Massachusetts Institute of Technology

September 6, 1978 Volume 23 Number 5

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List, Stratton Collections On Exhibit Before Lottery

MIT students who wish to bring some cultural life into their academic environments will be able to borrow works of art immediately following the List and Stratton Student Loan collection exhibit now on display at the Hayden Gallery and the Hayden Corridor Gallery.

More than 100 prints and posters will be available for loan to fulltime registered students through a project sponsored and organized by the MIT Committee on the Visual Arts.

The exhibit of the List Student Loan Program and the Catherine N. Stratton Collection of Graphic Art will be open to the public, 10am to 4pm daily, and Wednesday evenings, 6-9pm, until September 15.

Students may view both collec-tions and register their first, second and third choices for prints and posters. Loans will be limited to one print or poster per student.

After the exhibition, students will be selected at random and matched as closely as possible with their art preferences

The List Student Loan Program was established in the summer of 1977 with the gift of 87 framed prints and posters from the Albert and Vera List Collection. An additional 23 prints were given by Mrs. List last fall. Several of these will be added to this year's lotteryothers have been sited permanently in New House student lounges and public living spaces.

Mr. and Mrs. List are patrons and collectors of contemporary art who have made major contributions to the arts at the New School for Social Research, Lincoln Center for the Performing Arts and Brown University.

The Catherine N. Stratton Collection of Graphic Art was established in 1966 by the Arts Commit-



like six to eight tomatoes to most of us, but that's two pounds of tomato Tony de Sousa is holding in his hands. Mr. de Sousa, who has worked as a custodian in Building 2 for 10 years, grew the monster in his Arlington vegetable garden. Though he has a variety of vegetables in his garden, which he fertilizes with cow manure, Mr. de Sousa grew only four tomato plants this year. With this kind of product, who needs more?

tee in tribute to Mrs. Julius A. Stratton, wife of MIT's 11th president, for her pioneering work in the growth of the visual arts at the

Mrs. Stratton, a member of the MIT Council for the Arts, has been instrumental in developing and expanding visual arts programs and activities here for some 20 years.

From the beginning, the Stratton Collection has tried to bring students into direct daily contact with original works of art. Works by Calder, Arp, Stella, Albers and other contemporary artists are included in the exhibition and lot-

Many of the graphics in the List collection are signed, limited edition prints. Several outstanding American artists, such as Claes Oldenburg, Trova, Ellsworth Kelly, Robert Motherwell, Al Held and Chryssa, are represented.

On Friday, September 15, the Gallery will close at 1pm and reopen at 5pm for announcement of the winners and a party for students. Boris Magasanik, professor of biology and the new chairman of the Committee on the Visual Arts, will speak briefly.

Directory Listing

Information is now being prepared for the 1978-79 MIT Directory. All persons employed by MIT will again be listed, and you are asked to check with your department or laboratory supervisor to be sure listings are accurate.

Individuals not wishing to list home addresses and/or telephone numbers may request that they be deleted. Such requests should be made through your laboratory or department supervisor.

The telephone books are scheduled to be issued in November.



Promptly at 6:30 last Friday the fraternity rush began following the Freshman Picnic. By now most of the new students have been settled in their permanent term-time housing. —Photo by Calvin Campbell

Photo Exhibit To Open Here

A retrospective exhibition of the works of two of America's foremost photographers, Aaron Siskind and Harry Callahan, will open on Tuesday, Sept. 12, at the MIT Creative Photography Gallery.

A special opening for the major two-man show will feature Mr. Siskind as a special guest, 5-7pm, Sept. 12.

Mr. Siskind and Mr. Callahan have been personal and professional friends for more than 20 years. Both men were on the faculty of Chicago's Institute of Design and, later, the Rhode Island School of Design in Providence.

The Callahan/Siskind exhibit will be on public display at the Creative Photography Gallery, 126 Massachusetts Ave., Cambridge, through October 18. Gallery hours are 9am-10pm, Monday-Friday; 10am-6pm, Saturdays; and noon-8pm, Sundays. For more infor-mation, call x3-4424.

tion of Ensemble Director Murray

Biggs. After each performance the

company will be available for dis-

cussion with MIT freshmen and

Graduate Orientation Begins

A special welcoming ceremony for new graduate students is planned for Thursday morning, Sept. 7, at 9:45 in Kresge Auditorium, leading off a full day of orientation activities.

Speakers Holly Heine, assistant dean for student affairs, John Turner, associate dean of the Graduate School, and Jerome B. Wiesner, president of MIT, will be introduced by Steve Horwitz, president of the Graduate Student Council and coordinator of OR '78. A schedule of orientation activities will be handed out at the ceremony.

Following the ceremony will be a morning reception with coffee and doughnuts in Killian Court, the Killian Karnival and free graduate student picnic in Killian Court, and in the afternoon, departmental open houses, an international open house and an open house for women graduate students. In the evening there will be the R/O Activities Midway in du Pont Gym-

Fees Raised

Because of increased costs, fees charged to outpatients for visits to specialists in the Medical Department have been raised, effective September 5. New fee schedules have been posted prominently throughout the Medical Department.

Libraries Plan

The MIT Libraries are planning a series of tours to familiarize new members of the community with collections and facilities available

Student Center (Rm. W20-500), the ing Room (Rm. 13-2137) and the Rotch Visual Collection (Rm. 7-304) will offer tours upon request, as will Dewey Library, for groups of three or more.

The Institute Calendar will carry listings of the tours as they are scheduled. Copies of the complete tour schedule are available in the

from 9pm to 1am. Students from MIT and other area graduate schools will dance to the music of Ace. Admission is free and cut-rate 25 cent drink tickets will buy

nasium and the R/O Athletics

Midway in Rockwell Cage. The midways are a joint effort of the

graduate and undergraduate

Friday, Sept. 8, will allow a more

leisurely pace. The high point will

be a dance at the Faculty Club

orientation programs.

Other planned activities are the Black Student Association Orientation Program from 9am to 12 noon in the Bush Room (10-105) and OR '78 Muddy Charles Pub Day, with free beer from 11am to 5pm in the Muddy Charles Pub, Rm. 50-110.

Saturday, Sept. 9, is the day for graduate living group orientation parties. Ashdown, Tang, Eastgate and Westgate residents will be able to get acquainted with others in their houses at various parties planned for the day. A Black Graduate Student Association party will be held at the Tang Penthouse beginning at 7pm.

To wind up the week's orientation, the Graduate Student Council has chartered the New Boston cruise boat for a three-hour Boston harbor cruise from 8 to 11pm. Open air dancing to a live jazz band and disco music will be featured with drinks and hors d'oeuvres available from a cash bar. Tickets are hree dollars and the GSC will provide bus transportation to and from the harbor for a quarter each

Series of Tours

in the system.

The first tours are scheduled for Friday, Sept. 8, at 11am and 2pm in the Music Library (Rm. 14E-109) and at 2pm in Rotch Library (Rm. 7-238) for the city planning col-

Several libraries, including the Von Hippel Materials Center Read-

Lampert Memorial

A memorial service for Lt. General James P. Lampert (USA, Ret.), vice president for resource development, who died in July, will be held Friday, Sept. 8, at 2:30pm in the MIT Chapel.

Speakers will include Howard W. Johnson, chairman of the Corporation, President Jerome B. Wiesner, Nelson C. Lees, executive director of resource development, and Chancellor Paul E. Gray.

Memorial contributions may be made to the West Point Fund or to the American Cancer Society.

Shakespeare Ensemble to Perform semble's 22 actors under the direc-

The MIT Shakespeare Ensemble will perform five scenes from its repertory in the MIT Chapel on Thursday, Sept. 7, at 8pm and 9:30pm. The performances are open to the public free of charge.

The scenes-chosen to illustrate the range of the Ensemble's scenework-will be taken from Shakespeare's Merchant of Venice and Measure for Measure, Ibsen's Peer Gynt, Williams' Glass Menagerie, and Edward Bond's Bingo, a recent British play in which Ben Jonson tries to touch his fellow playwright Shakespeare for a loan. All the scenes have been substantially recast for this year. They will be played by 11 of the En-

others interested. The Ensemble's major production for the fall semester will be Romeo and Juliet (revived from last spring with only one change of

cast), and Much Ado About Nothing, directed by Jonathan Ivester. They will alternate in repertory during the last six nights of October. Anyone interested in working on either production should call the Ensemble office,

Science, Technology and Society

The following courses, which were previously offered by the Technology Studies Program, will be given this fall through the Program in Science, Technology and Society: 21.801 (formerly 21.77) Science from the Renaissance through the Enlightment, 21.807 (21.773) Professions, 21.811 (21.775) Emergence and Growth of New Research Fields, and 21.813J (21.787J) Technology and History: China and the West. The Program is also offering 21.803 (formerly 21.969) Technological Society and

the Recovery of the "Natural" and 21.812 (21.971) Culture and Technology in America: The 19th Century, as well as two new courses, 21.816 Science and Society in Modern China and 21.820 Computers and People. 21.800 Science, Technology and Society: Problems of Innovation, which was incorrectly listed in the Bulletin as a first semester course, will be given in the spring. For more information on the Program, stop by 20D-213 or call 253-4062.



September 6 through September 17

Events of Special Interest

TCA-Red Cross Blood Drive* - Give blood: Wed, Sept 6 and Thurs, Sept 7, 9:30am-3:45pm, 4th floor, Student Center. Refreshments will be

Seminars and Lectures

Wednesday, September 6

Schedule for Residence/Orientation Week 1978** - R/O Center open, 9am-9pm. Freshman must have an ID picture taken if they haven't already done so, 9am-5pm, R/O Center. R/O Academic Core Orientation, 10am-12:30pm, Kresge Auditorium. Computer Orientation, 1:30pm, Kresge Auditorium. More permanent dormitory assignments available, 2pm, R/O Center. Academic Midway, 2-4pm, duPont Gymnasium.

Thursday, September 7

Schedule for Residence/Orientation Week 1978** — Freshman registration material due 9am-4pm, R/O Center. R/O Center open, 9am-9pm. Still more permanent dormitory assignments, 2pm, R/O Center, Athletic Midway, 7-9:30pm, Rockwell Cage. Activities Midway, 7-10pm, duPont Gymnasium.

Friday, September 8

Schedule for Residence/Orientation Week 1978** — R/O Center open 12Noon-5pm. Last permanent dormitory assignments available, 2pm, R/O

Saturday, September 9

Schedule for Residence/Orientation Week 1978** - R/O Center open, 12Noon-5pm. Parents' Bus Tours; meet at Kresge Parking Lot, 1:30pm.

Sunday, September 10

Schedule for Residence/Orientation Week 1978** - R/O Center open, 10am-3pm. Parents' Panel Discussion, 1:30pm, Kresge Auditorium. President's Reception, Parents, Freshmen, and Transfer Students welcome, 3:30pm, President's House.

Tuesday, September 12

Prenatal and Parent Education Group Meetings* - Dr. Charles F. Eades, chief of obstetrics and gynecology service, medical department, will be our first fall speaker. He will discuss the hospital experience of labor, delivery, and postpartum; and will respond to questions from the group. Seminar at Noon, 3rd floor conference room, Infirmary. Bring your lunch, coffee, tea and juice provided. Children are welcome.

Thursday, September 14

Min Concave Cost Flows on Networks* - Dr. Giorgio Gallo, Universita di Pisa, Instituto di Sienze dell'Informazione, Pisa, Italy. Operations Research Center Seminar, 4pm, Rm 24-121. Coffee and doughnuts will be served after the seminar.

