Massachusetts Institute of Technology



February 15, 1978 Volume 22 Number 23

MIT Survives the Storm

Alive and Well and Living in Cambridge



KRESGE SNOWED IN. Piles of snow left in the wake of last week's blizzard lend added grace and beauty to MIT's Kresge Auditorium.

Physical Plant's Heroic Efforts Averted Disaster, Elicit Thanks from Community

By WILLIAM T. STRUBLE Staff Writer

"They all did a helluva job!"

Without regard to rank or status, that's the unanimous judgment of virtually all of the small brigade of the men and women of MIT's Department of Physical Plant who stayed to hold the fort at the Institute and saved the campus from otherwise certain disaster during cane-blizz

Working 18 to 20 hours a daysome for seven straight days-they performed near-heroic work in minimizing the burden and damage of the storm, which clogged the campus streets and lanes with snow, smashed and ripped off doors and windows, caused flooding in nine buildings, and-for the first time in anyone's memory-choked parking garages with snow

When they could sleep, some physical plant people dozed at their desks. Others got some rest, without blankets, on the wrestling mats in duPont Gymnasium, in lunchrooms, and elsewhere. As for food, they ate meals prepared largely by students. "Without them (the students), we couldn't have kept going," said Richard de Wolfe, manager of building maintenance.

And students, some of whom volunteered, also worked as paid snow shovelers in platoons assembled by physical plant of about 25 persons each.

Altogether, say the physical plant people, it was a communitywide esprit de corps and cooperation of all departments, without complaint, that enabled them to

get their job done.

"It was a joint effort of a heck of a lot of people," said Laurence W. Pickard of Milton, manager of

(Continued on page 8)

Student Workers Staffed Dining Halls During Storm

By CHARLES H. BALL Staff Writer

With the help of some dedicated student workers, MIT was able to provide food to its snowbound students-and to quite a few employees, too-during the storm crisis last week.

Meals were available for students on the contract feeding program at the Institute's four principal student dining areas-at the Student Center and walker Memorial, and at Baker and Mac-**Gregor Houses**

The comment of Joseph A. (Jack) Principe, the unit manager and food production supervisor at MacGregor, seemed to sum up the feeling of supervisory personnel about the way their student staffers pitched in during the emer-

(Continued on page 5)

-Photo by Calvin Campbell **Emergency Bus**

Well Received

By Employees

By ROBERT C. Di IORIO Staff Writer

Emergency bus transportation provided by MIT from six points north, south and west of Cambridge helped several hundred Institute employees get to and from their jobs Monday and Tuesday, Feb. 13 and 14, when the university reopened after four days lost to the Blizzard of 1978.

The bus system—conceived Saturday and put into organizational form during a busy Sunday, Feb. 12, became a reality through the significant individual efforts of scores of Institute employees and involved nearly every segment of the MIT family. Even the MIT Beaver played a role.

The 19 buses used Monday made (Continued on page 3)

By ROBERT M. BYERS

Staff Writer

MIT this week began putting the pieces back together again in the wake of the worst blizzard of the century-Monday-Tuesday, Feb. 6-7-a storm that literally paralyzed MIT along with the rest of the northeast region.

Snow began at mid-morning Monday and conditions deteriorated so rapidly that the Institute was closed at 3:30pm. All but essential personnel set out for home.

Most made it, albeit many spent hours reaching outlying suburbs. One Lincoln Laboratory employee found himself trapped all night along with thousands of others on Rt. 128, finally abandoning his car and taking refuge in a storm shel-

A few-including several building services employees-found themselves literally trapped at the Institute, sleeping where they could find couches and chairs. Others took refuge with Cambridge friends.

The brunt of the storm, however, fell most heavily on the 60 or so employees of the Department of Physical Plant who remained on duty and on students living in dormitories on campus as well as on Campus Patrol officers on duty at the time.

Philip A. Stoddard, vice president for operations, marooned in his own home in Hingham, was effusive in his praise for both the Institute personnel and the students.

"There is no way we can express fully our gratitude for the way these people pitched in, helped out, took charge," Stoddard said. "The fact that MIT escaped serious damage and the fact that human hardships were kept at a minimum were due entirely to the spirit and efforts of the people who stayed on duty and to the students who worked right along with them."

Physical Plant's immediate objective during the storm and in its immediate aftermath was to keep fire lanes open. Meantime, howling winds with gusts up to 90 and 100 miles an hour began blowing open windows that had been left ajar and offices filled suddenly with snow. Crews were kept busy boarding up the windows and shovelling the snow before it could cause further damage.

As the storm abated Tuesday, crews began seeking rest, sleeping on mats in the wrestling room at duPont Athletic Center and on couches and chairs in dormitories.

Meantime, student dining room (Continued on page 4)

ncrease

Tuition at MIT will be increased by \$350 for the 1978-79 academic year beginning July 1, an unwelcome inrease, which Chancellor Paul E. Gray said is the result of inflationary pressures that continue to drive up the costs of operating the Institute.

The increase will put MIT's tuition at \$4,700, an increase of eight per cent. It marks the ninth consecutive year in which MIT has been forced to raise tuition, Dr. Gray said. A year ago, tuition was raised by a similar \$350. Tuition at

MIT is for the two principal terms of the academic year—the fall term beginning in September and the spring term beginning in February. Tuition for the summer term is an addition to the regular tuition and is computed on a pro rata basis

MIT, Dr. Gray said, after several years of deficits, had a balanced budget last year and expects to have a balanced budget this year, primarily because the Institute has been able to reduce the gap that had been growing between the rate of increase in expenses and the rate of increase in income. MIT's total budget this year will be \$307 million.

Dr. Gray said that MIT's current five-year \$225-million Leadership Campaign to muster new longterm resources for the Institute has been an important help.

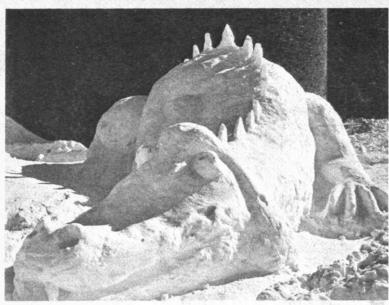
"But it cannot be expected to offset tuition increases, since much of the campaign success to date is in the form of pledges to be paid over the next three to five years.'

Dr. Gray said the new tuition in-

crease will leave undisturbed the traditional MIT ratio between tuition charges and average salaries commanded by students upon graduation.

"While this is of little comfort now to those upon whom this burden falls," Dr. Gray said, "it remains an economic fact that as MIT tuition has risen over the years, so has the value of an MIT education. This is borne out every year by the salaries paid to MIT

(Continued on page 4)



PREHISTORIC REPTILE was sculpted from snow and ice by MIT students on West Campus last week after blizzard paralyzed the Institute and left classes cancelled for four days. The beast was one of numerous snow and ice figures students erected on campus.

-Photo by Gordon R. Haff

Concert Band to Premiere Brown's Concerto Grosso

The MIT Concert Band, under the direction of John D. Corley, will premiere its newest commissioned work-Merton Brown's Concerto Grosso for Concert Band-at the finale concert of its winter tour Saturday, February 18, at 8pm in Kresge Auditorium.

Admission to the concert is free. Tickets will be available in the lobby of Building 10 the week before the concert, and at the door. The public is invited.

The program will include, in addition to Concerto Grosso, five pieces performed by the Concert Band on its recent tour-Sketches on a Tudor Psalm (1971) by Fisher Tull, Ballad for Band (1946) by Morton Gould, Prelude and Allegro (1961) by Gregory Tucker, Fantasia by Vittorio Giannini, and Festive Music for Double Wind Orchestra and Percussion (1972) by William Maloof.

Merton Brown's Concerto Grosso, commissioned last year by John Corley and the Concert Band, is Mr. Brown's first work for band. The piece separates the band into smaller groups of instruments, and creates the effect of different chamber groups answering each other. Mr. Brown studied composition with the noted American composers Wallingford Riegger and Carl Ruggles.

Gregory Tucker's Prelude and Allegro was composed for the MIT Centennial Convocation in 1961, where it was performed under the title A Centennial Overture. Mr. Tucker was a distinguished composer and a member of the MIT music faculty from 1947 until his death in 1971.

Vittorio Giannini wrote five works for band that have all become standard repertory items. This performance of the Fantasia commemorates the 75th anniversary of the composer's birth. Mr. Giannini died in 1966.

William Maloof's Festive Music for Double Wind Orchestra and Percussion was commissioned by the MIT Concert Band, and premiered on the band's 1973 tour. Mr. Maloof is chairman of the composition department at the Berklee College of Music in Boston.

Morton Gould, composer of Ballad for Band, makes frequent use of American themes in his work. He has written music for films, stage, and ballet.

Fisher Tull's Sketches on a Tudor Psalm is receiving its first MIT performance at this concert. Mr. Tull is a graduate of North Texas State University, and the recipient of numerous composition awards from the American Society of Composers, Authors, and Publishers (ASCAP), and the Texas Composers Guild.

The 60-member MIT Concert Band, formed in 1948, is dedicated to the performance of original works for symphonic band. Conductor John Corley, who has been with the band since its inception, has appeared as guest conductor of the Boston Pops and the Cambridge Festival Orchestra, and is currently conductor of the Hingham Symphony Orchestra and director of the Boston Conservatory

Dramashop to Present Jonson's Satire, 'Volpone'

Volpone, or The Fox, Ben Jonson's Elizabethan satire on greed, will be the major winter production of the MIT Dramashop, opening in the Little Theatre Wednesday, Feb. 15, at 8pm.

Performances are also scheduled for Thursday through Sunday, Feb. 16-19, with the curtain at 8pm.

The plot centers around the rich Venetian, Volpone, and his knavish sidekick Mosca, who extracts costly gifts from those who hope to become Volpone's heirs. One of Jonson's most famous plays, it's plot was borrowed recently for the successful New York production of Sly Fox.

The Dramashop production has been adapted by Joseph D. Everingham, professor of literature, who is also directing it. Robert N. Scanlan, assistant professor of drama and theatre arts, is the producer.

The play takes place in Renaissance Venice with costumes by Cecelia Eller, sets by William Fregosi and lighting by Edward Darna.

Actors playing major roles in-

clude: Volpone-Andrew Piecka of Arlington, a special graduate student in electrical engineering and computer science; Mosca-Albert Ruesga of Hialeah, Fla., a freshman: Celia-Susan Morgello of the Bronx, a senior in biology: Voltore—Mark De Lemos of Palo Alto, Calif., a senior in mathematics; and Corvino-Curtis Fennell of Miami, Fla., a senior in earth and planetary sciences.

Tickets are \$2.50 for all performances except opening night when they will be sold for \$1.50. Tickets are on sale daily in the Maclaurin Lobby (Bldg. 10). Reservations may be made by

calling x3-4720.

RUNE Open House

The staff of 3 RUNE, the third edition of the MIT journal of arts and letters, will hold an open house on Thursday, Feb. 16, at 5pm in Rm. 14N-309. All members of the MIT community interested in joining RUNE or just finding out more about it are invited to meet and talk with the staff in an informal setting. Refreshments will be served.

INSTITUTE NOTICES

Announcements

Basic Pistol Marksmanship Course—Five sessions beginning Thur, Feb 23, 6:30pm, duPont Pistol Range. Course assumes beginner level & stresses safety & basic marksmanship skills. Fee, \$20, covers everything. Info & registration: Andy Platais, x8-1419 Draper.

BSO Open Rehearsals*—Discount tickets available for Wed, Feb 22, from the TCA Office (W20-450), x3-4885.

Conversation Exchange**-The MIT Wives' Group has compiled a list of international women interested in exchanging foreign lan-guage conversation for English conversation. Contact: Karen Devine, x3-2916.

Official Notice-Grade reports for January Independent Activities Period will be mailed to the term address on Fri, Feb 17.

Official Notice-Examination Period, March 1978. Petitions for postponed final & advanced-standing exams must be returned by Wednesday, Feb 15, to the Schedules Office (E19-338). Official Notice-Graduate Students. Applicaions for advanced degrees in June, 1978 must be returned to the Registrar by Fri, Feb 24.

RUNE**- Submissions can be dropped off in Rm 14N-305 or sent through Institute m Rm 50-301. Deadline: Tues, Feb 28. Info:

MIT Urban Action-Students interested in volunteering can drop by Rm 7-141, Monday-Thursday, noon-5pm, Friday, 3-5pm. Info:

Reservations for Kresge Auditorium for 1978 & 1979**-Fri, Feb 17, 2pm, Rm W20-407. Info: Marilyn Messenger, x3-7974.

New UROP Listings

For more detailed information on UROP opportunities listed, MIT undergraduates should call or visit the Undergraduate Re-search Opportunities Program Office, Room 20B-141, Ext. 3-5049 or 3-4849 unless otherwise specified in the listing. Undergraduates are urged to check with the UROP bulletin board in the main corridor of the Institute.

Call for Proposals

If you haven't read the "How to Participate" section of the 1977/78 UROP Directory, do it now! All that information was put together for you with loving care and won't fit in this column. Spring Term Proposals: Feel free to start submitting them. General Principles: Don't ask for what you don't absolutely need. Be sure you have submitted your past UROP evaluations. Write a good proposal. Announce-ment of Awards: Starting the week of Febru-ary 27. Please don't call and bug us that week; answers will get out as fast as we have them Decisions will be made in order of receipt of proposals until we are broke. Availability of Funds: 1) Generally available for materials and services requests within reason; 2) Generally available for overhead waiver requests when faculty or departments offer wages to UROP students; 3) Tougher to get if you're asking for significant wages from UROP itself,

Special Additional Funds for UROP Research

Basic modes and policies of UROP will apply for all of the funds below. Clapp and Poliak Awards are granted to undergraduates submitting outstanding proposals in engineering design. Student wage support and materials may be granted. Class of '70 Fund—As its class the Class of '70 created this fund to support socially oriented research projects under taken by undergraduates. Generally, materials and services funds rather than personal support are available. James McCormack Fund—The McCormack Fund supports students doing undergraduate research in areas relating to technology and the humanities. Some personal support is available. Sigma XI—The Scientific Research Society of North America funds proposals in applied science re-search. Uniroyal Grants—Uniroyal supports first-time undergraduate researchers in the physical, chemical, and engineering sciences. Requests for personal support and/or materials are welcome.

