operas" (No. 4608) and "The Case of Long Guang Huang" (No. 4608).

People can "Build Your Own Speakers" with the help of Poh Ser Hsu, whose offering is one of the many "How-To-Do-It" activities.

Undergraduate Kenneth Sparks examines "Security Clearances and the MIT Student: Your Rights and Obligations" a subject relevant to civil libertarians and anyone considering working in the military-industrial complex.

A tradition continues in the Music section with the IAP Orchestra (No. 459), a sight-reading ensemble conducted by Roland Vazquez. Players from performing groups join community members to read works by Beethoven, Schumann, and Sibelius. On the other hand, a tradition may be born with the IAP Chorus (No. 453), which brings together for the first time this year anyone with "enthusiasm, some choral experience and music-reading ability." Members will sing Beethoven's Symphony Number Nine.

From Mathematics comes "Discrete Groups, Fractals, and Iteration," which examines examples of discrete groups of low-dimensional geometries (No. 384).

"How Tough Can You Make 4340 Steel?" People can find out in activity No. 350. Using traditional blacksmithing techniques, participants will forge a blank for a fracture toughness specimen.

Institute Professor Franco Modigliani, 1985 Nobel Laureate in economics, will discuss his work in "Modigliani on Economics" (No. 202), be honored, in "A Tribute to Franco Modigliani" (No. 203), and be available for informal talks, in the Sloan School Faculty Open House (No. 630).

The Medical Department is again offering its broad education program with topics such as "AIDS Update" (No. 3148), "How Do You Spell Relief? Over-The-Counter Drug Abuse" (No. 3109), "How To Start A Walking Program" (No. 3111), and "Depression: What Is It? Why Is It? Do You Have It? What To Do" (No. 3117).

As part of "Fusion Safety and Economics," a panel of national experts will discuss the prospects of fusion energy (No. 475).

Professor Samuel Jay Keyser plans to teach "How To Write Metrical Verse" (No. 300) and review the work of those who participate.

The Literature Section's annual film series will have as its theme, "Women in Crime," concerning attitudes toward the connection of gender to criminal behavior, both comic and tragic (No. 325).

In "Shakespeare's, Olivier's, and History's Henry V," George Kendall poses the question, was this king of England an epic hero or an aggressive, warlike monarch? The movie by Laurence Olivier will be followed by a discussion (No. 4654).

Symphony to feature 2 soloists

Two guest soloists—pianist Seth Kimmelman and glass harmonica player Vera Meyer—will be featured in the MIT Symphony Orchestra winter concert in Kresge Auditorium on Saturday, Dec. 14, at 8:30pm. Alan Yamamoto will be guest conductor.

Mr. Kimmelman will perform Prokofiev's Piano Concerto No. 3 in C Major, Op. 26. The pianist recently returned from his fifth concert tour of Europe where he was the only American asked to perform in the continent-wide European Year of Music Festival. His Boston debut last February in the Charles River Concert Series was praised by the Boston Globe for its "powerful command of sonorities, singing tone, and melting lyricism." That recital will be re-broadcast by Radio WBUR on Christmas Day.

Vera Meyer, who has a background playing flute and recorder, will perform Mozart's Adagio and Rondo in C, K. 617, on the glass harmonica. Mozart composed this quintet for a relative, Marianne Kirchgessner, who was the leading glass harmonica virtuoso of the day.

The glass harmonica, invented by Ben Franklin in 1761, flourished in Europe for about 40 years until people came to believe that its ethereal, haunting sound caused insanity and nervous disorders.

The program also will include Schumann's Symphony No. 3 in E-flat Major, Op. 97, *Rhenish*.

Mr. Yamamoto is a member of the conducting faculty at New England Conservatory and is the Assistant Conductor of the Boston Philharmonic. This spring, he will be in residence at MIT as guest conductor of the Symphony Orchestra while Professor of Music David Epstein, conductor and director of music

Becker to read poetry

Robin Becker, assistant professor in the Writing Program, will give a poetry reading of her recent work Monday, Dec. 16 at 8:15pm at the Blacksmith House, 56 Brattle St., Cambridge. The event is sponsored by the Cambridge Center for Adult Education.

An old IAP favorite, College Bowl, is back (No. 4505). Any four-member team from MIT may register and play.

All about lasers

A highlight of IAP this year is "The Age of the Photon is Upon Us," a special two-day Institute-wide forum of talks, shows, and demonstrations on light, particularly laser light. (See p. 3 of the IAP Guide.)

Geared toward the layperson, the program will have speakers from MIT and area institutions to explain the history and principles of the laser as well as its applications and possibilities.