Community Meetings

Libraries 1978 Fall Tour Schedule* - Fri, Sept 8, Music Library, 11am and 2pm, Rm 14E-109. For further information contact Linda Solow x3-

Libraries 1978 Fall Tour Schedule* - Fri, Sept 8, Rotch Library, City Planning, 2pm, Rm 7-238. For further information contact Rita Caviglia x3

MIT Go Club R/O Activities* — Planning for you, instruction for beginners, and players of all ranks will be around to play. Sun, Sept 10, 1pm, Student Center, Rm W20-473.

Bowling League** - Lincoln Laboratory 10-pin bowling league starts, Wed, Sept 13, 5:45pm, Turnpike Bowladrome Rte 2, Cambridge ABC-WIDC sanction, mixed league. Interested in joining. Call Art Salkins x5741 Lincl or Tony Augustine x7736 Lincl.

Libraries 1978 Fall Tour Schedule* - Rotch Visual Collection, Rm 7-304. Tours included as part of the Rotch tours. Tours also available upon request. For further information contact: Nancy Schrock x3-7098

 ${\bf MIT\ Community\ Players^{**}-Come\ hear\ about\ the\ MITCP\ at\ an\ informal}$ reception on Thurs, Sept 14, 5-7pm, Foreign Student Lounge, Walker Memorial Hall, 2nd floor front. Refreshments will be served. If theater interests you, drop in and learn about the group.

Technology Wives Organization Welcoming Party** — Party to welcome new members of the community, newcomers, members and spouses invited. Sun, Sept 17, 3-5pm, Rm 10-340. Refreshments served. For information: Rachel Kent, 494-0137 or Roberta Caton x3-2406.

Technology Wives Organization Weekly Exercise Class** - An hour of serious exercise led by professional Marilyn de Kleer. Every Monday through Dec 18, 8pm, Exercise Room, 2nd floor, DuPont Gym. Info: call Marilyn de Kleer 494-9056.

Social Events

Faculty Club** — Tues, Sept 12, Lobster Night or boiled lobster, salad bar, dessert cart, \$8.50 incl tax. RSVP x3-4896.

Faculty Club** — Open Monday thru Friday: Luncheon served Noon-2pm; Dinner served 5:30-8pm. Happy Hour Monday through Friday, 4:30-6:30pm, wide variety of drinks \$1.05.

Movies

Rocky** - LSC movie. Fri, Sept 8, 7 & 10pm, Kresge Auditorium. Free.

Dr. Strangelove: Or, How I Learned to Stop Worrying and Love the - LSC movie. Sat, Sept 9, 7 & 9:30pm, Kresge Auditorium. Admission: 75¢ w/MIT or Wellesley ID.

Andromeda Strain** - SCC movie. Sat, Sept 9, 12Midnight, 2nd floor, Student Center. Free.

The Graduate** - LSC movie. Sun, Sept 10, Kresge Auditorium. Admission: 75¢ w/MIT or Wellesley ID.

Exhibitions

MIT Student Art Lottery and Loan Exhibition* - Sponsored and organized by the Committee on the Visual Arts. Over 100 framed prints and posters by contemporary masters from the List Student Loan Program and Catherine N. Stratton Collection of Graphic Art. For loan to full-time registered MIT students. On view Hayden Gallery and Hayden Corridor Gallery, through Sept 15, 10-4pm; Wed evenings 6-9pm. Fri, Sept 15, 1pm Gallery closing Lottery winners announced at 5pm, party in Gallery

Department of Architecture Fourth Floor Exhibition Program* — "The Department: Some 'stuff' " from Architecture Machine, Building Technology, Behavior Science, Film, Housing, Photography, Studio Work GSD/MIT, Visual Design, Visible Language Workshop, Environmental Design. On view, Thurs, Sept 7 through Sept 21, Bldg 7, 4th floor.

Harry Callahan and Aaron Siskind Photography Exhibit* - A major two-man show on view daily, Tues, Sept 12 through Oct 20, Creative Photography Laboratory, 120 Mass Ave, Camb, MA. For further information call 253-4424.

Open to the MIT community only *Open to members only

Send notices for Sept 13 through Sept 24 to Calendar Editor, Rm

x3-3270, before Noon, Friday Sept 8.

INSTITUTE **NOTICES**

Announcements

Registration**-Monday, Sept 11, 9am-5pm, du Pont Gymnasium. Freshmen should register by 11am

Student Insurance Waivers**-Students who have not filed their Student Insurance Waivers must do so immediately. Forms are available

Loan Exit Interview Deadline**—All September degree candidates who have student loans administered by MIT must report to the Student Loan Office, E19-225, by Sept 8 for an Exit Interview. Office hours are 9-5, Monday-Friday. The Loan Exit Interview is required by the Institute to maintain your good standing on the degree list.

Technique, the MIT Yearbook**-Meetings every Saturday at noon starting Sept 9, Rm W20-451. Free film and free pizza. Info call

Physical Education**-Registration for physical education classes will be held Tuesday, Sept 12, 8:30am to 11am, in the du Pont Gym-

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.

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Fall Art Classes**-Registration Sept 5-15, 1-5pm, W20-429. Classes in drawing, ceramics, photography, stained glass, calligraphy, Chinese brush painting, etching, begin Sept 18.

Cable TV

Wednesday, September 6

The following three programs are intended to orient new, incoming students to MIT's services. Produced by the Graduate Student

11am-12noon

12noon-1pm

Council.
HOUSING OFFICE
STUDENT ACCOUNTS OFFICE
DEAN FOR STUDENT AFFAIRS
ATHLETICS DEPARTMENT
FOREIGN STUDENT OFFICE REGISTRAR'S OFFICE FINANCIAL AID OFFICE MEDICAL DEPARTMENT GRADUATE SCHOOL OFFICE CAREER PLANNING OFFICE CAMPUS PATROL CHILD CARE OFFICE

Club Notes

MIT Concert Band First Rehearsal**-Sept 13. 8pm, Kresge Auditorium.

Concert Band**—Organizational Meeting Sept 11, 5pm, Rm W20-400. Refreshments.

Beginning sailing instruction**—every Wednesday 5:15pm at MIT Sailing Pavilion.

MIT Bridge Club*—ACBL duplicate open pairs game Thursdays, 7pm, Rm W20-473. Info: 494-8593 Admission 25.

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

MIT Go Club*-Regular meetings Mon, Sept 11, 8pm, W20-491, Thurs, Sept 14, 8pm, W20-407. Players of all ranks available, instruction for beginners, occasional lectures on strategy and

Hobby Shop**-Mon-Fri, 10am-6pm, Rm W30-031. Fees: \$10/term for students, \$15/term for community. Info: x3-4343.

MIT Juggling Club*—Thursdays 7:30-11pm Rm 407 Student Center; Sundays 1-4pm Kresge Oval. Visitors welcome

T'ai Chi**-The Athletic Department offers a course in T'ai Chi starting in the fall term. Professor Eugene Liu will give instruction Tuesdays and Thursdays from 11am to 12noon.

MIT Women's Rugby Club**—Practice every Friday 5:30-7:30pm. Games alternate Satur-days. Any woman with athletic card welcome. Info, call Sharon x3-6825.

Women's Soccer Club**—No experience neces sary. Those interested contact Patty McDaniel, x3-5009.

Religious Activities

The Chapel is open for private meditation 7am-

Interdenominational-Worship and holy communion, Wednesdays, 5:05pm, Chapel, sponsored by Lutheran-Episcopal Ministry.

MIT Islamic Society*-Weekly Friday prayers, 1pm, Kresge Auditorium, Rehearsal

Christian Service*—Sundays, 10:30am, Chapel. Singing, preaching, sometimes testimonies. Prayer following. All invited.

Bible Study*-Friday afternoons 1-2pm, Rm 20E-207. Bible class, music, guest speakers. Miriam R. Eccles, founder-director, Alpha and Omega Missionary Society.

New Subjects

Ch.E. 10.96 (A) Tues. 2-4pm

Thermoeconomics is a new method for the optimum design of a thermodynamic system. According to the method, a plant (power, chemical process, etc.) is divided into separate zones and a miniature economy is erected which governs the buying and selling of generalized availability from one zone to another The proper transfer prices for interzonal trading are found from the Lagrangian of the system which guarantees that local optima coincide with plant optimum. Lectures will cover generalized availability analysis, Lagrangian prices and their determination, methods of calculation for real systems, and computational techniques in thermodynamic

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 also urged to check with the UROP bulletin board in the main corridor of the Institute.

Welcome Freshmen and Other Newcomer

UROP invites and encourages you to participate with MIT faculty members in a wide range of research activities both on and off campus. The 1978/79 UROP Directory is now available in the Information Office, Rm. 7-121. To get started, first read the "How to Participate" section of the Directory, then talk with Coordinators and faculty; check with the UROP Office, Rm. 20B-141, x3-5049, if you have specific questions. Current project offerings vill be listed in this weekly column and on the UROP bulletin board in the main corridor of the Institute. You are particularly invited to come meet and talk with other MIT students about their UROP projects and how to get involved on Monday, Sept. 25, 2-4pm, in Lobby 10. Drop by any time.

Call for Proposals

Proposals for fall UROP support are now accepted. Please submit them to the UROP coordinator in your faculty research supervisor's department. For details on proposal writing and submission read the "How to section of the 78/79 Directory. Also, see the Guidelines on the bulletin board in the main corridor near the Admission Office. General Principles: Don't ask for what you

don't absolutely need. Be sure to have submitted your past UROP evaluations. Write a coherent proposal.

Announcement of Awards: Starting the week of September 25. 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 the money runs out Availability of Funds: 1) Generally avail-

able for materials and supplies 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.

Palestinian Folklore* — Sponsored by the Arab Club. Performs Palestinian Folklore troops — Lebanon. Fri, Sept 8, 7:30pm, Rm 10-25 mission: \$5 and \$2 for children, tickets available at the door.

The Compton Years* — A photographic essay of the lives of Dr. & Karl Taylor Compton. Mon-Fri, 9am-5pm, Historical Collections, 265 Ave, 2nd floor, Camb, Mass. For information call 253-4444.