Wellesley College Summer Grants

Four Wellesley College Summer Grants are available for Wellesley students working with MIT faculty members and two grants are available for MIT students working with Wellesley Science faculty members. Grants are \$900 each, and may be supplemented by faculty research funds, if available. Preference will be given to projects which are ongoing from spring term. Deadline: March 1, 1978.

Eloranta Summer Fellowship Program
A limited number of summer research fellowships for MIT undergraduates will be awarded this spring under the Eloranta Fellowship Program. The fellowships are intended to support summer research or study tended to support summer research or study projects and associated travel. Any MIT undergraduate may apply, including undergraduate may apply, including seniors whose summer projects would actually occur after graduation. Students must submit a written proposal outlining plans for a summer project, including an indication of how the project will contribute to his/her education objectives, how the project will be carried out, the support available, and a budget. Letters of recommendation should be submitted before March 20, 1978, to Ms. Norma McGavern,

Film Section: Designing Film/Video Tech-

1) Design and construction of ultra low noise, compact microphone preamplifiers to fit in pre-existing microphone handles used with synchronous sound cassette recorders 2) Video editing: development of the capacity to switch between insert edit modes (vide only, video/audio, audio only) within vertical interval—no breakup or glitches. Several other media design problems are also available. Contact: Richard Leacock, Rm E21-010,

x3-1606, x3-1607.

Placement

The following companies will be interviewing during the time period covered by the cur-rent Institute Calendar. Those interested may sign up in the Career Planning and Placement Office, Mon-Fri, 9am-3pm, Rm 12-170, x3-4733. ednesday, Feb 15-ADT Security Systems; Exxon; Ford Aerospace & Communications Corp, Aeronutronic Div; Hewlett-Packard Co; Motorola, Inc. Procter & Gamble Co. Westinghouse Electric Corp; Department of Energy, Div of Naval Reactors; Naval Underwater

Thursday, Feb 16—Exxon; Hewlett-Packard Co; Motorola, Inc. Proctor & Combination Co; Motorola, Inc; Procter & Gamble Co; Procter & Gamble Co, International Div; Rutgers University; Shell Companies; Naval Ocean Systems Center.

Friday, Feb. 17-Analog Devices, Inc; Booz-Allen Applied Research; Emerson Electric Co; Exxon; Hughes Aircraft Co/PhD; Intertel, Inc; Logicon, Inc; Lutron Electronics, Inc; MITRE Corp; Shell Companies; Wang Laboratories; Westvaco Corp; Westvaco, US Envelope Div; Xerox Corp.

Summer 1978 Work/Travel/Study Programs in Africa. Volunteer corporting to be more than the control of the corporation of the control of the cont

Africa—Volunteer opportunity to live & work in rural village communities & participate in vital self-help projects. Sponsored by Crossroads Africa, Inc. Contact: Vernell Bruen, Career Planning and Placement Office, Rm 12-270, x3-4733.

New Subjects

Race Relations: Personal Attitudes and Social Change—Seminar 212 will meet in Rm 20C-016. Info: Prof John Terry, x3-5126.

Preprofessional

Summer Programs—Additional information on the following programs and other opportunities for summer study is available from the Preprofessional Advising and Education Office, Rm 10-186, x3-4158.

Mellon Summer Research Program in Psychiatry for Undergraduates—This program is held at Western Psychiatric Institute and Clinic at the University Health Center of Pitts-burgh. It provides six fellowships to college juniors and seniors for an eight-week research experience in psychiatry, June 5-July 28. It will involve close collaboration with faculty who are conducting investigations in clinical and basic psychiatric research. There is a stipend of \$750 plus travel expenses. Deadline: Mon, Feb 20.

Club Notes

ACM Student Chapter**-Organizational meeting of the MIT Association for Computing Machinery, Wed, Feb 15, 4pm, Rm 8-314. Info: Bill Weihl, x5-7541 Dorm, or Roy Kaplow,

MIT/DL Bridge Club**-ACBL duplicate bridge. Tuesdays, 6pm, Rm W20-473

MIT Chess Club*-Meetings, Saturdays, 1-6pm, Rm W20-407. Speed chess, analysis and tournaments. Info: Brad, x5-8156.

CABLE TV **SCHEDULE** X3-3625

February 15 - 21, 1978

RHETORIC & JOURNALISM (Course 21.940) with Ed Diamond. Recorded 2/25/77. THE WOMEN'S SHOW with Niti Salloway. "Women at MIT" Re-corded January, 1976. SOAP-BUBBLE CARNIVAL (IAP

2-3pm (191) Recorded January, 1978 by

Thursday, Feb. 16

10-11am

MIT PROFILES with Nancy Lu-kitsh. Guests: Prof. Harold "Doc" Edgerton and Prof. Paul Samuel-

son.

NIGHT LIFE The Amazing Fields of New England fame perform their magic for all ages. Produced by Susan Levoie.

12:30-1:30pm

7:30-8:30pm

ROBERT MCNAMARA President of the World Bank. Recorded 4/20/77 for the World Change & World Security lecture series SOAP-BUBBLE CARNIVAL (IAF #191) Recorded January, 1978 by

POLITICS & TELEVISION (Course 17.24) with Ed Diamond. Guest: Andy Glass. Recorded

Friday, Feb. 17 Channel 8: 11-12noon

1-2pm

RHETORIC & JOURNALISM (Course 21.940) with Ed Diamond. Recorded 2/25/77. POLITICS & TELEVISION (Course 17.24) with Ed Diamond. Guest: Andy Glass. Recorded

7/10/77.

THE WOMEN'S SHOW with Niti Salloway. "Women at MIT" Recorded January, 1976.

Monday, Feb. 20 WASHINGTON'S BIRTHDAY - No scheduled pro-

Tuesday, Feb. 22

Channel 8: 10-11am

2-2:30pm

POLITICS & TELEVISION (Course 17.24) with Ed Diamond. Guest: Andy Glass. Recorded 3/10/77

3/10/77.

OFFSHORE ONSHORE Explores the role of offshore drilling in the quest for gas and oil.

MIT PROFILES with Nancy Lukitsh. Guests: Prof. Harold "Doc" Edgerton and Prof. Paul Samuel-

OPERATION SAIL A docu-mentary about the voyage of the tall ships celebrating the bicen-

tennial. THE WOMEN'S SHOW with Niti Salloway. "Women at MIT" Re-corded January, 1976. MIT Figure Skating Club**—Sundays, 11am-1pm, MIT Skating Rink. Bring skates. People who skate forwards comfortably and have at least attempted to skate backwards are welne to meet other skaters and practice their

North American Tiddlywinks Team Cham-pionships*—MIT Tiddlywinks Association. The Premier winkers of the nation will meet in this epic encounter. Sat & Sun, Feb 18 & 19, 10am-5pm, Mezzanine Lng, Student Center.

Shotokan Karate Clubes-Practice, Mondays & Tuesdays , 6-7pm, Fridays , 6-8pm, duPont, T Club Lng. Info: Bill Kerr, x5-6518 Dorm.

T'ai Chi at MIT - T'ai Chi is an ancient Chinese art which developed through centuries to its actual form: an exercise that makes you feel good, fit & relaxed. In China literate people take T'ai Chi as part of their lives. After a successful experience during IAP we are organ-izing a club under the direction of Prof E. Liu. Everyone welcome. Thursdays, 4:15-5:15pm,

Religious Activities

The Chapel is open for private meditation 7am-

Christian Service*-Sundays, 10:45am Chapel. Singing, preaching, sometim monies, prayer following. All invited.

MIT Hillel Services*-Daily Minyan: 8am, Rm 1-136. The Downstairs Minyan (Conservative Egalitarian): Saturdays, 10am, 312 Memorial Dr. Reform: Fridays, 6:30pm, Chapel. Orthodox: Fridays, Sundown, Kosher Kitchen (50-005); Saturdays, 9am, Bush Rm (10-105).

Interdenominational-Worship and holy communion, Wednesdays, 5:05pm, Chapel, spon-sored by Lutheran-Episcopal Ministry. Get ac-quainted supper following. Info: Randy Clark,

MIT Islamic Society*-Friday Prayers held in Kresge, Rehearsal Rm B, 1pm.

Prayer Time**-Bible class, Fridays, 1-2pm, Rm 20E-207, guest speakers, music, refresh-ments. Miriam R. Eccles, founder-director, Alpha and Omega Missionary Society.

Tech Catholic Community*-Liturgies: Sundays, 9:15am, 12:15 & 5:15pm; Tuesdays & Thursdays, 5:05pm; Fridays, 12:05pm, Chap-

MIT Vedanta Society*-Meditation and discourses on the Gita by Swami Sarvagata nanda, of the Ramakrishna Vedanta Society of Boston. Fridays, 5:15pm, Chapel.

Echoes

February 12 - 18

50 Years Ago

Donald E. Perry '28 was named as the new president of the MIT Athletic Association. Perry was manager of the crew in his junior year. He will also serve as a member of the Advisory Committee on Athletics.

40 Years Ago

President and Mrs. Karl T. Compton will hold a reception for the Class of 1941 at their home, 111 Charles River Rd. Each member of the class has received an invitation to the annual social presentation of the freshmen to the presi-

25 Years Ago

Captain Jacques Yves Cousteau, France's foremost explorer-photographer, will show his spectacular underwater color film "Men-fish of the Deep" at the Institute. Captain Cousteau is commander of the most extensive marine research expedition in history. The Calypso Oceanographic Expedition left France in 1951 for a fouryear exploration of the waters of the world.

Prepared by Marcia Conroy, x4444, MIT Historical Collections.

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Emergency Bus Well Received By Employees

(Continued from page 1)

26 individual trips from the six pick-up points to MIT and back again, carrying 958 people to the Institute and 1,200 people on the outbound runs.

Tuesday's figures were not all in when Tech Talk went to press, but preliminary estimates were that 700 people used 18 buses to get to the Institute. About the same number were expected to take the buses back to the drop-off points Tuesday night.

Users of the service, which

Users of the service, which helped about 20 per cent of MIT's Cambridge work force, applauded the Institute's efforts.

"This is the first time in years that getting to work has been fun," said one MIT employee who rode the bus in Tuesday from the South Shore Plaza in Braintree. The ride north on the often-frustrating Southeast Expressway took only 30 minutes and arrived at the Sloan School parking lot about 8:03am.

A rider who came in from Lexington said she had delighted in "seeing people I haven't had a chance to talk to in years."

Several employees said they'd be willing to pay for the bus service on a regular basis.

The idea of the bus-lift began to be formed late Saturday afternoon during conversations between several members of the Academic Council. They were reacting to a request by Governor Dukakis that employers in the metropolitan area investigate alternative ways of getting their workers to the job on Monday. A Storm Transportation Planning Group was formed and, on Sunday morning, Howard F. Miller, assistant to the director of Physical Plant, had been called and put in charge of operations. Mr. Miller went to the Wellesley Hills home of Vice President Constantine B. Simonides at 10:30am. He was there until after midnight.

In between were several hours of conference calls, negotiations with bus companies and staffing plans.

Six locations were selected as pick-up and drop-off points: the South Shore Plaza in Braintree, the 1st Congregational Church in Wellesley Hills, Concord High School, the Battle Green in Lexington, the Burlington Mall and the New England Shopping Center in Saugus.

Two field coordinators were recruited for each location: Eugene Chamberlain, foreign students adviser, and Laurence E. Connelly. Jr., assistant accounting officer, for Braintree; Professor Ernest Cravalho and Joan Sclar of the Alumni Association for Wellesley; Professor William Siebert and Professor Richard Thornton for Concord; Joel Orlen of the Provost's Office and John M. Fresina, Safety Office director, for Lexington; David Wiley of the Analytical Studies and Planning Group and Gene Grammer, housing and food service director, for Burlington; and John "Terry" Meehan of Facilities Management Systems and Charles Libby of Information Processing Services, for Saugus.

Information about the emergency bus system was placed on the MIT SNOW telephone system which has 15 lines. The recorded voice you heard was that of Pamela DeSmidt, a Campus Patrol secretary. Her clear diction was praised by many of those who was described by the buses.

used the buses.

Meanwhile, Kathryn Lombardi, manager of Campus Information Services, was organizing an emergency reopening of the Information Center. Mary Morrissey, director of the Center, contacted Kathleen Barrett of the center's staff, who was snowbound in Marblehead, and a list of potential student workers was assembled. Seven students were able to work several shifts during the crucial hours from Sunday at 4pm, when the office reopened, through Tuesday morning. They were Susan Krolewski, Yolanda Tanner, Vincent James, Ray Russell, Eric Kaplan, Kathy Kielmeyer and Mary Kappus. Also working were Terri Priest and Dini Logalbo, members of the Information Center staff.



CHANCELLOR Paul E. Gray was among university officials who set up shuttle bus system and then saw to it that it operated. Here he is, whistle at the ready, as he posed for photographer Calvin Campbell while on a stop at the Sloan Building parking lot.



DESTINATION MIT. Some of the MIT people who used the bus shuttle service installed by the Institute this past Monday and Tuesday are shown debarking at the Sloan Building parking lot, where buses discharged and picked up passengers. (Chancellor Paul E. Gray is at right.) Institute set up the shuttle system from several outlying pick up points to help those MIT people who otherwise had no access to public transportation reach school during those post-storm days when moving about was particularly difficult.



BUS DEPOT. The parking lot at MIT's Sloan Building became a temporary bus depot this past Monday and Tuesday as school buses contracted for by the Institute to provide temporary shuttle service for MIT people

discharged passengers in the mornings and picked them up again in the evenings. Storm left getting about the Boston area impossible, particularly for those without access to public transportation.

Expressing Thanks

Joel Orlen, executive director in the Office of the Provost and one of the field coordinators for the emergency shuttle bus system MIT established in the wake of last week's storm, suggested Tuesday that anyone who wished to express some kind of tangible appreciation for the service could do so by making a contribution to the MIT Community Service Fund (Rm. 5-208).

Orlen said numerous people who used the free transportation system Monday and Tuesday of this week were profuse in their praise for how the system worked. Several asked if there were any way they could show their appreciation and one of them suggested the idea of making a contribution to the CSF, Orlen said.