"The impact the laser has made in our lives is both exciting and thought provoking," says IAP chairperson Professor Shaoul Izekiel of Electrical Engineering and Computer Science and Aeronautics and Astronautics. "This program is for everyone because it affects everyone, be it in medical treatment, entertainment, or telecommunications," he said.

Dr. A. Osoroff of Massachusetts General Hospital will discuss lasers in medical diagnosis and therapy; Professor Michael Feld of the MIT Physics Department will talk on "Lasers in Nuclear Science," and Dr. M. Feiner of Sony Corporation will give a demonstration with his talk on the compact disc.

Prof. N. Bloembergen of Harvard University, Nobel laureate for his work in lasers, will wind up the two days of talks with an overview "The Age of the Photon."

Light shows will be presented each evening by Paul Earls, a staff member at the Center for Advanced Visual Studies.

—Maryglenn Vincens

Infinite corridor

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was obvious we had to provide a vehicle."

Most MITers had a question of their own: How did the hackers get the car, a junkyard Fiat 128 sedan, into the building?

The spokesman didn't want to be too specific, but he said the car was carried into the building, over outside stairs, directly onto the first floor. Carried? "With 20 people carrying less than a 2,000-pound vehicle, it's a fairly light load for each person, about 100 pounds," he explained.

The real trick, he said, was "pushing it down corridors, and making turns," all the while being careful not to cause any damage. "It wasn't easy," he said.

And where had the hackers stashed the car? "Do you know of anything less conspicuous than a car parked on Memorial Drive?" he asked.

Morrison to speak

Professor Philip Morrison of Physics and his wife, Phylis Morrison, author and educator, will discuss the "Symbol and Substance in Grade School Science" Thursday, Dec. 12, at the New England Aquarium Auditorium at 7:30pm.

Edward W. Brown Jr.

Burial services will be held today (Wednesday, Dec. 11) for Edward W. Brown Jr. who died December 5 at the age of 68. Mr. Brown had been a porter in the housing system from 1946 until his retirement in 1982.

He is survived by his widow, Albertha Lane Brown, three children and a step-daughter, five sisters and two brothers.

John F. Fitzpatrick

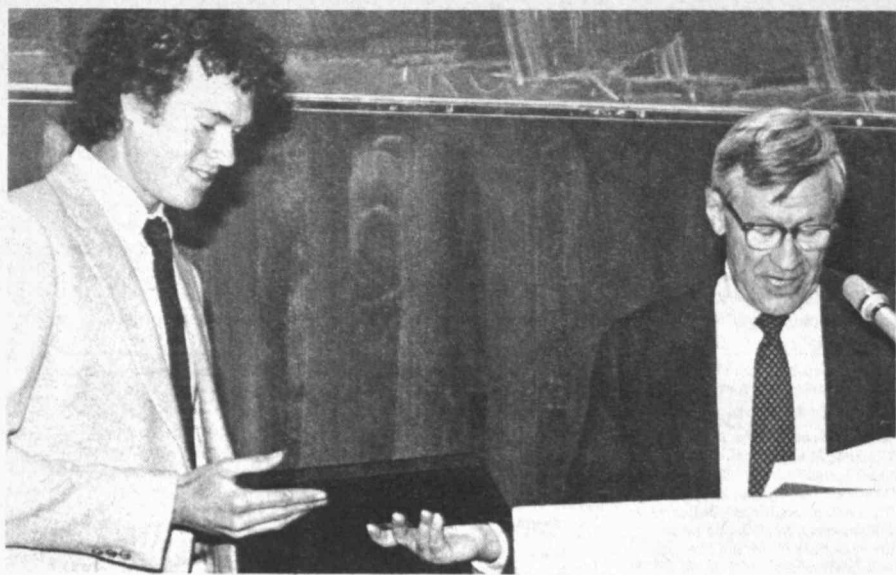
A funeral Mass will be said at 10am today (Wednesday, Dec. 11) in Blessed Sacrament Church, Saugus, for John F. Fitzpatrick, 44, who died December 7 following a long illness. Mr. Fitzpatrick had been a heating and ventilating mechanic in Physical Plant since 1980.

He is survived by his widow, Susan McCusker Fitzpatrick; two children, John F. III and Jill C. Fitzpatrick, two sisters and a brother.

Richard A. Osborne

A memorial service for Richard A. Osborne, 66, of Wayland was held Thursday in the Wellesley Park Assembly of God Church. Mr. Osborne, a retired staff member in the Laboratory for Information and Decision Systems, died December 1. He had worked at MIT from 1948 until his retirement in 1981.

Survivors include his widow, Louise Nickerson Osborne; a daughter, Nancy Santamaria, and a granddaughter, Amy Santamaria, all of Wayland. Memorial contributions may be made to the church or to the American Cancer Society.