Gyorgy Kepes, The MIT Years: '45-'77* - Organized and spon

the Committee on Visual Arts with the assistance of the Compton Compton Gallery Committee. On view at the Compton Gallery throug Sept, Mon-Fri, 9am-5pm, Building 10, 1st floor, MIT. Info: 253-440

Charles Stark Draper:Many Facets of the Man* — Major photos show on view Mon-Fri, 9am-5pm, Historical Collections, 265 Mass A

Hart Nautical Museum* — Permanent exhibit of rigged merchan naval ship models, half models of yachts and engine models. Open da

MIT Historical Collections* — In house exhibits include antique The Ellsworth A. Wente Collection of motors and meters; rare instru including compasses, sundials and other measuring devices from th and 18th centuries; Early Alumne and several exhibits of memorabi

photographs honoring prominent graduates of the Institute. On view

MIT Historical Collections* — Permanent exhibition Mon-Fri, 9am

Bldg N52, 2nd floor, Katharine Dexter McCormick, '04; Vannevar' 16; Bldg 4 corridor. The New Technology Exhibit 2nd floor balog Lobby 7. Energy Exhibit, Bldg E40, 1st floor. Solar Energy, Bldg 8 corridor. Center for Space Research, Astrophysics Exhibit, main control of the co

The Outdoor Collection* - There are many fine pieces of contem sculpture displayed on the MIT campus, including works by Alen Calder, Louise Nevelson, Pablo Picasso, Henry Moore, Tony Smith an ques Lipschitz. For information and guides to the campus, call the Inf

MIT Science Fiction Society* — Come and visit the world's largest

Musical Caricatures* — Music Library, Rm 14E-109. Numerous car

of various aspects of music, especially pictures of famous compose

Strobe Alley* — High speed photographs by Harold E. Edgerton, Ins

Professor and Professor of Electrical Measurement, Emeritus. Bldg 4,

The Shakespeare Ensemble* — The scenes chosen from Shakespe Merchant of Venice and Measure for Measure; Ibsen's Peer Gynt,

liams's Glass Menagerie, and Edward Bond's Bingo. Thurs, Sept 7, 8pp 9:30pm. MIT Chapel. The company will be available for discussion

Godspell* - Presented by the Musical Theatre Guild, based on the according to Saint Matthew. Evening performances: Sept 8,9,15,16. Matinee: Sept 10, 3pm, Kresge Little Theatre. Admission: \$2 w/MI

outsiders \$4 evenings, \$3.50 matinee. Free performance for Freshmen

science fiction library. Hours posted on door, Rm W20-421.

floor, Camb, Mass. For information call 253-4444.

9am-5pm, 265 Mass Ave, 2nd floor, Camb, Mass.

Bldg 4. Bldg 6 Dedication Exhibit.

tion Office, 253-4795.

Theater

Sept 9, 3pm.

Dance

freshmen and others interested. Free.

Bldg 5, 1st floor.

Dance Workshop** - Workshop director Beth Soll, will teach both to que and composition/improvisation classes. First meeting and class, Sept 13, 3:30pm, T-Club Lounge, duPont Gymnasium. For further inf tion call x3-2908

Folk Dance Club Beginner's Night* - Sponsored by Folk Dance Teaching of popular dances. Sun, Sept 17, 7:30-11pm, Sala de Puerto Everyone is welcome.

Freshmen are encouraged to attend departmental lectures seminars. Even when these are highly technical they provide stu one means to learn more about professional work in a departmen

*Open to the public

Research Lab of Electronics

There are several opportunities for under-graduates available in the areas of hardware and software at the Cognitive Information Pro cessing Laboratory of the Research Lab of Electronics. Several DEC computers will be utilized and some have been modified to fulfill the needs of the group. Electrical engineering and computer science majors are preferred but students majoring in other disciplines experienced in troubleshooting software

(UNIX, etc.) or hardware (discrete, boards or computers) are welcome. Contact James Cyr. 36-624, x3-7311. Department of Food and Nutrition: Protein

An opportunity is available for a student to assist in research involving the development of a method to determine the ability of protein solutions to be elongated and to be used as a measure of desirable characteristics of proteins from novel sources. Correlation to their potential for structure synthesis including the wet-spinning process will be attempted by the use of practical model systems. Experiments will involve some fluid mechanics, protein biochemistry and polymer rheology. Contact Juan Menjivar, 56-138, x3-3494, or Prof. C.K. Rha, 56-137, x3-3493.

> **TECHTALK** Volume 23, Number 5 September 6, 1978

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CLASSIFIED X3-3270

Ads are limited to one per person per issue and may not be repeated in succ must be accompanied by fu sive is e accompanied by full name and Institute on. Persons who have no extensions or who 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 113, and presenting Institute identification. Ads may be telephoned to x3-3270 or mailed to Rm 5-3270 or 113 Deadline is noon Friday before publication.

For Sale, Etc.

Yard sale: complt stereo, recrd plyrs, csstte sys w/spkrs; Sears humidifier; nw 2 slice toastr; nw Corningware Menuette set; stainlss stl cook utensis, suniamp, study lamps, posters, plywd pcs, curtain rods, misc furn & hsehold nds. Call 484-

3 spd bike w/23" frme, \$35; baby strollr, exc cond, \$10; gas power mower, \$25. Call Arthur x3-2720.

Rival hand food grindr & veget slicer, \$5; Fabrica-tions wall hang, 48Wx32H, \$10; Salton lg hot-tray w/bun warmr, \$10; radiator cover 23Wx40H, \$10; headrest bed cushion, \$3, 2 for \$5; Call Betty 232-2993 kp try.

Retina 3C w/telephoto & wide angle lens, best. Call Jake x8-1478 Draper.

Tw sz matt & box sprng, usd 1 mo. Call Margie x3-1757.

Refrig Sears 21cf, side frzr, gd cond, \$100. Call Herny Falk x3-2237.

Hoover port dryr, \$70. Call Fran x3-3399 before

Wilson tennis racquet, brnd nw latest Jack Kramer autogrph mod w/blck grip & trim, 4½L, strung w/-tournmnt nyln, \$37.50. Call Bonnie Hites 646-0101 Oboe: Loree serial #1X59, serious inquiries only:

BSR auto trntble, recrd chngr w/base, dus and cart, \$39. Call Bill 391-7150 or x3-7141 14 cf Whirlpool refrig/frzr, famly sz 801B frzr gd

cond. Call x3-3830

Drssr, gd cond, \$25 or best. Call S. Marinelli x3-

Tw beds, \$50; color TV, \$75; sm stereo, \$75 & other assrt furn; '68 VW, \$795; '68 Jaguar E-type, \$995; '73 Fiat 124 conv, \$1400. Call 391-2682.

2 calculators: HP 25 Prgrmmbl w/case & rechrgr, usd ls than 5 hrs, ask \$80; APF Mark 55, Prgrmmbl Scientific w/RPN w/case & rechrgr, \$30. Call x3-

Ignition tune-up kit Champ plugs, points, con-denser for 8 cyl AMC '68-75; bought by mistake was \$11.99, best. Call x3-3930 kp try.

Desk \$15; chair, \$10. Call Cheryl 868-1200 days or 523-1719 eves.

Heath Guitar spkr, exc tone, lks gd, 90 watts, 2-10" & a horn w/manual, casters, handles, 12' cord. Call Gerald x3-4726.

4 poster dbl bedstead, \$25; sofabed \$25; hme entertainmnt ctr 21" TV, AM/FM stereo, 62"L nice cab. \$50. Call 861-8247.

Garage sale: antique DR set, mny nrly nw butcherblck tbles in diff sizes, cffee tbles thes, tripp trapp chrs, wood highchrs, mod des DR chrs, portacrib, beaut Scand baby carrge, strllrs, baby carseat, vacuum clnrs, old sew mach, etc, Sat, Sept 9, 9 to 4pm, rain date Sunday, no early

OEM powr supplies 12.5V, 5A, 1% reg as is, cheap Call Dave x5-9460 Dorm.

birds, 55 Ledge Lawn Ave, Lex.

Moving mst sell, 3 lamps, \$5, \$15, \$30, yr old, exc cond; heat curlers, \$10; 6 plates \$2.50; 5 glasses \$3; brwn scatter cushion \$2; laundry basket, \$1; poly cooler & icepack \$2; plastic basin \$1; fl mop \$1, 4 mugs, \$1.50; alarm clock \$3, all nego. Call Sue x3-7006

Dbl bed, matt, box frme, \$95. Call x3-7579 or 494

Fl sz matt, gd cond, \$25; Smith-Corona port elec

typwrtr elite, gd cond \$95. Call 492-4969 eves & wkends.

W 3 spd bike \$10 & portacrib, \$10. Call x3-3510 aft-

Braided rugs, 8x11 orange, \$40; 512x812 BR, \$25; Zenith VHF TV, \$10. Call Charles x3-4726.

Low wide bookes, \$15; piano music. Call x5-9623

Drssr w/mirror, \$20; dble bed w/frme, no matt, \$8; metal cab \$5; side tble, \$7; 4 14" rims, Chevy, \$7 ea. Call Loyld x3-2215.

M bike, 25" frme, 27" whls, 10 spd, Ross Grand Tour Pro, nw \$155 ask \$125, brnd nw. Call Evon

B hockey skates, Lange Laser II jr sz 1, fits sh sz 2-2½, \$30; all leathr jr tacks, sz 3, fits sh sz 5-5½, \$20. Call Frank x7775 Lincl.

AM-in dash, car radio, wl fit most cars. Call Rick

M 3 spd bike, \$30; stereo tble, \$8; 2 sect expandble habitrail hamster set, \$10. Call Melissa x3-4524 days or x5-9766 Dorm eves.

Tool box, lockbl, reamers, calipers, dies, level squares, telescoping gages, \$40. Rm 8-302 Call x3 3316.

Child's drssr, exc cond; elect can opener; 8/Super movie projector; Polaroid sharp shooter. Ca Susan x3-6771 or 731-1896 eves.

12" Sanyo B&W TV, perf cond, 6 mos old \$53. Call

2 bookes, antique white, \$75 ea; chrome & formic F tble w/leaf & 4 chs, \$60; 6000 BTU A/C, \$60. Call Doug x438 Lincl. 3 spare usd tires, 600-12, \$7 ea or \$20 all 3, used for

Civic Honda; 11x12 brwn print carpet, exc cond, \$50. Call Louise x8-4487 Draper.

Refrig & hotplate, gd cond, jst right for dorm use \$55. Call x5-6310 eyes.

Desk \$20; chr \$5; drssr \$20; metal bookshlf \$15. Call Michael x3-2516 or 731-6802 eves. Solid pine desk, wood K chrs, hood hairdry, sofa &

match chr, plants, countr-top K cab, stl frme beds & matt. Call 661-4128 eves. Sngl bed w/matt & head brd \$25; yellow antiqued

bureau \$15; beige draw curtain for sliding dr or pic window to cover area appx 100"Wx86"H \$20. Call Charlote x3-3529.

Foot stool \$5; wood hallway clothes & shoe case \$15; tele tble, \$15; fl lamp \$15; lg mirror, \$15; 2 78x13 snows, mntd on rims, \$40. Call J. May x8-

Books for sale cheap: elem educat, mystery, psy, novels, etc, Rm E52-519, Thurs 9/14, noon-2pm & 4-5:30pm. Call Sandy x3-6680.

No offers refusd on Readers Digest Condensd bks. National Geo, misc. magazns, misc. childrens things. Call Willie x5536 Lincl.

Custom made drape deep burgandy antique satin 90°Lx18'W, lk nw, org \$100 now \$50; 2 contemp handsome K chrs, walnut backrest w/blck pad vinyl seat, lk nw, \$25. Call Jeannie x8-2577 Draper. Refrig, 2 yr old, with frzr, 13 cf, Newtonvll, \$100 for fridge; \$50 to move to 1st fl Camb. Call x5-6681

Vehicles

'64 Corvet Stingray, convertbl, whte & blck, 327 auto, \$5000 or best, Call x8-3049 Draper or 395-1437.

'66 VW Squarebck, gd tires, batt, etc, but eng nds work, \$150 or best. Call Kolm x3-5554.

'67Dart V8, rns OK, 4 Sears stl rads w/lots of mi to go, \$195 or best. Call Steve Denker x3-8210.

'67 Dodge Dart, 2 dr, auto, 92K, PS, rns wl, \$350.

'68 Buick Wildcat, 4 dr HT, 131K, PS, PB, A/C, gd tires + snows, gd run cond, Call Jacques x3-6507.

'68 Ford Galaxy 500, 4 dr, PS & PB, gd run cond, reliable trans, \$350. Call Ron x8-2818 Draper.