Morton Berlan, MIT telecommunications director, reached a New England Telephone vice president and in a short time four telephone lines in Lombardi's office were rewired into the Information Center circuit. Ms. Morrissey and Ginger Lyons of the Information Center handled calls on those phones which came in at a heavy rate after announcements were made on Boston radio stations advising MIT employees to call in for transportation information. Dennis Baron, assistant to the superintendent for telecommunications, handled severe phone problems.

The Information Center was open from 6am to 9:30pm Monday and reopened at 6am Tuesday. Hundreds of calls about the bus service were received, in addition to the normal information requests handled daily by the center. Many of the calls were handled by Janet Snover, editor of the MIT Bulletin, Sue Shansky, production assistant for the Bulletin, and Jean Messier, secretary for the Analytical



ALBERT SARCHIONI of Cambridge, Campus Patrol attendant for the Sloan parking lot, helps check off and dispatch buses used in the MIT emergency shuttle system in the aftermath of last week's blizzard. Sloan lot was used as the central pick up and discharge point on campus.

Studies and Planning Group.

Monday night Terri Priest of the Information Center slept at Mc-Cormick so she could open the center at 6am Tuesday.

Miller and his assistant, Merrick Leler of the Physical Plant Department, set up a transportation headquarters in the information center. The pick-up/drop-off points they chalked on the control board had been selected with the help of demographic information made available by Robert Simha, director of the planning office.

Elsewhere at the Institute, Betsey Hacker of Design Services and Toni Finley, secretary to Vice President Simonides, lettered the signs that would tell people at the six pick-up points Monday morning where to get a bus to MIT.

Walter Milne, special assistant to the presdient of MIT for urban affairs, maintained close contact with government officials for the latest information on the parking and driving ban. Milne and real



MISSION CONTROL. Merrick J. Leller of Physical Plant and Kathryn W. Lombardi of Campus Information Services (standing), record arrivals and departures of buses and Howard F. Miller of Physical Plant (seated) and Terri Priest of the Information Center Staff (right) receive telephone information. The Information Center off Lobby 7 served as the control point for the buses used in MIT's shuttle service. Staff worked long hours setting up the system and telling MIT people who called in where they could catch the buses on Monday and Tuesday.

estate officer Philip A. Trussel also contacted the operators of the various shopping centers used for gathering points, securing permission for the bus operation.

The Sloan School parking lot was the staging area for buses at the Institute. Working there were the chief dispatchers, James J. Culliton, assistant to the vice president for administration and personnel, and William H. Combs of Physical Plant. They were assisted in maneuvering the buses by Alber Sarchioni, the parking attendant at the Sloan lot

At 12:30pm Monday there was a meeting of all the field coordinators and others involved in the bus-lift. MIT Chancellor Paul E. Gray, Provost Walter A. Rosenblith, and Vice President John M. Wynne and Claudia Liebesny of personnel services were among

those attending.

It was decided at the meeting to run the service again on Tuesday, no matter what Governor Dukakis

announced about the driving ban at his 3pm news conference.

Also at the meeting was the MIT Beaver who had been on hand to greet bus riders at the Sloan lot and who passed out questionnaires developed by the Planning Office to riders Monday night. Inside the costume was Carl W. Hagge, the Physical Plant Department's environmental engineer.

Tuesday, during the meeting of the Academic Council, Vice President Wynne said the bus-lift had helped about 20 per cent of MIT's Cambridge work force.

After the meeting, Vice President Simonides said Chancellor Gray will ask a small group to follow up the bus experiment with a study of the feasibilty of providing a permanent service with a per-ride charge.

The bus-lift cost about \$2,000 each day, a figure that works out to about \$1 per person per ride.

Tech Talk, February 15, 1978, Page 3



Because of the storm, the Tech Talk staff was unable to collect and process material for the Institute Calendar this week. Those interested in specific activities are asked to call the department or sponsoring agency for particulars. The calendar will resume next week. It will cover the period February 22 through March 5. Please send entries to Marsha McMahon, Rm. 7-102, by noon Friday, Feb. 17.

Alive and Well

(Continued from page 1).

crews at MacGregor House, Baker House and Walker Memorial turned out to get food cooked and served to fellow students and to the weary Physical Plant crews.

On Tuesday afternoon came MIT's only serious storm incident. A former student living at a West Campus fraternity house suffered serious injuries in a fall from a fourth floor balcony at the house into a snowdrift. Campus Patrol officers and ambulance attendants fought massive snowdrifts to reach him and get him to Cambridge City Hospital where he underwent surgery that night.

By Wednesday, the storm was over but eastern Massachusetts was under a strict emergency ban against any kind of driving and personnel already here faced more days and nights before they could receive permission to return home.

Physical Plant began cleanup operations on Wednesday, cutting lanes, also, along surrounding city streets at the request of Cambridge.

In the dormitories, boredom became an enemy. Student groups began fanning out through Cambridge seeking ways to be of assistance to residents. One group helped dig pathways to the Salvation Army building near Central Square so that facility could operate as a relief shelter.

It wasn't until Friday that some athletic facilities and some library facilities could be opened to offer students some respite. The MIT Coop was opened on Saturday.

Also Friday, the Technology Community Association in col-laboration with the Red Cross organized a bloodmobile at the Student Center in response to urgent appeals being sent out by Boston area hospitals. The MIT drive continued on Monday and all told collected nearly 400 pints of blood.

The blood drive was aided in no small way by the student newspaper, The Tech. An issue had been scheduled fc printing Monday night for distr bution Tuesday. Students editors, using cross country skis, manage to get that issue to their printer i hard-hit Revere, Mass., Thursda morning and distributed issue Thursday afternoon, the fi st newspaper to appear on can .pus since the storm. Meantime, the editors managed to get their Friday issue-advertising the blood drive, for one thingprinted on schedule Thursday night and distributed to the Institute Friday morning.

The Institute re-opened officially at midnight Sunday, Feb. 12, but with emergency driving bans still on in the greater Boston area, Institute officials, many working from their homes, organized a shuttle bus service from outlying pickup points to assist MIT people in reaching the Institute Monday morning. It ran again Tuesday, Feb. 14, as the region groped back toward normality.

Registration for the spring term had been held Monday, Feb. 6, and classes had been scheduled to start on Tuesday, Feb. 7. The storm cancelled classes for the entire week, however, and they did not begin until Monday, Feb. 13.

"On behalf of the administration, the faculty, the staff, the employees and the student body, I want to extend to all the peopleemployees and students alikewho helped pull the Institute through this emergency our sincere gratitude and appreciation," Chancellor Paul E. Gray said. 'They were simply magnificent. They performed countless acts of kindness and dedication and I want them all to know how much all of us appreciate what they have done. They demonstrated a spirit that makes us all proud."

uition Increase Set

(Continued from page 1)

graduates."

Dr. Gray said that unless inflation fell back to one to two per cent a year, "which we used to think was normal," annual tuition increases will be inevitable in the foreseeable future.

Dr. Gray said that while the \$4,700 tuition will be among the highest in the nation, it will be essentially equal to that at other major universities, particularly those in the east. MIT traditionally announces increases early, primarily to enable students and their families time to plan for the coming year.

Moreover, Dr. Gray said, costs of operating MIT's School of Engineering will increase significantly in the coming year, the cumulative

result of unprecedented numbers of students seeking to major in various engineering disciplines, presumably because graduates in these fields are enjoying great demand in the present-day job market. Undergraduate engineering enrollments have increased more than a third-from 1,250 to 2,000-over the past five years and graduate enrollments have gone from 1,500 to 1,800, he said. The result is that the Institute has had to add faculty and staff to accommodate the larger numbers.

Dr. Gray said MIT undergraduate students do not choose a major field of concentration until the sophomore or junior years and traditionally the Institute has imposed no numerical limit on their

storm. Just before leaving the

parking lot at 4pm Mr. Holmes re-

duced the air pressure in the tires

of his 1966 Pontiac for better trac-

tion, but the going was very slow.

By 10pm he had gotten only to Ded-

ham. There the road was blocked

by a tractor-trailer truck. Mr.

Holmes knew he could go no fur-

No stranger to survival tech-

niques because of his 18 years as

Whitman's civil defense director,

Mr. Holmes wrapped the rubber

floor mats around himself to

preserve body heat. That's how he

discovered the malted milk ball, a

by now fuzzy survivor of a summer

ther that night.

Dined on Malted Milk Ball

Lincoln Man A seven-month-old malted milk ball and a handful of snow-that was Harry Holmes' dinner the night of Feb. 6.

Mr. Holmes, a satellite component procurement specialist and quality controller for Lincoln Laboratory's Group 68, was one of the hundreds of drivers who spent the night of the big storm in their cars on Route 128. The Feb. 13 issue of the Boston Globe told his story under a headline that read "Some scary moments stranded on

The 49-year-old resident of Whitman, a Plymouth County town 41 miles south of Lincoln Laboratory, has been making the trip for 25 years. He knows what to do in a

He polished it up and polished it off, then had a snowball for a chaser. Every half hour he started

the car and let it run for four or five minutes to maintain heat. When he started it at 4:30am, there was a blinding flash of light. "I thought the car had caught fire. Then I realized it was lightning. There were several flashes.

When daylight came he climbed out of the window and made his way to the Atlas Oil Company. There he called home and discovered that his daughter, Lynn, whom he picks up on the way home, had been offered a ride by a friend whose truck also had been abandoned on the highway. She was three miles away at a warehouse. Mr. Holmes walked there the next day, Wednesday. They got a ride to the home of Lynn's friend Thursday.

FIRE ENGINES from Cambridge form a backdrop for a lonely cross country skier as he makes his way across Briggs Field at MIT following last week's

storm. Firemen on Vassar St. were clearing areas around fire hydrants. Many at MIT found skiing the only way to get around. -Photo by Calvin Campbell

Placement **Postponements**

Students who missed scheduled placement interviews last week because of the snow should check with the Career Planning and Placement Office, Rm. 12-170, to see if the interviews are being rescheduled.

Many companies are either rescheduling their visits or making other arrangements to get in touch with students who planned to see them. All companies will receive the resumes of students who were on their schedule.

Engineering Internship Orientation

An orientation lecture for School of Engineering sophomores interested in the Engineering Internship Program will be held at 3:30pm Wednesday, Feb. 22, in Rm. 10-250.

The new program combines traditional on-campus academic programs with off-campus work experience in industry and government. Students normally enter the program in the summer following their sophomore year.

Second-year students in good standing in the School of Engineering are eligible to apply for the program and, if selected by a participating company during the oncampus interview process, will participate by registering in the appropriate departmental pro-

The program consists of three work assignments at the same firm or government agency. There are two undergraduate work assignments of three months duration each-one after the second year at MIT and one after the third year. During the first term of their fourth year students apply to the department for admission into the graduate program. If accepted, there is one additional sevenmonth work assignment after the fourth year.

Additional information can be obtained from Professor Joseph M. Sussman, associate dean for educational programs, School of Engineering, Rm. 3-282, Ext. 3-3282, or from John R. Martuccelli, director, Engineering Internship Program, Rm. 1-206, Ext. 3-3294.

Faculty Meeting to Decide How to Make Up Class Time

regular monthly meeting Wednes-day (Feb. 15) how MIT will make up for the four class days lost to last week's blizzard.

Chancellor Paul E. Gray and Faculty Chairman Robert I. Hulsizer, Jr., are expected to propose to the faculty that the four days be made up by holding classes on what were to have been two-day class holidays on Washington's Birthday, Monday and Tuesday, Feb. 20 and 21, and on Patriot's Day, Monday and Tuesday, April 17 and 18.

MIT students registered for classes for the spring term Monday, Feb. 6, and were to have started their classes the following day, Tuesday, Feb. 7.

The Institute closed at 3:30pm Monday as the worst blizzard in this century began to blow through the northeast, virtually paralyzing the entire region. The storm and its aftermath kept the Institute closed from Tuesday through Friday, Feb. 7-10. Classes for the new term

began Monday morning, Feb. 13. Chancellor Gray and Professor Hulsizer said that before the faculty meeting Wednesday they planned to discuss the holiday cancellation proposal with the Institute's faculty-student Committee on Educational Policy, the facultystudent Committee on Graduate School Policy, and with the Institute's Academic Council, made up primarily of deans and vice presi-

"It is clear the time must be made up," Chancellor Gray said. We have lost a twelfth of the term and that is too large a piece to be ignored."

Cancellation of the holidays, he said, is likely to impose the least hardships on students and faculty alike. Alternatives-cancellation of spring vacation, extension of the term into the first week of Juneall would interfere excessively with student and faculty needs and

"The spring vacation is an essential element in the academic pace for both students and faculty and probably should not be sacrificed except as a last resort," Chancellor Gray said. "Many plans-student job commitments, travel, facilities reservations, summer session-have already been organized around the term ending the last week in May and Commencement being held on June 5."

If the faculty approves using the two holidays to make up the classes, Chancellor Gray said only those personnel whose presence the departments determine is essential to keeping the Institute open and supporting the teaching process would be asked to work on the two Mondays which are legal holidays-Monday, Feb. 20, and Monday, April 17.

Chancellor Gray pointed out that the two Tuesdays included in the make up period, Tuesday, Feb. 21, and Tuesday, April 18, while they were to have been class holidays, are nevertheless regular work days for MIT as a whole.

Meantime, Registrar Warren Wells said the blizzard likely will delay by one week the awarding of February degrees. The faculty, at its meeting Wednesday, will be

The MIT faculty will decide at its asked to authorize the faculty officers and the dean of the graduate school to approve the February degree lists. That would permit the awarding of those degrees immediately following the processing of final grades-an operation delayed by the storm-and avoid the necessity of waiting for the lists to be approved at the March faculty meeting.

The Registrar also announced that the spring term add date-the last date on which students may add subjects to their academic schedules-has been extended from March 10 to March 17 because of time lost to the storm. The drop date-the last date on which students may drop subjects—will remain unchanged, April 28.

CEP Plans Motion

The MIT Committee on Educational Policy Tuesday reviewed the proposal of the Chancellor and the Chairman of the Faculty and decided to introduce its own motion before Wednesday's faculty meeting. The text of the motion to be introduced by CEP is as follows:

"Whereas, subjects taught in the Spring Term, 1978, should cover a full term's work as initially planned and, whereas, classes on Feb. 7, 8, 9 and 10 were cancelled because of the snow emergency, it is moved that: Classes will be held on Monday and Tuesday, Feb. 20 and 21, following the usual Monday and Tuesday schedules. No tests or examinations will be held on Feb. 20 and 21. No reports, problem sets or written assignments or exercises may fall due on those days. It is recognized that individual departments and teachers may need to make additional special arrangements to cover completely the full term's work. It is also recognized that some faculty and students may find times alternative to Feb. 20 and 21 to make up lost work."