Two ocean engineering students were honored last month at the annual Robert Bruce Wallace Lecture. Peter A. Quigley, above, a graduate student from Larchmont, N.Y., received the Wallace Prize for academic excellence from David H. Saxon, chairman of the MIT Corporation. Below, Professor T. Francis Ogilvie, head of the Department of Ocean Engineering, presented the Undergraduate Research Prize to George Kriezis, a senior from Kifisia, Greece.

—Photos by Calvin Campbell



Football players named all-stars

Six members of the MIT football team have been named to the 1985 New England Conference All-Star squad selected by the league's coaches.

Named to the all-star first team were offensive guard John Newton (E. Greenwich, R.I.), a graduate student; junior defensive end Rich Rice (Rockland, Mass.); sophomore line-backer Mark Hanson (Peoria, Ill.), and sophomore running back Hugh Ekberg (Pepper Pike, Ohio).

Defensive tackle Larry Monroe (Arab, Ala.), a graduate student, and junior offensive tackle Art Gregory (Boxford, Mass.) were selected to the second team. This was the third straight year Monroe received conference honors. He was a first-team selection in 1983 and second team in 1984. Rice was a second-team all-star last year.

Ekberg was MIT's second leading rusher with 600 yards on 121 carries for 5.0 average. He set a school record for most yards rushing in a game (182) against Assumption earlier this season. Hanson led the Engineers in tackles (91) despite missing one game with an injury. Monroe was second in tackles (75) while Rice led the team in sacks (12½). Newton and Gregory were two of the premier blocking linemen in the conference.

MIT was second in scoring defense allowing only 12.4 points a contest. Coach Dwight Smith's team also was second in rushing

defense (105.5 yards) and third in both total defense (218.0) and rushing offense (177.1).

Junior running back Chris Adams (Phoenix, Ariz.) was fifth in the conference averaging 85.4 yards per game. He also set a school record for most yards rushing in a season (683). Sophomore Peter Gasparini (East Syracuse, N.Y.) was fifth in the conference in punting with a 34.0 average.

In other awards, Monroe was named the team's "Most Valuable Player" at the squad's break-up banquet Friday night at the MIT Faculty Club. Ekberg was selected as the "Outstanding Offensive Player" while Rice was named the "Outstanding Defensive Player." Adams, meanwhile, received the "Most Improved Player" award.

Four-year participation awards went to Monroe and senior linebacker Nick Nowack (Bolingbrook, Ill.) while captains awards were presented to Gregory, Monroe, and Nowack. Ekberg and Hanson received "Player of the Week" awards for outstanding performances during the season.

MIT finished with a 3-5 record this past season competing in the New England Conference with Assumption, Bentley, Massachusetts-Boston, Merrimack, Providence, Roger Williams, Southeastern Massachusetts, and Stonehill. Three of those losses were by a total of seven points.

Whitaker Fund seeks applicants

The Whitaker Health Sciences Fund invites graduate students and faculty to apply for research awards totalling \$1.6 million for the fiscal year beginning July 1986.

Approximately five fellowships (plus five renewals) for MIT doctoral students will be available this year, as well as two Whitaker College of Health Sciences, Technology, and Management fellowships (plus two renewals) and one Harvard-MIT Division of Health Sciences and Technology fellowship (plus two renewals).

The due date for fellowship applications is February 1, 1986. MIT fellowship applications should be submitted to the departmental representative of the Committee on Graduate School Policy (and forwarded to Dean Frank E. Perkin's office by March 1, 1986), the Whitaker College fellowship applications to Dr. Emilio Bizzi's office, Rm E25-526, and the Harvard-MIT HST Division fellowship applications to Professor Kenneth A. Smith's office, Rm 3-240.

All renewal applications should be sent directly to the Whitaker Health Sciences Fund

Office, Rm E25-501, by February 1. Fellowship awards will pay a \$800/month stipend, plus a full year's tuition beginning September 1986.

In addition, thirty-one faculty research grants in the amount of \$40,000 (excluding overhead) will be awarded, effective July 1986, to young investigators in the biomedical sciences as follows:

- 11 MIT faculty research grants.
- 9 Harvard Medical School/MIT collaborative faculty research grants.
- 7 Boston University School of Medicine/MIT collaborative faculty research grants.

—4 Tufts University School of Medicine/MIT collaborative faculty research grants.

MIT faculty grant applications must be submitted to the respective department head by February 1, and BUSM/MIT, HMS/MIT and TUSM/MIT collaborative faculty applications to the respective chief of the teaching hospital or medical school department by January 15.

Announcement of these awards will be made on April 1, 1986. For further information, please contact the Whitaker Health Sciences Fund Office, Rm E25-501, x3-7878.