'69 Chevelle wg, 76K, depenbl, gd gas mlg, gd tires, pr snows on rims \$700. Call 527-0618.

'69 Chevy Impala, 2 dr HT w/ A/C, vy gd cond, \$575 or best. Call Avi x3-2297.

'69 Ford Fairlane, 65K, exc cond, nw tires & bttry, auto, A/C, PS, no rust, \$800 or best. Call Paul x3-7192.

'69 Funky Beetle, mstly red, 100K, idiosyncratic, rns OK but nds work, \$200 or best. Call Dany x3-4791 or better 489-1065.

'70 Pontiac Bonneville, PS & PB, mny opt, gd cond, \$500. Call Dorothy x3-3604.

'71 Ply Duster, slant 6, \$1000 or best. Call 396-0942

'71 Vega, 53K, bdy gd shape, eng nds some repr. Call 494-8932.

'71 Vega, nds repr, bdy & whls in gd shape, probest. Call 494-8932. '71 VW bus, 95K, nw eng, recent cltch, brkes, exh,

exc cond insd & out, blue & whte, \$1700 or best. Call Dave x3-2336. '72 Mercury Montego stat wg, gd cond, \$1100 or best. Call x3-2455.

'73 Alfa Romeo Berlina sedan, clean & comfort, runs flawlessly, \$2400. Call Rob 735-2101 days or 232-2549.

'73 Opel Manta Ralley, 4 spd, AM/FM, Mich rads nw bttry, nw resona Call 665-6236 eves.

'75 Datsun Honeybee, 46K, exc cond, 4 nw rads, 4 nw mags, \$2600 or best. Call x8-1510 Draper or 438-

'75 Peugeot 504, 4 dr maroon A/C, sunrf, stereo, auto, exc cond, \$4450. Call Frank x7424 Lincl.

'75 Toyota Celica GT, 5 spd, nw tires, exc cond, 45K, \$2900. Call Judy x7423 Lincl.

'76 AMC Pacer, 6 cyl, auto, exc tires, vy gd cond, \$2600. Call Ron x8-2818 Draper. '76 Honda Civic, 5 spd fll service record avail, \$2800 or best. Call Jim Mayo x623 Lincl.

'77 Ford Granada silvr w/red vinvl interior, PS & auto, 6 cyl, only 18K, ask \$3825. Call x3-2772 Sailboat, 14' O'Day Javelin w/motor & trailr, \$1300. Call 332-0767.

Truck camper cap: Jewel, 6'L30"H, panelled, insultd, scrnd, louved windws, laddr rck, \$265. Call 391-7150 or x3-7141.

Housing

Arl, 6 rms, 1st fl, choice loc, couple pref, no pets, security, refer, unht. Call 648-4860 aft 6pm.

Arl, flly furn hse, 3 BR, washer, piano, T, \$600/mo incl ht, avail Sept 1. Call x3-5939 Dr. Chen or 876-5761 eves.

Cambport, brnd nw hse for rent, 3 BR, 212B, mod K. dishwash. Call 491-4258 ever

Rm for rent, prv hme clse to Harv Sq & T. Call 491-4258 eves.

Lex, all wantd features on this lovely tree acre ting, nrly nw Colonial, 8+ rms, 2 car gar, walk to sch, \$82,900. Call 862-4506 for apt.

No Conway area rental, mod chalet, 3 BR, 112 B slps 10, avail 12/1-5/1, \$2600. Call Dick

Plum Island winter rental, Oct-June, \$300/mo, incl

util. Call x7726 Lincl or 851-2356 Som, gd investmnt property, 3 fam hse, 5 rms, rms, 3 rms, 2min walk from Sullivan Sq, cls to MIT, low 40's, by owner. Call 395-5397

Animals

German Shepard free to gd home, 8 mos, mild temper. Call Ellie x3-4765.

Affect, yng B&W, spayed F cat-box traind, usd to confined quartrs, sks owner to return love. Call confined quartrs, sks Frank x8-1576 Draper.

For sale, AKC Irish setter pups. Call 667-5761 any

Wanted

BR furn or semi-furn apt or hie in Brkline, Arl, Belmnt, Wtrtwn or Medfrd. Call x3-6081.

13 cf refrig or lg usd in working order. Call Howard

Elec guitar AMP. Call Randy x3-1789.

Babysttr needed M-W-F 8:30-1:30 in my Bos hme, easy T from Kendall Sq, 15-mo B, \$2+. Call x3-7182 or 426-3609 eves.

Hsesitting position desired by prof couple fall-winter or full yr, refer avail. Call Eleen 484-6308 eves or 354-0167 days.

Roommates

Semi-prof M 31, sk semi-reasonbl person, M or F, 25+ to shr comfort, conv apt, avail 9/1, \$125+ util, non-smoke & veget nd not apply. Call 332-7185

Rmmate wntd for 4BR apt, K&B, \$75 + gas & elect, 10 min from MIT, avail Sept 15. Call Mike 547-6784 ly msg.

Carpools

9 Call Coleen x3-2821

Riders with to & from Brkline 9-5. Call Helen x3-Nd ride MIT to Lincl hme M-F, 5:30/6pm. Call

Ride nd from Newton hglnds to MIT, Center St/Rt

Miscellaneous

Retired Swiss watchmaker E. B. Horne Co. Bos, will repair your watch at reasonabl rates. For Info call Rosalie x3-6867.

Player piano, non-functional. Free, jst haul it away! Call x3-3157.

Mature M can speak Spanish & English fluently wl translate letter, documents, papers, etc. George P. Blair 492-1403.

Typing of any kind. Call x3-7303.

WI type theses, MS, IBM Select. Call Carol x3-

Prof typist all field, theses, 10 yr exp, IBM Select Call x3-3807.

Wl type theses, MS, tech, fast & accur, IBM Correct Select. Call Debbie x3-1848.

Surplus Property

MIT surplus property for transfer or sale for research or teaching programs only.

Two (2) lathes, Hendey #1 CR sz 12"x42"; Precision Test Receiver, Airborne Inst Lab, mod 30 MC, type

Vibrating reed electrometer, Mod 31-V, mfg Applied Physics Corp, ser 446.

Call W. A. Derry, Property Office x3-2777.

POSITIONS AVAILABLE

This list includes all non-academic jobs 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).

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

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

3-4278 3-1594 3-1595 Carolyn Scheer (Secretary — Tertia Perkins) Virginia Bishon 3-1591 3-4266 3-4267

Richard Cerrato
Ken Hewitt
(Secretary — Paulette Chiles) Sally Hansen 3-4275 Lawrence Milan Kathleen Rick (Secretary — Jenni Leibman) 3-2928 3-4269

Admin Staff Data Base Manager, in the Property Admin. Staff, Data Base Manager, in the Froperty Office, Office of Facilities Management Systems to convert data into a meaningful code for a property computer system; maintain property inventories; retrieve data from computer system and act as central data source about property; reconcile accounting systements of equipment purchase; prepare related statistical analyses. A Bachelor's degree or equivalent, including basic mathematics course work required. Some experience in property management and computerized systems desirable. A78-59 (8/30).

Admin. Staff, Asst. to the Dean in the Dean for Student Affairs Office to advise, counsel and assist undergraduate and graduate students in a variety of matters: administer requests for readmission, withdrawal, reduced academic loads, etc.; advise faculty members and others on policy and procedures; confer with students and student groups on a wide variety of student-related subjects; refer students to appropriate resources; assist others in their interactions with students; provide follow up assistance to students with special needs; composite to the students of the students support student organizations and activities. Master's degree or equivalent and counseling experience required. Knowledge of MIT and direct experience as an MIT student helpful. Interpersonal and communicative skills also required. A78-60 (8/30).

Admin. Staff. Admin. Officer in the Laboratory of Architecture and Planning to establish and monitor all fiscal, personnel and administrative systems for the Laboratory and the Dean's Office, School of Architecture and Planning. Will assist in development, preparation, monitoring and execution of research, general and fund accounts, act as general office manager for Lab. Financial as well as general administrative skills required. Interpersonal skills also necessary. MIT experience is preferred. A78-55 (8/30).

Admin. Staff, Asst. Director, in Resource Planning to perform a broad range of educational fundraising activities: identify and evaluate prospective donors, advise Institute officers and others with regard to visits with prospective donors; do an extensive amount of writing including specialized extensive amount of writing including specialized correspondence, proposals and other material. Position may include limited travel and donor contact. At least 3 years' active, consecutive experience in fund-raising, preferably in a university environment, is desirable. A78-56 (8/30).

Admin. Staff, Property Administrator, in the Property Office, Office of Facilities Management Systems to supervise activities of Data Base Manager and Property Data Collector; oversee incorporation of acquired equipment into inventory; collect financial data for use in cost-related calculations; assist in acquiring government surplus property. A Bachelor's degree, including colege level math and accounting course work, or equivalent required. Experience in property management, and computerized systems desirable. At least 1 year's supervisory experience, and certification as a Professional Property Manager desirable. A78-58 (8/30).

Admin. Staff, Property Auditor, Supervisor, in the Property Office, Office of Facilities Management Systems to supervise activities of Property Inven-tory Auditor. Will be responsible for developing and implementing a system for inventory of all of the Institute's moveable equipment; research data recording equipment for prospective acquisition; prepare estimated data for equipment when actual data is not available; reconcile inventory results with existing property records. A Bachelor's degree, or equivalent, and at least 1 year of super-visory experience required. Experience in property management and with computerized systems desirable as is knowledge of scientific and office equipment. Certification as a Professional Property Manager desirable. A78-57 (8/30).

Sponsored Research Staff, Tech. Asst., in Biology to perform administrative and experimental work in large active molecular biology lab: assist in orienting new lab members in experimental procedures safety, etc.; develop procedures, Experimental work involves tissue culture and biochemistry techniques in research on RNA synthesis and processing, regulation of protein synthesis and molecular hybridization. Experience in laboratory research required. A Bachelor's degree is also necessary as are general organization skills. R78-191 (9/6).

Sponsored Research Staff, Computer Programmer Temp., in the Energy Laboratory ASPEN Project to develop an advanced computing system for simulation and design of fossil energy processes: design and code FORTRAN Programs; debug and

test programs; document programs; implement programs; document, programs, implement programs for data management; interface system with IBM-370/168. A Bachelor's degree in science or engineering, or a minimum of 1 year programm-ing experience required. Proficiency in FORTRAN and IBM systems also necessary. R78-193 (9/6).

Sponsored Research Staff, Research Specialist/Research Asst., Temp., in the Center for Policy Alternatives to assemble and reconcile data; develop trend analyses and research hypotheses; write and edit report results. Research involves an analysis of the labor market for scientists, proprietes and technicians, comparison with engineers and technicians; comparison with national trends and evaluation of the potential usefulness of developing a regional forecasting model. A Bachelor's degree, preferably in economics, is required. Econometrics skills desirable. Temporary for 3 months. R78-194 (9/6).

Sponsored Research Staff Project Manager, in the Center for Transportation Studies, to manage joint projects with Energy Laboratory on contingency plans for reducing transportation fuel demands; coordinate and direct interdisciplinary staff; manage all aspects of project and act as primary sponsor contact. Project and agreement experience as well as experience in transportation planning re-quired. A Master's degree or Ph.D. in Civil Engineering or a related field is also necessary. R78-195 (9/6).