Met Tickets

The Technology Community Association ticket service will be able to obtain priority tickets for the Boston performances of the New York Metropolitan Opera, April 24-29, 1978.

Tickets ordered through TCA before February 27 will be handled by the Met before individual ticket orders. Information on prices and dates of specific performances is available from Debbie Morris in Room 450 of the MIT Student Center, x3-4885.

Metropolitan Opera performances at Hynes Auditorium will include Thais, Cavalleria Rusticana, Pagliacci, Boris Godunov, La Favorita, Rigoletto, Don Giovanni, and Madama Butterfly.

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Student Workers Staffed Dining Halls During Storm

(Continued from page 1)

"I couldn't have gotten more cooperation from my own family," he said. "It was just 100 per cent."

At Walker and at Baker House, the part-time student help took complete charge of food operations for a time when supervisors and full-time workers were unable to get to the Institute.

"I was snowbound at home Tuesday and the students cooked the meals themselves," said Patrick J. Frazier, the food production manager at Walker.

Frazier made it to the Institute on Wednesday from his home in Brookline (he walked to Kenmore Square) and from then through Friday he prepared lunches and dinners while the students continued to prepare breakfasts.

Frazier, who stayed at a friend's house in Cambridge during the week, said that his student staff numbered between 10 and 15, working under the direction of Captains Alan P. Koretsky, a senior in chemistry from Flushing, N.Y., and Julie A. Montanari, a senior in mathematics from Ridgefield, Conn.

"The students were a tremendous help," he concluded. "On Tuesday, they ran a regular dinner menu with three entrees. It was interesting."

Walker normally serves between 200 and 300 students at breakfast, between 1,000 and 1,200 people at lunch, about half of them employees, and 400 to 500 students at dinner.

At Baker House, about 25 student food workers took charge of meal preparation for two and one-half days in the absence of Beth L. Tufts, the unit manager and food production supervisor, who was snowed in at her home in Billerica.

Ms. Tufts was in touch with the students, to give them advice, as was S. Edward Leonard, Jr., food services general manager.

"The students did a bang-up job from Tuesday, when they had higher than our usual count of 250 because of cash sales and overflow from the Student Center, which wasn't open, right through breakfast on Thursday," she said. At that point, Baker House ran out of food supplies and the contract students there shifted to other dining

Two students at Baker House who were particularly helpful, Ms. Tufts said, were her head captain, Nivo Rovedo, a senior in electrical engineering and computer science from New York City, and Arthur M. Wright, a senior in civil engineering from Puyallup, Wash.

At MacGregor House, the unit manager, Principe, sent his fulltime staff home early on Monday to beat the storm and then stayed on through the week (he used a room at MacGregor) to direct a staff of about 20-25 student food service workers.

"If I didn't have all these students with me, I would have been up the creek," he said. Principe said he did most of the cooking, and that he and his helpers fed about 200 students each meal, plus some of the maintenance workers on campus. Principe finally left for his Jamaica Plain home Friday afternoon and came back Sunday afternoon.

Principe said that cooperation from Baker House students even extended to the eaters

"Because food supplies were getting short, I asked the students not to take seconds," he explained. "Everyone cooperated. Everyone tightened his belt."

The captain of the MacGregor House student staff is Paul J. Wilcynski, a senior in architecture from Ithaca, N.Y. Others mentioned by Principe included Paul A. LaGace, a senior in aeronautics and astronautics from Lewiston, Me.; James D. Paupin, a junior in biology from Greensboro, N.C.; James C. Spohrer, a senior in physics from Hampden Highlands, Me.; and Gerald M. Seixas, a junior in chemistry from Yorktown Heights, N.Y.

The Student Center was closed for meals on Tuesday, and the Lobdell dining hall remained closed on Wednesday and Thursday. However, meals were served at Twenty Chimneys on those days. About 800 persons were fed on Wednesday and more than 600 on Thursday, and when Lobdell reopened on Friday, the number jumped to more than 1,100, according to John T. McNeill, the manager of Student Center food services. The Student Center facilities normally feed about 2,400 persons a day, slightly better than half of them students.

Another source of food at the Student Center throughout the week was the 24-Hour Coffee House, operated by the Student Center

Committee.
McNeill, who lives in Dorchester, walked to MIT on Tuesday (it took him almost three hours) and then stayed with friends in Boston the rest of the week.

His student workers-he has a staff of about 60-did most of the food preparation, although he did the cooking for infirmary patients and employees.

McNeill's student captains are Terry A. Hewett, a senior in electrical engineering and computer science from Ft. Lauderdale, Fla.; John W. Richardson, a senior in electrical engineering and computer science from Portland, Ore.; and Nelson J. Chu, a senior in biology from Brighton, Mass. Also particularly helpful, McNeill said, was Eddie K. Lui, a junior in electrical engineering and computer science from Baltimore, Md.

On Thursday, McNeill and Leonard led a restocking expedition to wholesalers in the Boston area. The Campus Patrol assisted, as did the Department of Physical Plant, which lent Food Services a truck, and a student, Randall E. Fahey, a junior in electrical engineering and computer science, who picked up some of the meat supplies in his four-wheel drive vehicle.

Harmon E. Brammer, director of Housing and Food Services, praised both the student staffs and the supervisory personnel for their efforts during the week. "Despite all the problems, they made it work, and much better than I expected, quite frankly," he said. Eating was one of the diversions

for dormitory students during the snow siege, but the students managed to come up with a number of ways to pass the time.

Normally, they might have used the extra time to catch up on their studies, but this wasn't the case last week because classes for the second term had yet to begin.

At Baker House, about 60 residents volunteered their services to the city and the National Guard. One group went to the Salvation Army Center on Massachusetts Avenue on a shoveling detail while



THOMAS F. MCATEER, a staff still in effect.

Liederkreis Postponed

The concert by the vocal quartet Liederkreis, which was originally scheduled for Saturday, Jan. 28, has been postponed until Sunday, April 30, at 3pm in Kresge Auditorium. The postponement is due to the illness of one of the per-

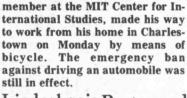
others knocked on doors and helped out where they could.

Some Baker students took to cross-country skis for exercise; others formed a disco dancing class and then tried out their new skills at the Hyatt Regency Hotel Thursday night. There were also, one resident reported, "about 120 backgammon games a day.

Residents at East Campus were reported to have dug a 15-foot tunnel through a drift and, at Burton House, students seemed to rely heavily on poker games to pass the time, one resident re-

There were even a few students who jumped nude into snowdrifts.

Why did they do that? "To prove that you can have a good time in the snow," was one answer.



The division is headed by Dr. and Bldg. 37. Long Shifts Marked Care At Clinical Research Center Twelve-hour shifts, nurses who

Workers' Dedication Kept

Lab Animals Alive and Well

telephone.

Some 13,000 laboratory animals—

mice, rats, guinea pigs, rabbits,

monkeys, and a few cats and

dogs-at MIT survived last week's

terrible blizzard and paralyzing

aftermath because workers in the

Medical Department's Division of

Laboratory Animal Medicine

waded for miles through hip-deep

snow drifts to see that the animals

Three made it in on the worst

day-Tuesday-to provide food

and water for the animals. Among

them was the division supervisor,

R. Winslow Poor, who, since he lives close by MIT in Cambridge,

minimized his own arrival when

compared to the Tuesday achieve-

ments of two division employees-

Leslie Wyche who lives near Fresh

Pond Reservoir in Cambridge and

Brad Roberts who lives in Boston

that snow and wind Tuesday,'

Poor said. "I don't know how they

did it. Brad had to walk five miles

one way to get here and he did it

walk all those miles, but the re-

markable thing is that they arrived

"Not only did the two of them

"They both walked through all

near the Brookline town line.

every day of the week.

for work on time."

were cared for.

James G. Fox who was trapped in

his home in Concord, but stayed in

continual touch with operations by

By Wednesday, other division

employees began arriving-most

by walking-to help tend to the

animals. Among those were

Richard Harrington of Somerville,

Leotta Burnett of Cambridge,

Ralph Saraceni and Carl Patalano,

both of Arlington, and Huot Por of

Brookline and, by Thursday,

Harold Bartlett and John Di Fran-

Poor said those who used cars

and even some of those who walked

encountered police blockades

along the way and had to explain

their mission. Not all officers

thought that keeping laboratory

animals alive and cared for was

'Several of our people were ad-

vised to forget it and go back

home," Poor said. "Happily, they

didn't take the advice. The animals

survived because of their dedica-

The division maintains animals

in five different locations around

MIT-at the newly-completed In-

terim Laboratory Animal Facility

on Vassar St. and in Bldgs. 16/56,

Bldgs. E18/E17, Bldgs. E10/E20

cesco, both of Burlington.

particularly important.

tion and interest.'

gave up their days off to cover for other nurses who could not get in, and one nurse who spent two hours on cross country skis to reach work were storm week highlights at the MIT Clinical Research Center in Bldg. E18.

When the storm struck, the Center had 11 patients on its service. Although allowed to travel by virtue of their occupation, several members of the nursing staff were simply trapped in their homes and their shifts had to be covered by those who could get in.

Among those who put in long hours keeping the Center staffed were Mary Graham of South Boston, Ruth Beecher of Somerville, Lee Davis of Cambridge, Patricia Bottomly of Newton, Martha Duffy of Lowell and Barbara Donnelly, who used her cross country skis to reach the Center from her home in Belmont.

Physicians who kept the Center covered during the emergency were Dr. Kathleen Motil and Dr. Stephen Phinney. Dr. John F. Burke, Center director and chief of staff at the Shriners' Burn Institute in Boston, remained at his Boston post, but stayed in touch with the physicians and nurses at the Center by telephone.

Equally important was food.

Two diet aides-America Crisostomo of Cambridge and Yolanda Escrich of Malden-were on duty when the storm hit and remained at the Center through Wednesday when the Center dietician, Carol Batrus of Brookline, and diet aide Patricia Marcinowski of Medford-could get in to relieve them.

While ample supplies of most food items needed by the Center were already on hand when the storm arrived, several nurses had to stop and pick up some items as they came in. Dr. Phinney arrived at one point with a knapsack packed with food.

One of the Center's 11 patients had been admitted early Monday before the storm began and was scheduled to leave on Wednesday. He stayed until Thursday.

'One look out the window," a nurse said, "and he didn't seem too unhappy about staying an extra

Stitchery Classes Set to Begin

Three courses in needlework, ranging from beginning crewel to creative stitchery, will be taught by Priscilla Gray in the spring

Beginning crewel will meet in the Emma Rogers Room on Tuesdays from 11:30 to 12:30, beginning Tuesday, March 7. Crewel II, for those with some experience, also starts on Tuesday, March 7, and will meet Tuesdays from 12:30 to 1:30 in the Emma Rogers Room. Both courses run for eight weeks.

The classes were rescheduled from the original starting date of Tuesday, Feb. 28.

For information about class content or supplies, call Mrs. Gray at 729-4093 or Nancy Hollomon at 734-4763.

Special one-day programs will be held Tuesday, Mar. 14, and Monday, Apr. 10, from 10am to 3pm. March 14 will be an embroiderer's open house where everyone is invited to see finished work and work in progress by current MIT embroidery students.

Visitors are invited to bring their own work and embroider there as long as they wish.

Monday, Apr. 10, a one-day workshop in blackwork will be taught by Mrs. Gray. Blackwork is delicate style of embroidery using a single color of thread on linen. The workshop will meet from 10:00 to 3:00 with a break for lunch. Advance registration is necessary.



MOUNTAINS OF SNOW dwarf this sports car in one of MIT's parking lots following last week's crippling blizzard. Physical Plant crews were not able to even begin clearing walks, driveways and parking lots until two days after the storm hit.

Charles Harbutt To Lecture Here

Charles Harbutt, an internationally known photojournalist whose photographs have appeared in Newsweek, Life, and National Geographic, will discuss the work of French photographer Atget in a lecture Thursday, Feb. 16 at 7:30pm at the MIT Creative Photography Gallery, W31-310.

This is the first in a series of lectures by Mr. Harbutt analyzing major figures and trends in photography since the turn of the century. Mr. Harbutt is president of Magnum, a world-wide photographic cooperative, and he is currently visiting artist in the MIT Creative Photography Laboratory.

Atget was an extremely influential turn-of-the-century photographer who formulated many of the questions that have been explored by twentieth century photographers. Mr. Harbutt's lecture will include the first showing in the United States of recentlydiscovered photographs by Atget.

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Ads are limited to one per person per issue and and are limited to one per person per issue and may not be repeated in successive issues. All ads must be accompanied by full name and Institute extension. Persons who have no extensions or who wish to list only home telephones may submit ads by coming in person to the Tech Talk office, Rm 7-100 and person to the Tech Talk office, Rm 102, and presenting Institute identification. Ads may be telephoned to x3-3270 or mailed to Rm 7-102. Deadline is noon Friday before publicatio

For Sale, Etc.

best. Ken x3-7836.

Sears Orthopedic, qu sz matt, bx sprg & frm, $2\frac{1}{2}$ yrs old, \$180 or best. x5-6357 Dorm.

Teac A-330S open reel tape deck, $10\frac{1}{2}$ " rl, $\frac{1}{4}$ trck, $3\frac{3}{4}$, $7\frac{1}{2}$ ips. gd cond, \$400. Call x5-6668 Dorm. HP-25, 2 yrs old, exc cond, brn nw battery pck, \$70

Head 360 skis, 190 cm; Nevada Look bindgs, toe; Geze heel, Henke boots, W sz 9; Scott poles. Judy x3-8020.

Sears Kenmore console mod sewing mach, lk nw, upright wood cab; mech exc, \$75. Call 738-0186. Pr snows, H78-15 mounted on rims, lk nw, \$40.

Tubes mny gd & used, must sell, best. Call x5-7346

Sng B; lg dresser; K set, 4 chairs; couch & match chair; assort tbles; cab; suit cases. Call 963-6211.