Sponsored Research Staff, Project Manager, in the Center for Transportation Studies to work on a project providing technical and operational sup-port to urban transportation demonstration pro-ject. A working knowledge of urban transportation required with particular emphasis on demand responsive systems planning, analysis and opera-tions; integration of fixed and flexibly routed systems; project budgeting; survey methods and data collection. A Master's degree in transporta-tion 'planning, transportation analysis or civil engineering also necessary. R78-196 (9/6).

Sponsored Research Staff, Research Engineer, in the Energy Lab to assist in developing an advanced computing system for simulation and design of fossil energy processes: design and implement computer programs and subsystems; develop computer models of process units in fossil energy systems select computational techniques and strategies for program organization; debug, test and document programs and subsystems; direct technical ac-tivities of undergraduate and graduate students. An advanced degree in chemical engineering or related field (or a Bachelor's degree and at least 1 year's industrial experience), a strong background in process modeling, applied thermodynamics and process design required. Fortran proficiency also necessary. R78-197 (9/6).

Sponsored Research Staff, Radiochemist, in the Nuclear Reactor Laboratory to be responsible for day-to-day operation of Neutron Activation/Radiochemistry Laboratory. Also develop trace analysis methods using neutron activation of various matrices; conduct research in various aspects of trace element analysis. BA or MS in aspects of trace element analysis. By or MS in chemistry required as well as experience in neutron activation, radiochemistry techniques. Experience with other inorganic trace analysis methods and knowledge of nuclear instrumentation and scien-tific computer programming desirable. R78-189 (9/6)

Sponsored Research Staff, Asst. Manager in the Marine Industry Advisory Service of MIT Sea Grant Program. Will assist Manager in develop-ment of MIDAS Program; help manage industrial membership campaign; provide liaison between MIDAS and member companies (answer inquiries, conduct surveys, write drafts of Program publica-tion). Position requires industry experience, with emphasis on new business development and marketing; background in engineering, scientific and business education. Domestrated writing skill also necessary. Familiarity with MIT's marine-related research and/or National Sea Grant Program desirable. R78-187 (9/6).

Sponsored Research Staff, Administrative Officer the Center for International Studies to handle all financial, personnel, purchasing, Physical Plant and other (non-academic) administrative matters for the Center. Will act as primary administrative liaison between the Center and all levels of Institute staff, outside agencies and organizations. A Bachelor's degree in Business Administration or an equivalent combination of education and ex-perience required. Demonstrated financial management experience and experience with MIT administrative procedures desirable. R78-172

Sponsored Research Staff, in the Division for Study and Research in Education to assist in teacher development research project; assist project coordination in scheduling; participate inobserve teacher training seminars; assist in development of insights and skills of cognitive selfreflection. Experience in teaching, observir children and teachers and training in evaluation skills required. R78-178 (8/30).

Sponsored Research Staff, Project Coordinator, in the Division for Study and Research in Education to coordinate a teacher development project to schedule teacher seminars, classroom observations and development of trial teacher training materials; participate and observe teacher training seminars; assist in development of insights and skills of cognitive self-reflection; assist in write-up skills of cognitive self-reflection; assist in write-up-of research results. Experience as teacher, super-visor of teachers, observer of teachers and children and evaluation of curricula and classroom perfor-mance required. Training in cognitive psychology and music required. R78-179 (8/30).

and music required. K/8-1/9 (8/30).

Sponsored Research Staff, Medical Technologist in small Clinical Research Center Laboratory to perform clinical tests on patients in 12-bed research unit and on research studies done on an outpatient basis. Will be working with various types of automated equipment, as well as a PDP-12 computer system performing hematology, clinical microscopy and chemistry tests. Bachelor's degree plus graduate of an accredited school of Medical Technology with ASCP registration required, as well as 2-3 years' experience in a hospital laboratory. Candidate must be reliable and able to didate must be reliable curately with minimal supervision. R78-

Sponsorea Research Staff, Research Engineer in the Artificaial Intelligence Laboratory to work on LISP programming and hardware development. Several years' experience with LISP programming, SUDS drawing, programming and commissions. SUDS drawing, programming and co hardware design required. R78-184 (8/30).

Sponsored Research Staff, Admin. Asst., Editor in the MIT Sea Grant Program, to assist the Com-munications Officer to participate in dis-seminating research results to various audiences in the marine research community. Will edit technical material for comprehension by varied users; prepare articles, summaries and printed literature; supervise printing production; act as media liaison. Strong journalistic skill and training, and preferably professional experience required. Bachelor's degree, or equivalent in sciences or journalism also necessary. R78-177 (8/30).

Sponsored Research Staff, Experimental Plasma Physicist (temporary), in the National Magnet Laboratory to conduct postdoctoral research in the area of laser produced plasmas in magnetic fields. set up plasma diagnostic equipment and interpret data for a number of experiments. Will contribute to the conceptual development and implementa-tion of advanced plasma diagnostic techniques for laser-produced plasmas. A PhD in plasma physics, quantum electronics or related fields required Familiarity with laser-produced plasmas and high energy CO lasers desirable. Temp. for 1 year. R78

Exempt, Dental Hygienist, in the Medical Dept. to perform initial examination and charting: prophylaxis, periodontal treatment, plaque con-trol, taking and processing dental x-rays, screening emergencies, and patient education. Must be Registered Dental Hygienist. Excellent interpersonal skills also necessary. Bachelor's degree and some periodontal care experience preferred. 37.5 hrs./wk. E78-42 (8/30).

Magnet Laboratory to assist in the National Magnet Laboratory to assist in the design and supervision of high performance water-cooled and superconducting magnet systems; design and specify tolerances and components for high pressure, high velocity water-cooling systems and for cryogenic and vacuum equipment. Experience in the design of mechanical equipment and knowledge of engineering materials, manufacturing processes and assembly techniques required. Ability to make calculations of stress, heat Ability to make calculations of stress, heat transfer, thermal deformations and electrical current flow also required. Experience in the design of magnetic systems desired. E78-43 (8/30).

Exempt, Admin. Asst. in Clinical Research Center responsible for operations management of Center and to supervise some clerical employees Center and to supervise some cierical employees. Will coordinate and help prepare research proposals, annual reports and other documents. BA or BS degree or equivalent is required. Experience in hospital administration is preferred, especially in cost accounting systems. E78-46 (8/30).

Exempt. Asst. Accountant, in the MIT Press to Exempt, Asst. Accountant, in the MII Press to maintain detailed inventory accounting records, including job cost records and for books in process and the computerized perpetual/inventory of bound books; assist in preparation of monthly financial statements and budget/actual comparisons; reconcile accounts and general ledger parisons; reconcile accounts and general reager, calculate sales commissions; prepare special title sales analyses and financial or cost analyses. Bachelor's degree in accounting including cost accounting or equivalent work experience required ful. E78-47 (8/30)

Exempt, Admin. Asst., for the Medical Dept. Psychiatric Service to assist in the overall administrative operation of the Service, and directly supervise Service secretaries. Good organization skills, ability to deal with complexity in coordinating administrative activities required. Supervisory experience is preferred, as is a history of progressively responsible positions. Institute experience is desirable. E78-48 (8/30).

Acctg. Asst. V in the Comptroller's Accounting Office. Sponsored Accounting Section to perform in-ternal cost audits on research programs; prepare monthly invoices and fiscal reports; assist in case flow and forecast functions. General business now and forecast functions. General business background required, as well as 2-3 years applied accounting experience and 2 years college or business school training. Must be able to communicate effectively with department supervisors. B78-508 (9/6).

Tech. Asst. V in the Alumni Association to be responsible for input to data bank of various alumni records; supervise operation and operate an Inforex key to disc system; prepare tapes for file update and edit; prepare annual computer service departments. At least 3 years' keypunch or key to experience required as well as overall familiarity with data processing systems. B78-523 Account Asst. V in the Medical Dept. to be respon-

sible for Dept.'s accounting system and direct supervision of the Accounts Receivable Unit. Some

college training in business administration or ac-counting or equivalent and 1 year's accounting and supervisory experience required. Knowledge of health insurance reimbursement and data processing systems preferred. B78-500 (8/30). Tech Asst. IV, Part-time, in Psychology to assist in cognitive psychology experiments; run experimen-tal sessions with 2 to 16 year-old children; code and analyze data; act as school liaison. Bachelor's degree is preferred. Research experience in nitive psychology helpful. 30 hrs./wk. B78-502

Secretary V in the Civil Engineering Dept. to perform difficult and complex secretarial work for senior faculty member: handle correspondence; compose letters; organize meetings; prepar-teaching schedules; act as liaison; maintair records; welcome and assist newcomers to MIT ad justments; train and counsel new secretaries; coor dinate administrative details of academic dinate administrative details of academic secretarial services; devise administrative procedures for academic aspects of division. Excellent secretarial and organizational skills and ability to work under pressure required. At least 5 years' secretarial experience, including some editing and publications producing also required. Knowledge of MIT, engineering terminology and background in teaching English to foreigners desired. B78-499 (9/6).

Secretary V to the Director of the Clinical Research Center to handle duties related to ad-Research Center to handle duties related to ad-ministration of the Center: maintain patient and administrative files; coordinate grant and proposal preparation; compose and type correspondence; take meeting notes. Excellent secretarial skills ni-cluding shorthand, demonstrated organization skill required. At least 5 years' secretarial ex-perience preferred. B78-460 (8/30).

Sr. Secretary V in the Chairman's Office: coordinate appointment calendar; maintain filing system; answer phones and inquiries; maintain petty cash. Excellent communication skills, ability to establish priorities, good typing skill and ability to work under pressure required. 37½ hrs./wk B78-466 (8/30).

Secretary V, temporary, to Department Head, Psychology Dept. Will maintain all teaching and research files; monitor grant expenditures; perform duties to assist Graduate Admissions Committee including answering inquiries from prospective students; maintaining related records. Excellent typing and shorthand skills as well as substantial secretarial experience required. Temporary for approximately 3 months. B78-468 (8/30).

Secretary IV/V in the Physics Dept. to 2 faculty members and several research students; write research proposals; advise students; interact with wide range of offices, personnel and committees; greet visitors; monitor accounts; write manuscripts eches: maintain records, files, and library arrange travel. Excellent secretarial and organizational skills and ability to set priorities required. B78-480 (8/30).

Secretary IV-V in the Analytical Studies and Plan-Secretary IV-V in the Analytical Studies and Plan-ning Group, Office of the President and Chancel-lor. To provide secretarial and administrative sup-port for ASPG staff members working on various projects for the central administration and the faculty committees. Position requires excellent organizational skills, discretion, exceptional typing and proofreading skills, willingness to assume responsibility, ability to anticipate needs and to set priorities and to work both independently and set priorities, and to work both independently and as part of a team. Work includes arranging and coordinating appointment and meeting schedules, provision of basic information on committee procedures to students, general typing (including some lengthy reports), maintaining files, monitoring financial records, and providing assistance on ing financial records, and providing assistance on special projects. Assistance in the area of Campus Information Services also necessary. Ability mormation Services also necessary. Adding to work under pressure required. Some college experience helpful. Secretarial training and reasonable experience working in business or industry highly desirable. Position requires occasional overtime. 37.5 hrs./wk. Non-smoking office. B78-525 (9/6).

Secretary IV to 3 Economics Dept. faculty members to type and distribute correspondence, manuscripts, including technical content and other material; maintain files; arrange travel; check library references. Applicants should be able to handle several projects simultaneously, have good secretarial skills and formal secretarial training or experience. Shorthand helpful. B78-517 (9/6).