Ly country must sell, beaut sofa in 3 pcs. 2 corner chairs & middle, also be used sep, brown covelvet, yr old, asking \$200, org \$300. Call 494-8807 Typewriter repr by skilled G, vry reas rates. Call

Curved Love seat, off white, \$100. Call x3-5915.

Lab coat, sz 42, cot blue, fl lgth, slight use, \$10. salie x8-1401 Draper

Bache downhill ski boots, sz 12 M, used 2 seas, exc cond, \$35. x3-4944.

Olivetti Lexicon typwrtr, all elec, ball, ctrdg rib, 6/mo old, mint cond, ask \$250. Call 494-8113.

Pr Xcountry ski boots, br nw, unused, sz 48, \$20 or est. Call x3-3706

Nr Coolidge corner, Cam, garage park. Dave x3-

Downhill ski pkg: Koslach boots sz 9, Tyrol boot rack, Paul Bourett RE 100 skis 198cm, Solomon binding & poles, \$75; pr F78-14 Dunlop snows, best. Tim x3-6458.

Olympus Zuiko 50mm F1.8 lens, br nw, nv used, \$60. Monty x3-1541, lv msg.

San Giorio boom ski boots sz 10, \$35. Call x5-8312

Pr Continental 165-13 rad, dynam bal, mntd on Datsun rms, exc cond, \$80; pr Toyota rms, \$20. Deena x3-4378.

Hexcel Comp skis, 200 cm, used 2 seas, gd cond, \$60; Marker M4/M44 bindgs, best over \$40. Doug

x8-3584 Draper. Yamaha YP-D6, drt drv trntbl, no crtdg, 6/mo old, exc cond, org pckng mater & manual, \$200. Call Mike, 267-5921 day or eves.

Guitar, beaut Hofner 12 strg w/case & demountbl de Armond pkup, \$90; reg 8 mm film editor, \$10; fondue set, used once, \$5. Ralph x3-6802.

Compct stereo, almst nw, gd sound, BSR auto 12" trntbl, 8 trck tapeplayer, 2 spkrs, 2/4 spkr terminal. Call x3-6726.

Guitar, 12 strg, FT160, $1\,^{1}\!\!/_{2}$ yr old, hdly used, \$90, org \$140. Dave x3-2148.

Leitz IC Focmat enlg, the best, \$650 or best. Paul

223-5385 days.

Integral sys mod 10, preamp, \$120. Call x5-9338 Dorm.

OHM-C spkrs 4 yrs old, \$150 or best. Mike x3-7010.

IBM Exec C typwtr; prec bal scale 65 mg fl scale \$30; sm elec pizza oven, \$35; Seeburg stereo LP selec-trntbl; Tektronix scope camera C30 & 500 ser plg-ins. Alan x3-7512.

Dokorder MK-610 csstt deck, exc perf, mint cond, mst sell, org \$275, now \$200. Altec Lansing 1 spkrs, less 6/mo old, clean sound, mst sell, org \$200/pr. now \$150; Cerwin-Vega 24 spks, dryrs mint cond, cab scrtch, org \$300/pr, now \$250/pr. Elliot, kp try 484-1654.

Pioneer: SX939 recvr, CS901A spks, CTF7171 csstt deck, dual chngr, exc cond, \$650. Call x3-1492. Skis, 5'6" tl, \$8. Call x3-1550.

Gibson J-40 acous guitar, exc cond, hard shell cs, \$200. Anna x3-5093.

Quad/stereo sys, rcvr, 4 spks, trntbl, 2/4 chnnl, 8 trk player. Vry gd cond \$170 nego. David x5-8421

M Downhill ski jack lg, blue, \$35; SCM portbl manu typwtr, exc cond, \$50. Call x3-3256.

Danish wint arm chair, \$30; Raichle W sz 61/2M ski boots, nvr worn w/carrier, \$60 nw, best; blender, toaster oven, best. Call x3-4237.

Kay ½ sz cello, beg instr, exc cond, ask \$300, wl bargain. Lorie x3-4381.

Turkoman Bokhara rug 9x7, vry fine; Turkish Kilim 10x6, exc cond. Call x3-3148,

Stereo Marantz mod 6300, drct drv trntbl, yr old, \$175, cheap; Pioneer SA-9100 amp 60W/chnl & TX-9100 trntbl, \$450 takes both. Call x7421 Linc.

Kenwood KR-6340 quad rcvr, less wk yng, 4 x 40W or 2 x 80, org \$749, wl lose \$100, \$649; top of line trntbl, w/dust cvr & Shure spec order V32 ellip crtdg \$199. Farzad 494-9213.

'68 Buick, 33K, 6 cyl, stick, damaged, best. Call

'68 VW squareback, 90K, exc mech cond, vry little tires, sheks, brks & bttry, \$774 or best. Call Mary 492-5800 days.

'73 Ply Satellite 4 dr Sedan, air cond, pw st & br, exc bdy mech, \$1450. Call 784-5327 eve.

'69 MGB hdtop, inter restored w/nw 6 cyc 3 lit eng, carbur rebuilt, 28/20 mpg, nw compns incl brks, tyres, clutch, batt, shck, water pmp & altn, must sell shortly, ask \$2,495. Mr. Sutton 254-7110. '70 Datsun 510B S/W, AC, AM/FM, \$1000. Call

'71 Dodge Wagon, V8, 318 ci, 100K, vy gd cond, 16/20 mpg, cty/hghway, \$900 or best. Call x183-'71 Ford Torino Wagon, exc motor, nd trans wk, nds left rear leaf spring, \$300. Call Gene x4029

'71 Toyota Corolla sta wagon, manu trans, 73K, 5 gd tires & stud snows, recent valve job, \$850. John

'72 Vega hatchbk, 4 sp, manu, 53K, wl main, \$550. Call x5-9494 Dorm.

'73 Ply Fury III, exc bdy & mech cond, auto, pw st & brk. Ismael 494-8877 74 Saab wgn back, 48K, cruise contrl, he

ing mirr, fl mats, \$3200 firm. Call x3-7245. '77 Mercury Monarch, pw st & bk, auto, 25 ci eng, lw mlg, exc cond, reas prc. Call x3-2772.

Housing

Ashdown, sngl Rayail, March 1, Glenn x3-6050.

Arl, lg 6R, fireplace, 1st fl, quiet res area, 3 BR, T, shopping & schl, \$325 unhtd, avail March 1. Call 646-1330.

Back Bay, 2 BR apt, furn, fireplc, dryer, T, \$310/mo incl util. Call x5-8397 Dorm.

Brk apt sublet Mar 1, opt to renw June 1, 3-4BR, 2 B, LR, DR, K, park, T, \$395 heat. Jim x3-1560 or

Campton, NH, 4 BR house, avail Feb schl vac wk & later, gd for ski, (10 mi to Wat Val) & whitewater canoeing, (Mad River in bk yrd). Larry x3584

Lex, 2 BR crtkrs cottage, 7 acre est, lg K, pantry, bath, fireplace, garg, \$450/mo ½ ht & util. Clauda x3-6512.

South End, lv-in, wrk-in, 2500 sq ft, mny windows, \$275/mo incl heat. Call 426-2352.

Lost and Found

Lost: 1 gold pc earring, sm ball on wire, nr Baker & Burton Hall. Sat, 1/28. Call x3-4435.

Found: IPS Reading Rm; before Xmas, pr M leather gloves; wk of 2/23, flannel shirt. Call x3-

Wanted

CB outfit 40 ch, base/mobile, Roddy x7214 Linc. 5 or 10 gal plastic containers for chem disposal. Call x3-1720.

1 used desk, \$30 or less, cond opt. Mr. Browne 661-

Used 4-harness loom & weaving acc. Melissa x3-

Classic Guitar, \$30-50. Call x3-1549.

Ski boots, old style leather dbl, W sz 71/2. Lou x5767 Line.

Bach-Stradivarius, trumpet, B-flat, silver or brass, in gd cond. Call x3-5235.

Find out your own tolerance for milk. Partcpt in nutrition stdy, simple, fun & interst, will pay. For info: Nutr dept x3-3101 or x5-8445 eve.

Request reading tutor, aftnoon, pay nego. Call x3-

Eng/Russian & Eng/Spanish translt nd for 600 wd abstract, immdly, wl pay. Call 625-1064.

Roommates

Arl house, Rmmt wntd, 28+, w/children, T, Tennis, \$60 + util. Please call 646-0781.

Coolidge Corner area, rmmt wnt, 2 F looking fo 3rd, to shr 3BR apt, quiet, tree lined, T. Kathy x3

Inman st apt, 1 person nd to share 4 BR w/3 other stus immed, \$125/mo. Call Emmanuel 661-5629

Carpools

Brk, Coolidge Cr High Sch & Cleveland Crc areas, riders wntd or in between. Call Helen x3-2710 or Bert x8-1255 Draper.

Riders wtd to Daytona Beach, Fla, mid to end of

Lincoln-Camb ride avail. Rachel x3-3171.

Nashua to MIT, 8-4:30 or 5pm. Call x3-2031.

Nd ride from Witman to MIT, 8am-4pm, Call x3-

Parking

Trade West Garage for Albany, Call x3-7205.

Miscellaneous

For Editing. Joan x3-2672.

Heating, air cond, ventilation, insul work to be done. Arthur Dubois 891-7499 aft 4:30pm.

HP-55 nw, \$125. Call x5-9893 Dorm.

String Quartet wntd to play at Sun, Noon Wedding, baroque music mostly, Call 625-9267 eve.

WI type, theses, manu & report, etc, fast & accur, IBM self-correct. Call x3-4528.

Wl type, theses, reports, manu, resumes, etc, accur & effc, IBM Correct Selectric. Lisa x3-7106.

WI type, any kind, IBM Selectric. Debbie x3-4625.

Surplus Property

Contact W.A. Derry, x3-2777, sealed bids to Rm E19-717, Thurs, 16, 12:10pm, '60 Ford Truck F-700 no bdy; '64 GMC Truck, clsd van w/tailgate; '70 Ford Econoline van E-200; '72 Ford station wg.

POSITIONS AVAILABLE

This list includes all non-academic jobs currently This list includes all non-academic joos currently available on the MIT campus. Duplicate lists are posted on the Women's Kiosk in Building 7, outside the offices of the Special Assistant for Women and Work (10-215) and Minority Affairs (10-211), and in the Personnel Office, (E19-239).

Personnel Interviewers will refer any qualified ap-plications on all biweekly jobs as soon as possible after their receipt in Personnel.

Persons who are NOT MIT employees should call the Personnel Office on extension 3-4251.

Information on openings at Lincoln Laboratory (Lexington, Ma.) is available in the Personnel

Employees at the Institute should continue to contact their Personnel Officers to apply for positions for which they feel they qualify

Dick Higham Pat Williams Carolyn Scheer (Secretary — Tertia Perkins)	3-4278 3-1594 3-1595
Virginia Bishop	3-1591
Richard Cerrato	3-4266

Ken Hewitt (Secretary — Paulette Chiles) Sally Hansen Lewis Redding Kathleen Rick 3-4275 3-2928

(Secretary — Jenni Leibman)

Admin, Staff, Staff Writer, for Proposals and Admin. Staff, Staff Writer, for Proposals and Publications in Resource Development to work with three other writers in preparing proposals, publications and correspondence in support of the MIT Leadership Campaign. Demonstrated writing, editing and research skills are necessary as well as a high degree of initiative and ability to work independently and well under severe time constraints. A Bachelor's degree and prior professional writing experience, preferably in a related setting are also required. Knowledge of MIT and of graphic design/production are helpful, A78-5 (2/8)

Sponsored Research Staff, Program Counselor in the Provost's Office, MIT/Wellesley Upward Bound Program to work with adolescents and adults from various backgrounds; counsel inner city high school youths in academic work, college city high school youths in academic work, college, financial aid, personal and career decisions; struc-ture and implement necessary programs, including tutorial, college counseling and career programs. Master's degree in counseling or related field (or equivalent experience and Bachelor's degree) required. Two years experience in counseling inner city youths also required. Mass. driver's license and willingness to live at Wellesley College during 7 week summer residential program necessary. 1975 20 (2018)

Sponsored Research Staff, part-time, temporary, in the Lab for Nuclear Science to prepare material for a new Institute committee planning the growth of computer systems and services: prepare assess-ment of computers at MIT and other universities; administer and coordinate reports and recommendations of the committee. In addition to writing skill, applicant must be knowledgeable about computers. 20 hrs./wk. Temporary through 9/78. R78-29 (2/8).

Sponsored Research Staff, Postdoctoral Scientist, temporary, in the National Magnet Lab to carry out theoretical studies in solid state physics with emphasis on Ramon scattering in semiconductors Ph.D. in theoretical solid state physics with docsearch in field of Rame quired. Temporary 6-12 months. R78-17 (2/1)

Sponsored Research Staff, temporary, in the Lab Sponsored Research Staff, temporary, in the Land for Nuclear Science to do postdoctoral research with a research group in the Center for Theoretical Physics. Applicants must have a Ph.D. in nuclear or particle theoretical physics. Appointment is for one year but may be extended. R78-18, R78-19, R78-20, R78-21, R78-22, R78-28 (2/8).

Sponsored Research Staff, Chief Operator, in the Sponsored Research Staff, Chief Operator, in the Lab for Nuclear Science to operate the accelerator; oversee safety of personnel and equipment; diagnose system and subsystem faults; perform minor repairs. Will also be responsible to start entire facility and produce an electron beam to specifications. A Bachelor's degree in engineering or physics, or equivalent in experience required. R78-2 (1/11).

Exempt. Lieutenant/Supervisor of Training in th Campus Patrol Special Services Division. Will supervise training programs, planning and research, investigations, court cases and other related duties. Will provide assistance to officers in their investigations and court presentations; organize in-service training program including of ficer placement; maintain criminal law and police ocedures library; review with Dept. personner anges in the law affecting department policies procedures library; review with Dept. personned changes in the law affecting department policie. Must have extensive police experience at management level with instructor or lecturer ex perience in police science. Also required is close ex ternal liaison experience with state and local law enforcement agencies, court systems and Mass. Criminal Justice Training Council. E78-4 (2/8).

Exempt. Editor, in the MIT Press to edit manuscripts and prepare them for publication. At least 2 years experience as independent manuscript editor handling medical and technical texts in a publishing house required. E78-5 (2/8).