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Secretary IV. part-time, to four faculty members in Architecture who are involved in research and teaching on visual design, urban settlement in developing countries, and urban housing. Will type correspondence, manuscripts; maintain files and records; arrange travel and meetings. Good typing, whilt the work with a wide range of people reability to work with a wide range of people required. 17.5 hrs./wk. Afternoon schedule preferred. B78-521 (9/6).

Secretary/Typist IV, part-time, in Civil Engineer ing to independently respond to correspondence; process publication requests; maintain a division library; type technical reports; file; answer phones. Good typing skill, ability to organize and to type technical material required. 20 hrs./wk. B78-524

Secretary IV to faculty and staff research group in Earth and Planetary Sciences to arrange travel and appointments; maintain files; type course materials; manuscripts. Excellent typing, English grammar skills, ability to set priorities required. Position requires some overtime. B78-506 (9/6).

Secretary IV, part-time, in the Center for Inter-national Studies to answer phones; schedule ap-pointments and travel; set up and monitor budgets; organize and maintain research records. Good general secretarial skills required Knowledge of Russian or other languages and col-lege training helpful. 24 hrs./wk. (Mon. thru lege training helpful Thurs.) B78-509 (9/6).

Secretary IV to 3 faculty members in the Sloan School of Management will type general cor-School of Management will type general cor-respondence; answer phones, file; maintain course records; prepare course materials; type manuscripts including technical content; arrange travel. Good typing including some experience in technical typing required. Ability to work in-dependently and to exercise initiative also necessary. B78-511 (9/6).

Secretary IV in the Laboratory of Architecture and Secretary IV in the Laboratory of Architecture and Planning to manage document distribution systems; maintain mailing lists; prepare correspondence; answer inquiries for Program information; maintain project status records; performal general secretarial duties. Strong organizational ability required as well as excellent secretarial skills. B78-519 (9/6).

Secretary IV, part-time, to 2 faculty members in Nutrition and Food Science to perform statistical as well as general typing duties; answer phones maintain files; arrange travel. Will transcribe handwritten drafts as well as machine dictation. At least 1 year's secretarial experience required. 20 hrs/wk. B78-513 (9/6).

Secretary IV in the Center for Advanced Engineering Studies to assist 3 staff members: maintain biling system; schedule use of facilities; edit and type reports, correspondence; maintain account records; order supplies and equipment. Position requires at least 3 years' secretarial experience, good general secretarial, editorial skills required. B78-515 (9/6).

Secretary IV, part-time, to two Economics faculty secretary IV, part-time, to two Economics faculty members: type correspondence, course material; arrange appointments and travel; prepare course and registration materials. Good typing skill required as well as knowledge of or willingness to learn technical typing. 25 hrs./wk. B78-516 (9/6).

Secretary IVto perform secretarial duties in sup-port of the development of new health-related research programs and management of research grants within the Harvard-MIT Division of Health Sciences and Technology. Duties include a broad range of office activities and assistance in the plan-ning and supervision of proposal preparation. Responsibilities include editing and typing of cor-respondence; maintaining records and files including confidential information and participation cluding confidential information and participation in various meetings. Good writing, editing and typing skills required. Ability to tactfully handle a wide variety of phone calls as well as skills in shorthand/speedwriting desirable. Other activities include arranging appointments, composing correspondence, verifying the accuracy of information, following progress of projects, initiation of fallowing activities. follow-up progress or projects, initiation of follow-up activities. Applicants must have the ability to work independently as well as to interact with personnel of affiliated educational institutions and medical facilities. Non-smoking office. B78-275.

Secretary IV in the Laboratory for Computer Science to provide general secretarial support to a senior faculty member: type manuscripts; cor-respondence; edit-text through use of computer; arrange travel and appointments; assist in prepar-ing course material. Position includes student coning course material. Position includes student con-tact. Applicants must be able to take responsibility for overall office operation; initiating procedures as necessary. Will eventually provide secretarial sup-port to an additional faculty member. Machine transcription, typing skill required. Experience with computer text editing is helpful, but selected applicant can be trained. B78-457 (8/30).

Secretary IV, part-time, in Architecture Dept., Environmental Policy and Design Program to share in providing secretarial services to a student/faculty providing secretarial services to a student/raculty research group: prepare course materials; schedule meetings and appointments; type; operate word processing equipment. Position requires excellent typing, organization and interpersonal skills. 15 hrs./wk., mornings. B78-465 (8/30).

Secretary IV to a Biology Dept. faculty member to perform secretarial duties related to the operation of a 25 person research laboratory and to supervisor's other academic responsibilities: type correspondence, manuscripts, proposals machine dictation or handwritten draft; order sup plies and administer petty cash and other routin office procedures. Excellent typing skill as well a secretarial experience required. B78-397 (8/30).

Secretary IV to 3 or 4 faculty members in the Ocean Engineering Dept. to type correspondence, technical reports, class material from hand written draft and tape; maintain files; monitor account expenditures; maintain petty cash; prepare travel vouchers; arrange travel; schedule appointments vouchers; arrange traver; schedule approved a serox; perform occasional library work. Good secretarial skills, ability to transcribe from tapes secretarial skills, ability to transcribe from tapes required. Technical typing skill and knowledge MIT procedures helpful. B78-489 (8/30).

Secretary IV to 2 faculty members in the Civil Secretary IV to 2 faculty members in the Civil Engineering Dept. to type technical material; ar-range travel; organize and arrange schedules for seminars and meetings; handle routine inquiries; file; maintain accounts. Technical typing skill or willingness and ability to develop skill required. B78-484 (8/30).

Secretary IV, part-time, to one MIT professor, one visiting professor and their research assistants to maintain a small library of reports and related materials; type correspondence, class notes maturalis; type correspondence, class notes, manuscripts, proposals, reports, etc.; file, xerox, make travel arrangements. Applicant must have good general secretarial skills. Technical typing ability and knowledge of MIT preferred. 20 hrs./wk. B78-487 (8/30).

Secretary IV to 3 faculty members in the School of Humanities and Social Science to handle all general secretarial duties including dictation and arranging travel and meetings. Will occasionally assist other faculty and Dean's Office with typing. Knowledge of French, German or Italian is helpful Applicants must have typing and transcript ability. B78-470 (8/30).

Secretary IV to 3 faculty members in the Manage ment Science Group, Sloan School, to handle all general secretarial duties including typing from machine dictation, preparation of class material, formatting of drafts and final typing. Will independently answer inquiries from students and others. Excellent general secretarial skills, ability to do minor editing and proffreading require Technical typing skill desirable. B78-463 (8/30)

Secretary IV to Coordinator of Alumni Career Ser vices, Career Planning and Placement Office. Will

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correspond with alumni independently and on behalf of supervisor; develop job descriptions; maintain records and mailing list; act as receptionist in division; interact with company representatives, alumni and other visitors. Strong typing skill, interest in and ability to understand and transmit employment-related information to others required. B78-501 (8/30).

Secretary IV for a large research group in the Laboratory for Computer Science to attend grades meetings; explain graduate program requirements to students; compose letters; maintain records. Excellent typing, interpersonal and communication skills required, as well as willingness to learn computer to the second state of the second seco puter text editing. Non-smoking office. B78-483 (8/30).

Secretary IV in the Medical Dept. to provide reception and secretarial support to a health care team consisting of 2 physicians: answer phones; schedule appointments; order medical records; coordinate lab tests form preparation; transcribe medical case histories; handle routine correspondence and administrative reports; arrange travel; file; handle mail; may chaperone routine medical exams. Excellent tuning, interpreparal and comparational cellent typing, interpersonal and organizational skills and the ability to transcribe medical terminology required. Previous secretarial experie also required. 37.5 hrs./wk. B78-493 (8/30).

Secretary IV to faculty members in the System Dynamics Group, Sloan School; to handle varied typing duties using word processing equipment an-d/or typewriter (manuscripts, proposals, class materials); edit typed material; answer phones; arrange for printing and audio-visual services; handle minor research duties related to projects. Position requires the ability to organize projects and to handle detailed assignemtns. A good command of Engoish grammar and the ability to work oc-casional overtime also necessary. B78-408, B78-409

Secretary III-IV, part-time, temporary, in Meteorology, to type and edit course material; reorganize filing system and maintain files; type correspondence; answer phones. Position involves student contact. Ability to exercise initiative, organization, and typing skills required. 20 hrs./wk., temporary for approximately 3 1/2 months. B78-522 (9/6).

Secretary III/IV in the Arteriosclerosis Center to Secretary IIIIV in the Arterioscierosis Center to type correspondence, medical consults, manuscripts and technical material; answer phones and inquiries; schedule appointments; per-form related bookkeeping duties. Excellent typing and machine transcription skills, medical ter-minology, bookkeeping experience and knowledge of 3rd party billing required. B78-488 (8/30).

Secretary III/IV part-time, in Chemical Engineer Secretary IIII/V part-time, in Communications ing to a faculty member: type manuscripts, correspondence; arrange travel; schedule appointments; transcribe machine dictation. Good organization, communication and typing skill required. Non-smoking office. 20 hrs./wk. B78-503

Secretary III/IV in the Center for Materials Science secretary IIII/V in the Center for Materials Science and Engineering Administrative Office. Will type budget materials, correspondence; answer phones; schedule meetings and appointments; compile reports; assist other secretary as necessary. Will also perform work related to special projects (preparation of directories, mailing lists, etc.). Typing skill, ability to handle a varying work load and to work as part of a team required. R78, 459 d to work as part of a team required. B78-459

Secretary III/IV in the Ocean Engineering Dept. to 2 faculty members and their research assistants to type correspondence, technical reports, proposals class notes, etc.; xerox; file; arrange travel monitor account expenditures; set up seminars an arrange for coffee and refreshments. Good secretarial skills required. Knowledge of MI procedures and technical typing experience help ful. B78-490 (8/30).

Secretary III/IV to a number of faculty members in the Ocean Engineering Dept. to answer phones; maintain appointment calendars; arrange travel; xerox; type correspondence, reports, class notes; file. Good typing skills required, technical typing skill preferred. B78-485 (8/30).

Clerk III, part-time, in Comptroller's Accounting Office to post apartment rents; prepare accounts receivable report; reconcile various statements; perform cash reconciliations; file; type; handle accounts payable and sales breakdowns. Good typing skill and knowledge of bookkeeping required. 25 hrs./wk. B78-338 (7/12).

Secretary III in the Office of Facilities Manage ment Systems to perform secretarial duties for OFMS as well as for the Property Office. Will type correspondence, reports, forms, handle clerical duties related to equipment data system; distribute property lice. tribute property lists; prepare newspaper notices of surplus property; xerox and file; reconcile budget surplus property; xerox and file; reconcile budget statements. High school training, 1 or more years' secretarial experience required. Good typing and machine transcription skills required. B78-472 (8/30).

Secretary III, temporary, in the Career Planning and Placement Office to sign up students for interviews; handle mail; collect and process home registry cards; develop and update foreign student registry cards; develop and update loreign student directory; sort and file student sign-up cards; compile summer hiring lists; type schedules and lists. Accurate typing skill, ability to work effectively with a number of people, reliability and ability to work under pressure required. Temp. thru 4/1/79.

Secretary III in the Ocean Engineering Dept. to two faculty members and several research staff members to type correspondence, class notes, proposals, reports, etc; file; xerox; arrange travel schedule appointments; monitor accounts. Good typing skill required. Familiarity with office procedures helpful. B78-486 (8/30).