Exempt, Technical Assistant, in the Lab for Computer Science to assist in the development of digital hardware including high-speed computer communication interfaces and data encryption devices; prepare prototype construction specifica-tions; analyze circuit specifications in block diagram form and produce detailed designs using diagram form and produce detailed designs using standard TTL integrated circuits; prepare detailed logic diagrams; serve as technical liaison for pro-jects. A Bachelor's degree, at least 2 years ex-perience in either research or field service environ-ment required. Familiarity with minicomputers and/or microprocessors and some programming experience is desirable. E78-6 (2/8).

Admin. Asst. V in the Aquatic Research Lab, Civil Engineering Dept. to process all research and staff appointments; provide supervision for temporary employees; purchase lab equipment and supplies; supervise research accounting process; coordinate research activities of faculty and staff; schedule meetings, conferences, progress reporting. In addition will also answer routine phone inquiries; correspond with labs and industry representatives; edit manuscripts and research reports. Editing ex-perience and knowledge of accounting required. Typing skill also required. B78-54 (2/8). Secretary V to the Director of the Nuclear Reactor Lab and the Director of Operations. Will handle a variety of duties including: meeting arrangements, appointments, traver arrangements, respondence and reports and other secretarial activities. Applicant should be able to organize work priorities, sometimes work under pressure, have appointments, travel arrangements, typing of corpriorities, sometimes work under pressure, have maturity, tact and judgement and to provide train-ing and supervision for junior scretarial staff. Ex-cellent general secretarial skills and several years experience required. B78-51 (2/1).

Sr. Secretary V in the School of Humanities and Social Science to arrange and coordinate meetings and appointment schedule; handle and type correspondence; provide information to stude respondence; provide information to students and public re: school programs; arrange travel; file; obtain information pertinent to School functions. Excellent secretarial skills and good organizational skills required. Must be able to exercise good judgment, take initiative and should be resourceful. Must also be able to work independently and in a busy setting. B78-52 (2/1).

Secretary IV for 1 faculty member in the School of Humanities and Social Science to perform usual secretarial duties: type; file; schedule meetings; arrange travel; transcribe machine dictation. Will also provide support services to various pro and occasionally provide back-up typing. E lent secretarial skills required, Knowledge of taphone helpful. Extension of this position be June, 1978 is contingent upon continued funding. B78-36 (2/5).

Secretary IV, part-time, to 1 faculty member in the Center for International Studies to handle general office duties: type monographs and manuscripts; reserve hotel rooms for Center visitors; handle publicity for seminars. Excellent typing skills required, 20 hrs./wk. B78-55 (2/8).

Secretary IV, part-time, in the Psychology Department to type correspondence, manuscripts, tables; answer phones; order and pick up supplies, books answer phones; order and pick up supplies, oos and reprints as necessary; coordinate patient ap-pointments; transcribe tapes of patient interviews; tabulate data and do occasional keypunching. Ex-cellent typing skill, ability to work under oc-casional pressure and to handle confidential matters with discretion required. Keypunching ability helpful but not necessary. 25 hrs./wk. B78-49 (2/1).

Secretary IV to 2 faculty members in the Materials Science and Engineering Dept. to type correspondence, manuscripts, proposals, technical papers, requisitions; file; answer phones; arrange travel; schedule meetings and appointments. Technical typing skill and dictaphone skill required. B78-47 (2/1).

Secretary IV. part-time, in the Civil Engineering Dept. to file; answer phones; process invoices; arrange travel; type correspondence, class material and technical and non-technical reports. Excellent typing skill required. 20 hrs./wk. B78-46 (2/1).

Secretary IV to the Director of the Information Processing Service Office to perform general secretarial duties: type letters, technical documents ments, dictation; screen telephone calls and mail ments, dictation; screen telephone calls and mali; set-up and maintain filing system; coordinate and schedule meetings. Will also coordinate public relations for educational courses, demonstrations; work with computer based document preparation systems; prepare reports; prepare minutes of staff meetings. Excellent typing and secretarial ex-perience also required. B78-39 (2/1).

Secretary IV in the MIT Press to type cor-respondence; duplicate manuscripts, send them for review and order reviewers' fees; write proposal rereview and order reviewers fees; write proposal re-jection letters; make preparations for monthly Board meetings; file; assist with administration of contract publishing; maintain accounts; assist editors with manuscripts referrals; act as liaison between editors and Press personnel. Excellent typing and machine dicatation skills required as well as good organizational skills. Ability to work well with people, good English grammar and atten-tion to detail are important. B78-42 (2/1).

Secretary IV to 4 faculty members in the Lab for Nuclear Science to schedule appointments; type correspondence, technical and nontechnical reports; file; arrange travel; set-up and organize meetings; handle mail; handle requests for preprints and reprints. Excellent typing skill and good shorthand skill or ability to take dictation required. B78-50 (2/1).

Secretary IV in the Mechanical Engineering Department to type and occasionally compose cor-respondence from machine dictation or verbal in-struction; maintain records and files; assist with special projects as required. Secretarial experience, special projects as required. Secretain experience, excellent typing and organizational skills and command of English language required. Ability to set priorities, to work independently under pressure and to handle confidential matters with discretion also necessary. B78-48 (2/1).

Secretary IV to 3 faculty members in the Economics Department to type class material, research reports, correspondence, manuscripts oc-casionally containing technical material; answer phones; maintain accounts and petty cash fund; file; assist students as required. Excellent typing skill, ability to work well with a variety of people and under occasional pressure required. B78-43

Secretary III, part-time, temporary, in the Sloan School of Management to support the activities of Management Science faculty member. Good typ-ing skills and pleasant telephone manner are required. Secretarial school training or experience preferred. 15 hrs./wk. (3 afternoons) temporary through 7/78. B78-57 (2/8).

Accounting Asst. V in the Comptroller's Accounting Office to perform internal cost audits; Asst. V in the Comptroller's Acprepare monthly invoices; prepare fiscal reports prepare monthly invoices; prepare inscar reports, assist in cash flow and forecast functions. General business background with 2-3 years of applied accounting experience and 2 years college or business school education required. Must also be able to communicate with Departmental administrators. B78-60 (2/8).

Accounting Clerk IV in the Graphic Arts Dept. to handle all accounts payable functions, the billing of job and related clerical duties. Accounting or business school graduate, or 3 years of applicable experience required. Must be able to operate calculators and be thoroughly knowledgeable in accounts payable procedures. B77-697.

Accounting Clerk/Secretary III in the Student Ac-counts Office to assist in the preparation of degree list candidates; assist in the review of students financial status; file; maintain office supplies, petty cash; answer questions concerning tuition and fees. Good typing skill and ability to deal with stu-dents in a very busy atmosphere required. B78-61

Sr. Clerk III (part or full time) in the Sloan School of Management's Word Processing Center to type technical manuscripts, letters and lists on the DEC System 102. Good typing skill, ability to set priorities, deal with abstractions and work well with a variety of people required. High school graduation also required. Sharing of this position by 2 part-time people is preferred. B78-56 (2/8).

Sr. Clerk III in the National Magnet Lab to prepare and approve invoices; check statements against orders; analyze expenditures and commitments; keep record of purchase orders. Will also type correspondence, purchase and change orders; answer telephones; file. Good typing and organizational skill as well as facility with figures required. High school graduation and office experience also required. B78-41 (2/1).

r. Clerk III in the Nutrition and Food Science Dept. to type memos, forms, proposals, budgets; process petty cash receipts; bill zerox and other charges; answer phones; file; zerox; deliver and pick-up proposals. Good typing skill and ability to work with figures required. High school graduation and some experience also required. B78-44 (2/1).

Hourly, Cook, in the Endicott House to cook breakfast for approximately 28 people; assist Chef with lunches and/or dinners. Wash own pots and pans and clean kitchen after meals. Expertise in preparing and presenting a variety of breakfast food, as well as ability to prepare large quantities of hors d'oeuvres. Must also have own transportation, be punctual and reliable. Knowledge of baking and dessert preparation preferred. 40 hrs./wk.irregular schedule. H78-19 (2/8).

Hourly, Waiter/Waitress, part-time, at Endicott House (Dedham, Ma) to set up tables; serve food and beverages; keep lounge and conference areas neat and orderly; keep dining area and pantry clean; polish silver, position requires some perience as waiter/waitress. Normal work hours; 6:30 A.M. 10:30 A.M. 6 days/wk. May asked to work during lunches and dinne transportation necessary. H77-170 (10/5).

The following positions were still available at Tech Talk deadline. The date following each position is the date of the most recent Tech Talk issue in which the position was described.

ADMINISTRATIVE STAFF:

A77-3, Systems Programmer, Info. Processing erv. (2/16)

A77-3, Systems A78-3, Serv. (2/16)
A77-62, Industrial Liaison Officer, Ind. Liaison Off. (12/14)
A77-73, Sr. Appl. Analyst, Off. of Facilities Mngm*t. Syst. (11/16)
A77-79, Applications Prog., Info. Proc. Serv. (12/14)

A77-80, Manager, Info. Proc. Serv. (12/14) A77-82, Associate Director, Sloan School (12/14) A77-83, Dir. of Personnel Relations, Personnel Relations (12/14) A77-84, Admissions Officer, Admissions Off.

A77-86, Systems Prog. II, Info. Proc. Serv. (1/11) A77-87, Systems Prog. II, Info. Proc. Serv. (1/11) A77-89, Proj. Architect, Phys. Plant (1/11) A77-91, Sr. Prog. Analyst, Info. Proc. Serv.

A77-92, Editor/Writer, News Office (1/11) A78-1, Dir. of Purchasing & Stores, Purch

A78-3, Asst. Dir., Office of Minority Ed. (2/1)

BIWEEKLY:

B77-518, Sec. III-IV, Mech. Eng. (10/5) B77-590, Sec. IV, Hlth. Sci. & Tech. Div. (1/4) B77-610, Sec. IV, Linguistics (2/1) B77-611, Sec. IV, Elec. Systems Lab. (11/2) B77-647, Sec. IV, Treasurer of the Corp. (11/2) B77-655, Sec. IV, Chemical Eng. (11/16) B77-667, Clk./Typist III, Resource Planning

B77-671, Admin. Asst. V, National Magnet Lab.

B77-672, Sec. IV, Nutrition & Food Sci. (12/7) B77-679, Sec. V, Nuclear Sci. (12/7) B77-688, Sr. Clk. V, Account Rep. Computing B77-696, Sec. IV, Personnel Office (12/7) B77-708, Sec. IV, Architecture Dept. (12/14)

B77-712, Tech. Asst. V, Alumni Assoc. (12/14) B77-716, Accounting Asst. V, Comptroller's Ac ctg. Off. (12/14)
B77-729, Sec. IV, Earth & Planetary Sci. (1/4)
B77-731, Account Rep. V, Info. Proc. Serv. (1/4)
B77-737, Sec. IV. Ctr. for Trans. Studies (1/11)

B77-737, Sec. IV, Ctr. for Trans. Studies (1/11) B77-742, Sec. III, Admin. Comp. Serv. (1/11) B77-743, Sec. IV, Earth & Planetary Sci. (1/11) B77-747, Sec. IV, Political Sci. (1/11) B77-753, Sec. IV, Tech. Adaptation Prog. (1/11) B77-755, Sec. IV, Earth & Planetary Sci. (1/11) B77-766, Sr. Clk. III, MIT Press (1/11) B77-766, Sec. IV, Sec. School (1/11)

B77-768, Sec. IV, Sloan School (1/T1) B77-770, Sec. III-IV, Lab. for Comp. Sci. (1/11) B77-772, Sec. IV, Provost's Office (1/11) B78-2, Clk/Sec. III-IV, Ctr. for Cancer Res.

/25) B78-4, Sec. IV, Civil Eng. (1/18) B78-5, EDP Proj. Devel. Lib. V, Admin. Comp Serv. (1/18) B78-8, Sec. IV, Admissions (1/18)
B78-12, Sec. III-IV, Off. of Spons. Programs

B78-13, Acctg. Asst. V, Comptroller's Benefit

Off. (1/25)
B78-14, Sr. Clk. IV, Admissions Off. (1/25)
B78-16, Sr. Clk. III, Div. of Lab. Animal
Medicine (1/25)
B78-19, Sec. IV, Mat. Sci. & Eng. (1/25)
B78-25, Sec. III-IV, Urban Studies & Planning

B78-27, Admin. Asst. V, Civil Eng. (1/25) B78-28, Sec. IV, Lab. for Nuclear Sci. (2/1 B78-31, Sr. Clk. III-IV, Admin. Computing S

B78-32, Sec. IV, Sloan School (2/1) B78-33, Sec. IV, Nutrition & Food Sci. (2/1) B78-35, Sr. Clk. IV, Medical (2/1) B78-37, Sec. III-IV, Office of Minority Education

ACADEMIC STAFF:

CADEMIC STAFF:
C77-23, Mngr. of Financial Serv., Medical (5/25)
C77-36, Social Worker, Medical (10/5)
C77-45, Tech. Asst., Nut. & Food Sci. (12/7)
C77-46, Tech. Inst., Aero/Astro (1/11)
C77-47, Tech. Inst., Biology (1/18)
C78-1, Tech. Inst., Mech. Eng. (1/18)
C78-2, Tech. Inst., Biology (1/25)
C78-3, Tech. Inst., Biology (1/25)

E77:44, Admin. Asst., Nuclear Reactor Lab (1/4)E77-46, Admin. Asst., Comptroller's Acctg. Off.

(10/19) E77-47, Eng. Asst., Aero/Astro (10/19) E77-54, Eng. Asst., Ctr. for Mat. Sci. (12/14) E77-56, Estimator/Scheduler, Physical Plant

E78-1, Unit Coordinator, Medical (1/25) E78-2, Audiologist, Medical (1/25)

H77-89, HVAC Designer/Draftperson, Physical Plant (10/5)

SPONS. RES. STAFF:

H77-137, Tech. A, National Manget Lab. (9/14) H77-195, Drafter, Physical Plant (1/4) H77-198, Elec. Design Drafter, Physical Plant

H77-201, Tech. A, National Magnet Lab. (1/18) H78-12, Animal Technologist, Div. of Lab.

-37, High Energy Physics Res., Bates Linear

Accelerator (3/9) R77-51, Sr. Research Engineer, Energy Lab. R77-53, postdoc. res., Physics, Res. Lab. of Elec.

R77-73, postdoc. res., Physics, Res. Lab. of Elec R77-73, Plasma Physicist, National Magnet

R77-74, Plasma Physicist, National Magnet R77-79, postdoc. res., physics, Lab. for Nuclear Sci. (5/4)

R77-80, postdoc. res., Physics, Lab. for Nuclear (5/4)R77-91, Sr. Accelerator Physicist, Lab. for Nuclear Sci. (5/18) R77-93, Design Engineer, National Magnet Lab.

R77-94, Design Engineer, National Magnet Lab. R77-95, Biophysicist, National Magnet Lab

(5/25) R77-97, Chemical Eng. Energy Lab. (6/1) R77-105, Managing Dir., Energy Lab. (6/12) R77-112, Magnetic field coil design, National Magnet Lab. (6/22) R77-137, Experimental Physicist, Bates Linear Accelerator (8/31)

R77-139, Programmer, Res. Lab. of Elec. (8/31) R77-150, Electromagnetic wave theory research Res. Lab. of Elec. (9/7) R77-153, Reactor Util. and Elec. Sup., Nuc. Reactor Lab. (9/7)

R77-161, Elec. Engineer, Mech. Eng. (9/7) R77-170. Combustion Engineer, Energy Lab.

Page 6, Tech Talk, February 15, 1978



THE GREAT SNOW ARCH. Bexley Hall people used discarded spring sections of cots plus plastic sheets and, of course, snow to make a welcoming snow arch in front of their dormitory. Framed in the arch above is Margie Kieper of Pascagoula, Miss., a junior in architecture.

Dedicated Staff Work Made Infirmary Run Smoothly

By JOANNE MILLER Staff Writer

While most of the Institute community was sequested at home last week, the Infirmary carried on in normal fashion, thanks to indefatigable dedication by some of its nurses, physicians assistants and other staff members.

Physicians assistant Joyce Bishop and nurse Janet Beyer were the backbone of the operation. Both were on duty when the storm struck and MIT closed on Monday afternoon, Feb. 6. They stayed round-the-clock, until Friday morning, Feb. 10.

Others who helped out were nurses Elissa Sloan, Monique Cantin, Katherine Mulligan and Arthur St. Andre, a physician's assistant, who worked the offhours clinic. Nurses Catherine Marin, Elizabeth Matteson Carolyn Leonard, Pat Lamin and Chris Paskiewicz also made it in for night duty in the Infirmary. Most walked in from places such as Newton, Brighton and East Boston, and many worked expanded or double shifts.

The on-call physician was Dr. Walter Jones, but both Dr. Edward

R77-192, Computer Language Devel., Lab. for omputer Sci. (10/26) R77-196, Programmer, Lab. of Arch. & Planning

R77-209, Res. Scientist, Energy Lab. (11/30) R77-210, Prog./Data Analyst, Earth & Planetary

Sci. (11/9)
R77-209, Res. Scientist, Energy Lab. (11/30)
R77-210, postdoc. res., Plasma Physics, Res.
Lab. of Elec. (12/7)
R77-211, Computer Syst. Design, Lab. for Computer Sci. (12/7)
R77-212, Prog. Language Design, Lab. for Computer Sci. (12/7)
R77-212, Computer Software Design, Lab. for R77-212, Computer Software Design, Lab. for R77-212, Computer Software Design, Lab. for

R77-213, Computer Software Design, Lab. for nmputer Sci. (12/7)
R77-213, Computer Software Design, Lab. for omputer Sci. (12/7)

R77-216, Oceanographic Res., Earth &

R77-221, Neurochemist Res., Nutrition & Food

R77-227, Plasma Physicist, Res. Lab. of Elec.

R77-228, Plasma Physicist, Res. Lab. of Elec.

(1/4)
R77-230, Computer Syst. Designer, Lab. for Comp. Sci. (1/11)
R77-231, Computer Syst. Designer, Lab. for Comp. Sci. (1/11)
R77-238, Programmer/Analyst, Har./MIT Div. of Hlth Sci. & Tech. (1/11).
R78-1, Cell Culture Chemist/Biologist, Cell Culture Ctr. (1/18)
R78-2 Chief Oper. Lab. for Nuclear Sci. (1/18)

R78-2, Chief Oper., Lab. for Nuclear Sci. (1/18) R78-3, Submicrometer Structure Devel., Res.

ab. of Elec. (1/25)
R78-4, Medical Technologist, Lab. for Animal

R78-8, Computer Usage Res., Sloan School (2/1) R78-9, Regional Economic Research, Urban Studies & Planning (2/1)

The following positions have been FILLED since the last issue of *TECH TALK*:

R77-235 Spons. Res. Staff

Sec. IV Clk. III Sr. Clk.

B77-710

R77-151

B78-26

Spons, Res. Staff Sec. III-IV

Spons. Res. Staff Sec. IV

Sec. IV Admin. Staff Spons. Res. Staff Spons. Res. Staff Sec. IV

Sci. (12/14)

-201, Prog./Data Analyst, Earth & Planetary

7-209, Res. Scientist, Energy Lab. (11/30) 7-210, Prog./Data Analyst, Earth & Planetary

S. Rendall and Dr. Melvin H. Rodman, medical director, made visits to the Infirmary later in the week.

Unit coordinator Phil Wickins made it in Wednesday to help out wherever possible, from ordering supplies to emptying wastebaskets. Berenice Hanrahan, a senior clerk in the Medical Department, also came in the latter part of the week to help out

Operators Kept MIT in Touch with World

That telephone service in and out of MIT continued without interruption throughout last week's paralyzing blizzard was a tribute to the dedication of more than a dozen operators and student operators who remained at their stations or fought their way into work.

For Agnes N. Morrice, administrative assistant in the Administrative Services Division of the Department of Physical Plant, and for more than a quarter of a century a mainstay in MIT's telephone service, this storm marked the first time she was unable to reach the Institute to personally direct telephone operations. Like thousands of others, she was marooned in her home in Natick until Friday

answering a heavier then normal load of telephone calls.

Inpatient morale was well maintained by the presence of Katherine Gibbs who kept meals coming on schedule right through Friday before finally going home.

The inpatient load was slightly above normal because of flu and there was also a brisk outpatient business in flu. Most of the pediatrics cases were handled by telephone because of the snow and the staff also provided insulin and other medications to campusbound students and personnel.

"The spirit of cooperation in the infirmary was really remarkable," Dr. Rodman said. "Those who made it in did everything they could to ease the burdens of others and make the patients comfortable. The entire staff deseres commendation.'

and had to content herself with conferring only remotely with Chief Operator Maureen Ryan of Halifax, one of four operators on duty Monday afternoon when the storm struck.

"I was awed by the way Maureen was able to take charge, get things organized, and keep them going," Mrs. Morrice said.

Mrs. Ryan and three other regular operators-Diane M. Catalano of Waltham, Patricia R. Norton of

Anonymous Hero

A so far anonymous student is one of the heroes of the storm to MIT telephone opera-

Four operators were at work when the storm arrived and remained on the job through the middle of the week when relief began arriving. One of them requires regular medication and as the storm wore on her prescription came near running out.

"One of the student shovellers working for Physical Plant went through all the snow across Longfellow Bridge to have the prescription refilled," Operator Marie Murphy said. "He must have been exhausted. We are all grateful for what he did."

Somerville and Cornelia M. Sartell of Somerville-were on duty Monday afternoon when the storm came and remained in the telephone offices on the seventh floor of the Horace S. Ford Building (E19) Monday night, all day Tuesday and Tuesday night, and into Wednesday before relief operators began reaching the office. Mrs. Ryan herself was not able to leave until Thursday.

Early in the storm, the four were joined by four student operators-Cynthia A. Zannetos of Weston, Patrick T. Martin of Bloomfield Hills, Mich., Patrick A. O'Donnell of Olympia, Wash., and Jeffrey R. Solof of Mt. Lebanon, Pa.

Help began arriving Wednesday. Linda A. Rogers of Quincy, a former operator who now works in the Work Control Center operated by the Department of Physical Plant, and Louise M. MacEachern of Brighton, managed to reach the office on Wednesday followed by Marie Murphy, Catherine T. Tackney, and Mary McDonough of Cambridge, Barbara Plenty of Salem, N.H., Myrna Resteghini of Somerville, Catherine M. Burke of Brookline and Morton Berlan, superintendent for administrative services in the Department of Physical Plant, and Dennis Baron, assistant to the superintendent for telecommunications.

The operators slept on couches as best they could and were kept supplied with food by grounds crewmen and student shovellers working for the Department of Physical Plant.

The operators encountered several special problems.

For one thing, they handled all work control calls on the FIXIT line during nighttime hours, a practice that was only initiated in January. In addition, they monitored the Institute's autocall system for fire alarms.

The operators also frequently found themselves talking with parents of students calling from long distances trying to reach their offspring. In most cases, the operators were able to run down the students. But in those cases where students were temporarily out of reach, the operators found themselves giving reassurances that while the storm was bad, everyone at MIT was safe.

"The volume of telephone traffic coming into MIT was unusually heavy during the first part of the storm week," Berlan said, "which only added to the emergency problems the operators faced. People in other parts of the country did not know there was an emergency in Boston and when they were unable to reach MIT people by direct dialing, they called the operators for help. The numbers of parents calling students also was at a maximum during the first part of the week in the immediate wake of the

"There is just no way we can adequately express gratitude to the people who helped keep MIT in touch with the outside world during this emergency. They performed wonderfully.'

Silvio N. Vitale, Coach Of Fencing Team, Dies

Silvio Napoleon Vitale, MIT's fencing coach for 27 years who retired in 1975, died February 7 in Melbourne, Florida, after a brief illness. He was 67.

Affectionately known as the "Maestro" by his friends and contemporaries, Vitale's MIT teams ruled the New England intercollegiate fencing scene for almost three decades. His career total was 147 victories and in addition, his teams won 13 New England team titles, including seven in a row from 1968-1975.

A milestone in his coaching career was in 1974 when the Engineer foil team captured MIT's first "Iron Man," emblematic of the Eastern Foil Championship. The Tech foil trio repeated this feat the next year.

Through the years as a physical education instructor (later as an Assistant Professor) and coach. Vitale conveyed interest in his beloved sport of fencing to thousands of MIT students. In a sport that is rarely taught in secondary schools, Vitale created a lasting impression on scores of men and women

during his tenure at MIT.

Among his achievements at MIT was his contribution to the children community. Vitale was instrumental in starting the MIT Day Camp that has flourished over the past 18 years. As assistant director, Vitale worked on the grass-roots level of the camp with the children who addressed him as "Mr. Vic."

In addition to his coaching, Vitale was the first Women's Athletic Coordinator at MIT from 1969-71, past president of the MIT Coaches Association and served as an advisor for the MIT chapters of APO and De Molay.

Born in Everett, Mass., Vitale graduated from Dorchester High School in 1928. He attended the Royal Academy of Fine Arts in Rome, where he received a Master of Fine Arts degree. He distinguished himself by winning the All Weapons Championship in the Italian University Regionals 1932-34.

Prior to his becoming MIT head fencing coach, Vitale assisted at Bowdoin College and Curry College. He also served as President of the Boston Fencing Club

and worked in fencing choreography at Emerson College.

Vitale was a long-time member of the National Fencing Coaches Association, the New England Fencers League, the National Archery Association and the Kiwanis Club of Cambridge, of which he was a past president.

In 1965, Vitale was awarded the title of Fencing Master by the National Fencing Coaches Association of America.

In the two years following his retirement from MIT in 1975, Vitale and his wife Frances lived in Sebastian, Florida, a suburb of Melbourne. There he was able to pursue another of his great loves, painting, and shared his knowledge with others by teaching art classes to adults. He also served as part-time coach of the Florida Institute of Technology's fencing

A memorial service will be held for Mr. Vitale at MIT in the near

Mrs. Samuelson

A memorial service will be held at Harvard Memorial Church on Thursday (Feb. 16) at 2pm for Mrs. Marion Crawford Samuelson lmont wife of MIT Profess Paul A. Samuelson.

Mrs. Samuelson, who was 62, died of cancer at Massachusetts General Hospital on Tuesday (Feb. 14). She had been hospitalized a month.

Her husband is Institute Professor, professor of economics and a Nobel Laureate. They would have been married 40 years this July. Mrs. Samuelson was born in

Berlin, Wisc. She was graduated from Radcliffe College, summa cum laude, in 1937, with a bachelor's degree in economics.

In addition to her husband, she leaves six children, Mrs. Jane Raybould of London, England; Margaret, William, John and Robert Samuelson, all living in the Boston area, and Paul R. Samuelson of New York City; a grandson, James Alexander H. Raybould; and two brothers, James Crawford of Florida and John Crawford of New York.

The family requests no flowers. Contributions may be made to the Radcliffe College Fund.

Robert L. Loria, 50, Dies LNS Operations Manager

A Funeral Mass for Robert L. Loria, 50, of Belmont, was held Saturday, Feb. 4, at St. Joseph's Church, Belmont.

Mr. Loria, operations manager at the Laboratory for Nuclear Science at MIT, died Thursday, Feb. 2, following a short illness.

A native of Quincy, Mr. Loria was educated at Newman Preparatory School and Boston University where he received the BA degree in business administration in 1954. In 1962 he was admitted to the Massachusetts Bar following award of the JD degree from the New England School of Law. He was a member of the Massachusetts Bar Association.

Mr. Loria joined MIT in 1956 as an administrative staff member of the Laboratory for Nuclear Science, later assuming its operations management. In that position he had major responsibility for complicated procurement procedures for devices and material used in nuclear and particle physics. He became one of MIT's most knowledgeable experts in the field.

In 1971, Mr. Loria suffered complete kidney failure and after about a year of dialysis, he underwent a kidney transplant. Following his recovery, he returned to work full time.

"Through all of this, Bob displayed an intense devotion to his family and his job; a quiet courage and just plain old-fashioned guts we all came to respect and admire," said Dr. Frederic J. Eppling, associate director of the laboratory and a close colleague of Mr. Loria's.

Mr. Loria was a veteran of the US Marine Corps, having served in both World War II and the Korean conflict. He was a member of VFW

Post 1272 in Belmont and the Disabled American Veterans.

Mr. Loria's widow, Joan Novitski Loria, is a technical assistant at MIT Historical Collections. He is also survived by two daughters, Dana and Mary-Ann, and two sons, Christopher and Robert, all of Belmont; his mother, Louise Loria of Weymouth; a brother, John C. Loria of Reston, Va.; and a sister, Louise M. Purtell of Ramsey, N.J.