Secretary III in the Office of the Dean, School of Architecture and Planning to handle a full range of secretarial duties including the collection of statistics; greeting and assisting Office visitors; maintaining supplies; transcribing machine dicta-tion and assisting in propagation for social function and assisting in preparation for social func-tions. In addition to excellent secretarial skills, applicants should be able to manage several projects simultaneously. B78-495 (8/30).

Sr. Library Asst. V in the Libraries to take respon sibility for transfer of collections to storage and related clerical duties; schedule transfers; assist in related ciercial duties; schedule transfers; assist in planning organization of storage areas; conduct in-ventories; train student assistants; resolve process-ing problems. Library processing experience re-quired. Strong organization skill also necessary. College training preferred. B78-514 (9/6).

Library Asst. III in the Libraries Circulation sec tion to inspect charge dates of library material; provide information to visitors; write overdue notices; file cards; perform related clerical duties as necessary. High school graduation, or equivalent, required as well as clerical aptitude and ability to work for periods without supervision.

Lib. General Asst. III. part-time, in the Rotch Library, public service section to share responsibility for all functions of circulation desk (charging books, searching for missing items, recording statistics). Will also handle reserves duties (identifying, retrieving, processing material). Handle other general duties including filing in card catalog. Applicants must have the ability to effectively assist users, and to identify bibliographic catalog. Applicants must have the ability to effec-tively assist users, and to identify bibliographic resources in card catalog and other sources. Typing skill also necessary. Position is for 30 hrs./wk., with a work.schedule primarily in evenings and on weekends. 11 month/year position. B78-435 (8/30).

Clerk Typist IV in the Resource Planning and Development Office to complete Bi-Weekly Ad-justment Report; obtain and distribute payroll checks; occasionally handle payments, purchase orders; handle mail; act as key operator for xero-machine; perform reception duties; answer phones; maintain supplies; file. Excellent typing, filing and organizational skills and ability to handle several assignments at a time required. B78-474 (8/30). Clerk IV, proofreader/publications coordinator, in the Development Office, Resource Planning, to proofread a wide variety of material; process re-quests for publications and assure that adequate supplies are on hand; assist administrators with typing, filing. Strong organization skill as well as typing and proofreading ability required. B78-475 (8/30).

Sr. Clerk IV, Asst. Designer, in the M.I.T. Press, to design books and jackets; check page proofs; mark up manuscripts; design and paste up ads or alter up manuscripts; design and paste promotional material. A BFA degree

Tech. Typist IV, Mag Card Operator, in Economics to type technical manuscripts, general correspondence and other material as necessary Ability to operate Mag Card II and to type technical material required, B78-518 (9/6).

Clerk III, part-time, in the President's Office, to xerox, sort and deliver mail; file. Applicants mus have the ability to handle detail with a high degree of accuracy and to exercise discretion. 2 hrs./day (afternoon, M-F). B78-504 (9/6).

Clerk III in the Registrar's Office to assist in the term III in the negistrar s Office to assist in the registration of students; assist in maintaining student records; use record keeping computer terminals; type form letters; file. Typing skill, facility with detailed work and accuracy with figures required. College training or working experience in a college environment is desirable. B78-464 (8/30).

Clerk Typist/Receptionist III, part-time, in the Naval Science Dept. to answer phones; greet Naval Science Dept. to answer phones; greet visitors; answer student inquiries; type; maintain records and files; maintain master co mputer data recorus and Hies; maintain master computer data file. Good typing and interpersonal skills, ability to set priorities and flexibility required, as well as familiarity with keypunching. High school gradua-tion also required; secretarial school or equivalent work experience preferred. 20 hrs./wk. M-F, 9-1. B78-462 (8/30).

Receptionist III in the Center for International Studies to answer phones and inquiries; take mes-Studies to answer phones and inquiries; take mes-sages; sort mail; route phone calls; forward mail; address and stuff envelopes; greet visitors; type. Typing skill and good interpersonal skills required. B78-492 (8/30).

Service Asst. III in the Sloan School coffee room to make coffee and collect money. Must be able to handle money with accuracy and to deal with the public, 14 hrs./wk. (Wed, and Fri.) B78-496 (8/30).

Asst. Computer Operator III, in Administrative Computing Services to operate IBM 370/148, DOS and VSI, and EAM, perform all preoperational, operational and post operational duties; detect errors, and take corrective action, as necessary. At least 3 month's experience in operation of above least 3 month's experience in operation of abore equipment required. 40 hrs./wk. B78-498 (8/30).

Service Asst. II, Part-Time, in Earth & Planetary Sciences to prepare tea and coffee; set up refreshments; run dishwasher; clean small kitchen and lunge; order supplies. Must be reliable and courteous. 15 hrs./wk., 2-5pm, Mer. Position is for academic year only, through May 1979. B78-458 (8/30).

Cashier II in the Food Service Dept. to check contract meals from master list; give and receive transfers from other units; maintain accurate accounting of each contract customer by meal; explain policies; answer inquiries. High school graduation preferred. Command of English language required. B78-482 (8/30).

Diet Aid II in the Clinical Research Center to be responsible for procedures used in preparing, weighing, cooking and serving food for 10-15 patients on metabolic diets as well as regular diets; responsible for cleaning and sanitation practices in the kitchen and storage areas; handle dietician's duties in her absence. High school graduation required. Experience in food service preferred. B78-491 (8/30)

Hourly, Waiter/Waitress in the Faculty Club to take members' orders; pick up food in kitchen and serve to members; clear and reset tables and per-Applicants must be at least 18 years of age, and able to speak and read English. 20 hrs./wk., 11 AM-3PM. Non.-Fri. with some weekend shifts possible, H78-128 (8/16).

Hourly, Waiter, Waitress, Part-time, in the Faculty Club to take orders; pick up and serve food; reset tables and perform related duties. Must be able to read and speak English and be at least 18 years of age. 20 hrs./wk., 11 a.m.-3 p.m., M-F. May include weekend work. H78-145 (9/6).

Hourly, Cook's Helper, in the Food Service to prepare food; stock and set up work station; maintain a clean and sanitary work station; handle related duties as necessary. Applicants must be able to read and speak English, and to compute increase or decrease of standard recipes. Experience in quantity food preparation necessary. H78-138 (9/6).

Hourly, Campus Patrol Officer, required 3-5 years experience in all phases of law enforcement (criminal law, court procedures, criminal investigation; report writing). Must obtain and maintain Emergency Medical Technician Certification. Must have successfully completed Police Academy training and must successfully complete any additional in-service training, must qualify with use of fire arms, maintain valid fire arms permit and valid drivers license. Additional requirements: security clearance, policy authority warrant under Chapter 147 10-G and the ability to pass Institute physical exam. 40 hrs./wk. Permanent shift assigned based on seniority. Position includes long hours occasionally. H78-136 (8/30), H78-146 (9/6).

Hourly, Pot Washer, in the Food Service to clean rioury, Fot Wasner, in the rood Service to clean all wares and equipment in the pot washing area, and to clean area floors and refrigeration units. Will also be responsible for daily cleaning of dining and serving areas and other related duties as directed. Applicants must be able to read and ish Some experience working in kits hlepful. 40 hrs./wk., 11:30 am-8:30 pm, M-F. H78

Hourly, Tech. B (Electronic), in the Center for Advanced Engineering Study to repair television cameras, video decks and associated video prodution equipment and other related duties. Appli-cants should be graduates of 2-year day technical school, or equivalent. A knowledge of video waveforms, production, including audio, lighting and portable remote setups is helpful. H78-137

Hourly, Sr. Tech., in the Gas Turbine and Plasma Dynamics Laboratory of Aeronautics and Astronautics to be responsible for operation of transient wind tunnel including continual tunnel modification and construction of new mechanical experiments. Will work from verbal instructions and minimal sketches. Will work with students and supervise other personnel. Graduation from a 2-year day technical school, or its equivalent, and at least 5 years applicable experience required. Extremely strong mechanical background quired, including expertise with machine tools, welding, brazing and assembly. Selected applicant will be required to get Mass. State Blasting Per-

Hourly, Technician A, to assist in design, fabrica-Hourly, Technician A, to assist in design, tabrica-tion, operation and maintenance of large, combus-tion driven MHD experimental facility in the Energy Lab, Will select, modify install, check and operate electrical equipment, hydraulic and pneumatic systems; collect data; do occasional machining, welding and silver soldering and other fabrication processes. Applicants must be 2 year day technical school graduates and have at least years applicable experience in research and development lab. The ability to understand technical aspects of equipment and components and considerable skill to maintain equ make repairs are also necessary. H78-35 (3/22)

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

ADMINISTRATIVE STAFF: A77-3, Systems Programmer, Information Processing Serv. (2/16)
A77-86, Systems Programmer, Information Processing Serv. (1/11)
A78-14, Asst. Dir., MIT Associates Program (4/12)

A78-20, Admin. Staff, Alumni Association (5/3) A78-22, Admin. Staff, Student Financial Aid Of-

fice (5/10) A78-27, Admin. Staff, Auditor, Audit Division

A78-30, Admin. Staff, Design Manager, MIT A78-38, Admin. Staff, Systems Programmer, In-

formation Processing Serveces (8/30) A78-44, Admin. Staff, Industrial Liaison Officer (8/30)

A78-49, Admin. Staff, Financial Aid Officer (8/30)

(8/30) A78-51, Admin. Staff, Sr. Consultant-Trainer, Personnel Development (8/30) A78-53, Admin. Staff, Director of Video Opera-tions & Educational Video, Office of Provost (8/30) A78-54, Admin. Staff, Asst. to the Director, Career Planning & Placement (8/30)

BIWEEKLY: B77-655, Sec. IV, Chemical Engineering (11/16) B78-4, Sec. IV, Civil Engineering (1/18) B78-129, Sec. IV, Biology (4/12) B78-139, Sec. IV, Physics (7/12) B78-143, Clk./Typist IV, Resource Planning Of-

fice (4/12) B78-154, Sec. III/IV, Lab for Nuclear Science

B78-160, Sec. IV, Center for Policy Alternatives /19) B78-165, Sr. Accg. Clerk IV, Sloan School (7/26) B78-166, Sec. III/IV, Student Financial Aid Of-

B78-167, Sec. III/IV, Mechanical Engineering B78-178, Sec. IV, Provost's Office (4/26)

B78-185, Account Rep. V, Administrative Com-

B78-185, Account Rep. V, Administrative Computer Serv. (4/26)
B78-275, Sec. IV, Harvard-MIT- Division of Health Sciences & Technology (6/7)
B78-293, Sec. IV, Medical Dept. (6/21)
B78-302, Sec. IV, Resource Development (7/12)
B78-306, Sec. IV, Research Laboratory of Electronics (7/12)
B78-314 Sec. IV, Libergies (7/12)

Electronics (1/12)
B78-314, Sec. IV, Libraries (7/12)
B78-317, Sec. IV, Center for Transportation
Studies (7/12)
B78-318, Sec. IV, Sec. IV, Mechanical Engineer-

ing (7/12) B78-326, Sec. IV, Division for Study & Research in Education (7/12)

B78-328, Sec. IV, Humanities (8/16) B78-329, Sec. IV, Part-time, Medical Dept.

B78-343, Secretary IV, Energy Lab (7/26) B78-349, Editorial Asst. IV, Center for Transportation Studies (7/26)
B78-357, Sec. IV, Aero/Astro Dept. (8/16)
B78-371, Sec. IV/Admin. Asst. V, Provost's Of-

fice (8/16) B78-374, Sec III/IV, Center for Cancer Research (8/16) B78-380, Tech. Asst. V, Division of Lab. Animal

B78-382, Sec. V, Physics (8/16) B78-387, Sec. IV, Materials Science & Engineer-

ing (8/16) B78-392, Sec. IV, Division for Study & Research B78-392, Sec. IV, Division for Study & Research in Education (8/16)
B78-395, Sec. V, Chemical Engineering (8/30)
B78-396, Sr. Clerk/Receptionist III, Office of Personnel Serv. (8/30)
B78-400, Clerk III, Registrar's Office (8/30)
B78-407, Sec. IV, Lab. of Architecture & Planning (8/30)

ing (8/30) B78-414, Sr. Clerk/Keypunch Operator III, Tem-

orary, Office of Personnel Services (8/30) B78-416, Sec. IV, Nutrition & Food Sciences B78-423, Sec. III, Sloan School of Management

930) B78-428, Sec. III/IV, Energy Laboratory (8/30) B78-429, Sec. IV, Center for Policy Alternatives

B78-431, Sec. IV, Division of Health Sciences & echnology (8/30) B78-432, Sr. Clerk IV, Medical Dept. (8/30) B78-436, Sec./Receptionist III, Math Head-

quarters (8/30) B78-438, Sec. III/IV, Lab. for Computer Science

B78-440, Sr. Clerk IV, Alumni Records Office B78-441, Sec. III, Part-time, Dean for Student Affairs' Office (8/30) B78-445, Sec. IV, Center for Space Research

(8/30)8/30)
B78-450, – Xec. IV, Part-time, Technology & Julture Seminar Office (8/30)
B78-451, Tech, Asst. IV, Biology Dept. (8/30)
B78-453, Sec. IV, Nutrition & Food Sciences

B78-454, Clerk III, Resource Planning & Development Office (8/30) B78-494, Sec. IV, Patent & Copyright Office

(8/30)ACADEMIC STAFF:

C78-5, Asst. Eng. Librarian, Engineering Library (4/5) C78-6, Asst. Eng. Librarian, Engineering Library (4/5) C78-9, Asst. Science Librarian, Libraries (4/19)

C78-12. Acad. Staff. Technical Instructor.

C78-12, Acad. Staff, Technical Instructor, Iechanical Engineering (6/7)
C78-14, Acad. Staff, Librarian, Part-Time, ibraries Exchange & Gifts Sections (5/10)
C78-17, Acad. Staff, Research Associate (7/12)
C78-18, Acad. Staff, Nurse Practitioner/Physical Acad. Staff, Nurse Practitioner/Physical Acad. Staff, Nurse Practitioner/Physical Staff, Nurse Practitioner/Physi

cian Asst. (7/12)

cian Asst. (7/12)
C78-19, Acad. Staff, Archival/Manuscript
Specialist, Libraries (7/12)
C78-20, Acad. Staff, Archival/Manuscript
Specialist, Libraries (7/12)
C78-21, Acad. Staff, Archival/Manuscript
Specialist, Libraries (7/12)
C78-22, Acad. Staff, Asst. Librarian, Libraries (8/16)

C78-23, Acad. Staff, Marketing Representative, Medical Dept. (8/30)

EXEMPT

E77-54, Exempt, Eng. Asst., Center for Material cience (7/12) E77-56, Estimator/Scheduler, Physical Plant

(11/9) E78-19, Eng. Asst., Earth & Planetary Science

(5/3)
E78-24, Exempt, Food Production Supervisor, Food Service (6/7)
E78-27, Exempt, Admin. Asst., Libraries, Microreproduction Lab (6/14)
E78-35, Exempt, Tech. Supervisor, Physical Plant/Telecommunications Dept. (8/16)
E78-36, Exempt, Principal Operator, Physical Plant (9/16) Plant (8/16)

E78-40, Exempt, Undergraduate Research Opportunity Program Office (8/30) H77-89, HVAC, Designer/Draftsperson, Physical

H78-23, Machinist A, Nutrition & Food Science 3/8) H78-64, Sr. Technician, National Magnet aboratory (5/31) H78-99, Sheet Metal Worker, Physical Plant

H78-100, H78-101, Painter, Physical Plant (7/26) H78-106, Sr. Technician Electronic, National lagnet Lab. (8/16) H78-115, Audio Visual Operator B, Graphic Arts

SPONSORED RESEARCH STAFF: R77-53, Spons. Res. Staff, Res. Lab. of Electronics (4/12) R77-79, Postdoc. Res., Physics, Lab. for Nuclear

Nuclear Science (5/18) R77-97, Chemical Engineer, Energy Laboratory (6/1) R77-112, Spons. Res. Staff, National Magnet

Lab. (8/19) R77-137, Experimental Physicist, Bates Linear Accelerator (8/31) R77-161, Elec. Engineer, Mechanical Engineer-

ing (9/7) R77-201, Prog./Data Analyst, Earth & Planetary cience (10/26) R77-209, Res. Scientist, Energy Laboratory

(11/30)
R77-211, Computer Systems Design, Lab. for Computer Science (12/7)
R77-212, Prog. Language Design, Lab. for Computer Science (12/7)
R77-213, Computer Software Design, Lab. for

Computer Science (12/7) R77-221, Spons. Res. Staff, Nutrition & Food

R77-228, Plasma Physicist, Res. Lab. of Electronics (1/4)
R77-230, Computer Software Designer, Lab. for Computer Science (1/11)
R78-18, Theoretical Physicist, Lab. for Nuclear Science (1/20) ce (2/22)

R78-19, Theoretical Physicist, Lab. for Nuclear R78-20, Theoretical Physicist, Lab. for Nuclear R78-20, Theoretical Physicist, Lab.

cience (2/22) R78-21, Theoretical Physicist, Lab. for Nuclear Science (2/22) R78-22. Theoretical Physicist, Lab. for Nuclear nce (2/22)

R78-28, Theoretical Physicist, Lab. for Nuclear cience (2/22) R78-55, Staff Scientist, Arteriosclerosis Center

(4/5) R78-58, Spons. Res. Staff, National Magnet Laboratory (4/12) R78-60, Combustion Engineer, Energy Lab. R78-64, Spons. Res. Staff, Earth & Planetary

R78-70, Energy Analyst, Energy Laboratory (4/12) R78-68, International Energy Economist, Energy Laboratory (4/12) R78-70, Energy Analyst, Energy Laboratory

(4/12)R78-73, Computer Programmer, Energy Laboratory (5/10) R78-79, Spons. Res. Staff, Mechanical Engineer

R78-79, Spons. Res. Staff, Mechanical Engineer (4/19)*
R78-81, Spons. Res. Staff, Lab. for Nuclear Science (4/19)
R78-82, Spons. Res. Staff, Lab. for Nuclear Science (4/19) 78-83, Spons, Res. Staff, Lab. for Nuclear ence (4/19) R78-83.

34, Spons. Res. Staff, Lab. for Nuclear (4/19) R78-84. R78-85, Technical Asst., Nutrition & Food R78-93, Res. Engineer, Civil Engineering Dept.

R78-101, Spons. Res. Staff, Lab. for Nuclear Science (5/31) cience (5/31)
R78-102, Spons. Res. Staff, Lab. for Nuclear (5/31)
R78-103, Spons. Res. Staff, Lab. for Nuclear (science (5/31)
R78-104, Physicist, Temp., Lab. for Nuclear (5/61)

Science (6/7) R78-105, Physicist, Temp., Lab. for Nuclear Science (5/31) R78-108, Programmer, Temp., Res. Lab. of lectronics (5/31)

Electronics (5/31) R78-110, Spons. Res. Staff, Part-Time, Sea-Grant College Program (5/31) R78-113, Spons. Res. Staff, Sloan School of Management (7/12) R78-117, Spons. Res. Staff, Temp., Economics Dept. (7/12) Dept. (7/12) R78-119, Theoretical Plasma Physicist, National

Magnet Laboratory (7/12)
R78-120, Spons. Res. Staff, National Magnet R78-120, Spons. aboratory (7/12) aboratory (7/12) R78-122, Spons. Res. Staff, Electrical Systems (7/12)

is. Res. Staff, Electrical Systems R78-123, (7/12)Res. Staff, Electrical Systems R78-124. (7/12) R78-125, Res. Staff, Electrical Systems

aboratory (7/12) R78-131, Sport R78-133, Spons. Res. Staff, Sr. Microwave Systems Engineer, Natl. Magnet Lab. (7/26) R78-134, Spons. Res. Staff, Research Lab. of Electronics (7/26) R78-135, Spons. Res. Staff

R78-135, Spons. Res. Staff, Research Lab. of Electronics (7/26) p79-196 Spons. Res. Staff, Lab. for Computer R78-136, Science (8/16) R78-142, Spons. Res. Staff, Asst. to Director, loan School (8/16)

Sloan School (8/16)
R78-145, Spons. Res. Staff, Electronics Engineer, Lab for Nuclear Science (8/16)
R78-146, Spons. Res. Staff, Electrical Engineer, Bates Linear Accelerator (8/16)
R78-147, Spons. Res. Staff, Systems Programmer, Lab. for Nuclear Science (8/16)
R78-148, Spons. Res. Staff, Organic Chemist, National Magnet Laboratory (8/16)
R78-154, Spons. Res. Staff, Program Director, Neurosciences Research Program (8/30)
R78-157, Spons. Res. Staff, Organic Chemist, National Magnet Lab. (8/30)
R78-158, Spons. Res. Staff, Experimental Physicist/Electrical Engineer, National Magnet Lab. (8/30)

Lab. (8/30) R78-159, Spons. Res. Staff, Electronic Engineer, Ha

R78-169, Spons. Res. Staff, Electronic Engineer, laystack Observatory (8/30) R78-160, Spons. Res. Staff, Programmer, Center or Space Research (8/30) R78-162, Spons. Res. Staff, Systems Analyst, emporary, Energy Lab. (8/30) Temporary, Energy Lab. (8/30)
R78-163, Spons. Res. Staff, Systems Analyst,
Temporary, Energy Lab. (8/30)

Temporary, Energy Lab. (8/30)
R78-166, Spons. Res. Staff, Research Analyst,
Center for Policy Alternatives (8/30)
R78-168, Spons. Res. Staff, Programmer, Center for Space Research (8/30)
R78-170, Spons. Res. Staff, Programmer, Center for Space Research (8/30)
R78-171, Spons. Res. Staff, Center for Space Research (8/30)

The following positions have been FILLED since the last issue of Tech Talk. B78-421 B78-439

B78-418

B78-282

B78-444

B78-425

B78-437

A78-41

B78-359

H78-112

H78-130

B78-469

B78-76 B78-226 Sr. Sec. Sec. III Keypunch Operator III Sec. IV Sr. Lib. Asst. IV Sec. III Admin. Asst. Nurse Programmer Acctg. Asst. V Sec. IV Sec. IV
Lib. Asst. III (Part-time)
Section Head V
Custodian (Night Polisher) Waiter Asst. Computer Operator III Sec. IV Sec. IV Tech. As Sr. Clerk III Sec. III/IV Sec. IV Admin. Staff, Director Sec. III/IV Custodian Custodian Exempt Sec. IV Custodian Sr. Sec. V Custodian Mechanic 'A

The following positions are on HOLD pending final cience (5/4) R77-91, Sr. Accelerator Physicist, Lab. for B78-399

Tech. Associate Sec. V