Memorial contributions may be made to the Kidney Fund of Massachusetts, Inc., 138 State St., Boston, 02109.

Edward W. Bean

Edward W. Bean, 73, of Concord, a retired instrument maker in the Department of Meteorology, died Tuesday, Jan. 31.

Mr. Bean worked at MIT from 1942 until his retirement in 1973. He was a member of the Quarter Century Club.

Survivors include his widow, Evelyn Dubey Bean; a son, Edward W. Bean, Jr., of Orlando, Fla.; four daughters, Paula M. Bean and Cherylene Fletcher of Concord, Barbara Danks of Darien, Ct., and Nancy Watson of Greenville, S.C.; and nine grandchildren.

Leon T. Brown

Word has been received of the death of Leon T. Brown, 79, of Waltham, Mr. Brown, a project technician at Lincoln Laboratory from 1942 until his retirement in 1962. died January 2. He leaves several nieces and nephews.

The following positions are on HOLD pending final Comp. Oper. III

Comp. Oper. III Tech. Typist III-IV Sec. III Admin. Asst. V B77-741 B78-27

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Physical Plant's Efforts Averted Disaster

(Continued from page 1)

grounds and head of physical plant's emergency response team.

His first concern was clearing fire lanes, particularly around dormitories, and the massive job of snow removal was made possible only with the help of a huge "payloader," a workhorse frontend loader, operated by the Delmont Water Construction Co. of Newton and hired by physical plant.

"That piece of equipment saved us," said William R. Dickson, director of physical plant. The machine was operated by Delmont non-stop for 24 hours a day, in three shifts, for seven days in a row, from Monday, Feb. 6, through Monday, Feb. 13. In cooperation with the City of Cambridge, it was used also to clear Vassar, Albany, Ames, Carleton, Amherst, and Wadsworth Streets.

But just as snow removal had started in earnest on Tuesday, Feb. 7, water dripping on a smoke detector in Building 14 set off a fire alarm. Cambridge fire apparatus responding to the alarm immediately became mired in the snow on Ames Street and Mr. Pickard's crew worked for about three hours helping to free the vehicles. A ladder truck was stuck for six to eight hours at the corner of Ames Street and Memorial Drive. Unable to get their vehicles to the site, the firemen walked from Ames Street to check the smoke detector in Building 14.

After that incident, Mr. Pickard said, physical plant people monitored all alarms first to avoid unnecessary dispatching of Cambridge firefighting equipment.

In the outside digout from the blanket and dikes of snow, Mr. Pickard had-in addition to the student helpers—a crew of about 38 men who operated all of the available equipment. They were the men who worked long hours with little sleep (and when they had it. bedded down in the wrestling room). It is they, Mr. Dickson and Mr. Pickard said, who are due full credit for having the Institute accessible when it reopened on Monday, Feb. 13. "Some slept not more than five to eight hours during their full stint," Mr. Pickard said.

Although all workers were sent where needed during emergencies, the West Campus crew consisted of Ed Donnelly, of Malden; Thomas Baird, of Arlington; Salvatore Marino, of Malden; Frank Thibault, of Revere; Wallye Van Gyte, of Malden; Norman Magnuson, of Arlington; Mike Poukstis, of Cambridge; John Allen of Malden; Tony Fillipone, of East Boston; Dave McGrath, of Somerville; Warren Leaman, of Cambridge; Tony Camara, of Cambridge; Manuel Morena, of Somerville; and Michael McCloskey, of Malden.

Grounds crewmen who did yeoman work on the main and east campuses were Antonio Arena, of Brighton; Laurence Burnelle, of Boston; Francis Buckley, of Boston; Anthony Burke, of Sudbury; Pasquale Cammorata, of East Boston; John Curley, Arlington; Dominic Amelio, of Somerville; Michael Falcetta, of Roxbury; Chester Graves, of Arlington; Anthony Guarnieri, of Medford; Thomas Guinan, of Brighton; Roger Nappier, of Jamaica Plain; William Nolan, of Winchester; James O'Brien, of Arlington; Laurence Paglierani, of Arlington; Charles Pike, of Somerville; James Young, of Everett; Robert Leonard, of Somerville; Christopher Maher, of Somerville; Donald Silva, of Arlington; Walter Stoll, of Dedham; Edward Wise, of Winthrop; Kenneth Bradway, of Westwood; and Patsy Piccione, of Somerville.

When dining services began to run short of food on Friday, Feb. 10, it was Mr. Paglierani, a truck driver, who took the wheel of one of MIT's bigger vans on three out-oftown trips for supplies. He did the driving on trips to Natick, Boston and Medford, accompanied by officer Robert Harlow, of Campus Police, who enabled the mission to get through police roadblocks, and by S. Edward Leonard, general manager of MIT food services.

During the week, the problem of breakdowns of MIT snowfighting equipment became "horrendous, Mr. Pickard said, because no parts or service were available. So many machines were "redlined" (put out of service) for these reasons, he said, that the Institute is now down to its minimum capability for fighting snow. For example, he said, two of the Institute's frontend loaders were put out of commission by blown tires.

Throughout all of the wild week and incessant and hazardous work. only one of the grounds crew was injured, Mr. Pickard said. The injured worker was the operator of a front-end loader, who suffered a cut over one eve when his machine struck a snow-hidden object during plowing. After treatment in the Medical Department, the driver was back on the job within 20 minutes or so, Mr. Pickard said.

At one point during the week, Mr. Dickson said, the Gulf service station on the corner of Massachusetts Avenue and Vassar Street, from which physical plant obtains all of its gasoline, ran out of fuel. Physical plant got in touch with Gulf officials and negotiated additional supplies for MIT snowclearing equipment.

The assistance of student shovelers was abetted by Dr. M. Nafi Toksoz, master and faculty resident of Baker House, who called physical plant on Wednesday, Feb. 8, to say that he had recruited a group of students who were willing to work without pay, Mr. Pickard said. Dr. Toksoz is professor of earth and planetary sciences at MIT and director of the George R. Wallace Geophysical Observatory. tory. However, physical plant insisted on hiring the students as paid, part-time workers.

All of the Institute's struggle against the storm, outside and inside buildings, was coordinated by telephone and work-control operators in the Telecommunications Office, whose work was acclaimed as "fantastic." During daytime work hours, physical plant operates its own dispatch center. But at night, this responsibility shifts over to the telecommunications group, which operatedagain with little sleep or food-to sift incoming emergency calls and channel information to the appropriate physical plant personnel.

Telephone operators who were on the job during the emergency period were chief operator Maureen Ryan, of Halifax; Diane Catalano, of Waltham; Patricia Norton, of Somerville; Connie Sartell, of Somerville; and Louise MacEachern, of Somerville. Work control operators were Linda Rogers, of Quincy, and Scott Pickard, also of Milton, a Boston University student who is the son of Mr. Laurence Pickard and who has worked, part-time, after school, at the center for the last three years. He also remained on the job all

At the side of Mr. Pickard during the storm of the century were William McRitchie, of Somerville, grounds foreman; Oscar Manupelli, of Everett, assistant foreman; Alfred J. Texeira, of Waltham, assistant foreman; Elmer Condon, of Cambridge, assistant foreman; and Richard Greenough, of Watertown, assistant foreman.

Viewed from the inside of the Institute's buildings, the ravages of the storm and coping with them were no less formidable. And Richard De Wolfe, manager of building maintenance, said of his two-man crew-all that he had available-"these guys hung in there and bailed us out."

Out of what? Altogether, some 28 listed emergency repair jobs that, if left unattended, could have caused major damage.

For example, an automatic door to the entrance of Tang Hall became inoperable and refused to close letting snow blow into the lobby and pile up to the level of the wall telephone.

His men, Irving Webber, of Woburn, and Steve Rosolik, of Cambridge, shoveled it out. Both ironworkers, in the physical plant metal shop, they also dealt with the problems of steel-framed windows-some only left slightly ajar by office occupants-that were caught and whipped open by the brute force of the wind.

-In Building 14, they shoveled snowdrifts ouf of an office whose windows had been ripped open by the wind.

-In Kresge Auditorium, they taped up the safety plate glass of four doors that had been broken by the blizzard.

-In physical plant's State Street garage behind the Epsco building, they repaired a door that had been damaged when a truck slid into it. The garage is used for storage of sand and salt.

-In Building 48, they chopped away threshold ice that prevented securing an entrance door.

-In all buildings with broken glass they replaced the panes temporarily with plywood but, said Mr. De Wolfe, they expected to have completely reglazed all windows by last Monday, Feb. 13.

An enormous help in all of this effort, Mr. De Wolfe said, were the efforts of Walter Bagley, housing supervisor for Westgate and Tang Halls, who took care of many problems on his own initiative.

Throughout the emergency, Mr. De Wolfe kept in touch with Harmon E. Brammer, director of housing and food services, regarding the dining services' level of food supplies. Deliveries were impossible, and on Friday they decided to make sorties to replenish the services' food supplies.

In mechanical services, manager George E. West, Jr., of Abington, worried most about a possible power outage and its effects on research experiments, but his crews-many of whom worked long hours for four or more days-"kept things humming," he said.

Oil burners in buildings not tied into the central utilities system were monitored by Alex Eccles, of Dorchester, who caught "a couple of flame-outs."

Four separate sections of the campus were monitored for mechanical vital signs: John Mc-Kinnon, of Sharon, and Edward Moore, of Saugus, were in the northwest area; Donald Harrison, of Cambridge, and Roy McBee, of Watertown, were assigned to the west section; main buildings were checked by Kiernan Cunningham, of Everett, and Edward Lynch, of West Roxbury; Harold Dick and Richard Sargent, both of Cambridge, were on duty in the east area; and John Brangwynne, of Belmont, monitored the main research buildings.

Electrician Steve Miscowski was on duty most of the week monitoring the fire and emergency alarm system. He was relieved on Thursday by Don Olson, of Brighton.

For four days Tony Silva, of Everett, served as mechanical services' coordinator-dispatcher, with the help of Peter LaRocca, of Cambridge. Serving as Mr. West's "fire chief" was Peter Santoro, of Wakefield, who checked the Institute's stationary fire equipment and, with the help of students, dug out fire hydrants. Early in the week Robert Sulkey, of Winthrop, came in to aid Mr. Santoro.

At midweek, Normand Canuel, of Arlington, and Eddie Perkins, of Somerville, walked from their

homes to the "T" in Harvard Square and came in to spell other workers in various areas. And the same day, Paul Sullivan, of Wareham, who had been skiing in New Hampshire, got back to the Institute and joined the west campus monitoring group.

Fortunately for MIT, Cambridge Electric's power supply never failed during the storm, and Richard F. McKay, manager of MIT's central utilities plant, said the chief problem of his operation was in obtaining power plant personnel. Lloyd Locke, of Reading, a 2nd class engineer in charge of the watch on Monday, Feb. 7, spent 50 straight hours on duty. He was assisted by 3rd class engineers Samuel Best, of Dorchester, and Patrick Deasy, of Somerville, "who were marooned with him."

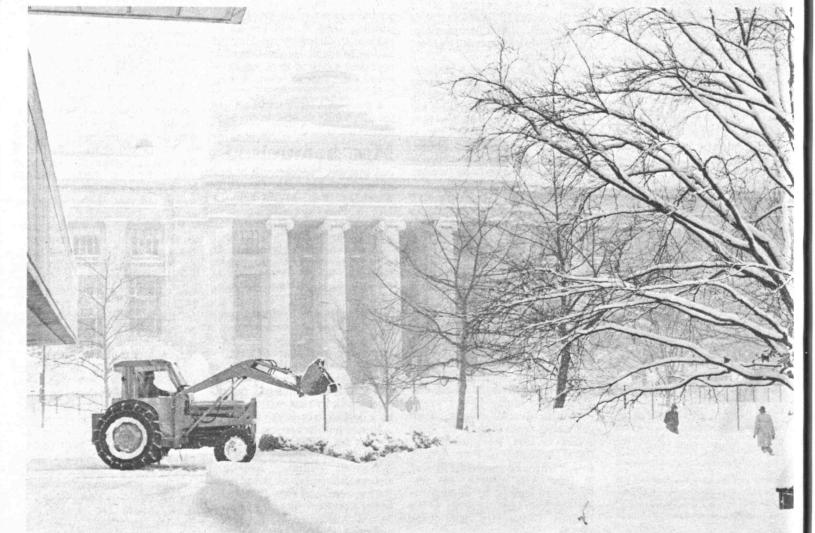
They were assisted by Walter Campbell, of Dedham, who somehow managed to drive into Cambridge, and by Ebert Agard, of Cambridge, who came to the Institute on foot. Mr. Locke was subsequently relieved by Daniel Webster, of Revere, who worked a 24-hour-straight stint.

Flooding occurred throughout the Institute-and altogether physical plant building services pumped out an estimated 1,500 gallons of water that leaked in through seepage, porous hoses, and windows.

In contrast to the merely relative comforts of the wrestling room in duPont, the building services personnel slept in the Bush Room in only the clothes they had worn to work.

Although their duties are primarily mail delivery, shipping, and cleaning, some supervisors worked a straight 48 hours and they coped with flooding problems in Buildings 6, NW 13, 16, 18, 25, 39, 56, and 66. Theodore M. Doan, manager of building services, and George J. Pesaturo, Jr., supervisor of building services, were unable to get to the Institute but monitored the work from their

Again, as is the case in many Institute services in which the people involved usually remain anonymous, there were stalwarts. Among them: Supervisors George Carney, of Lowell; Paul Motroni, of Everett; Ralph Jackson, of Highlands; Newton Mike Micciche, of East Boston; Austin Petzke, of Saugus; George Gillis, of Everett; Charlie Jennings, of Cambridge; Ralph De Marco, of Boston; John Whitnell, of Tewksbury; and Charlie Wilkins, of Jamaica Plain.



R. Haff of Mavlern, Pa., a photographer for the twice-weekly student newspaper, The Tech. Scene was made from in front of the Student

Fury of last week's storm is captured in this photograph taken by Gordon Center looking toward the 77 Massachusetts Ave. entrance to MIT. The storm closed the Institute for more than four days. A major problem encountered by grounds crews was that the snow was so deep that only the heaviest equipment could budge it.