August 28, 1985 Volume 30, Number 2

We're back

Effective with this issue Tech Talk resumes weekly publication. The next scheduled suspended issue will be October

With the resumption of regular publication we will also return to stricter ad regulations, namely that ads are restricted to one per person per issue and may not be repeated in successive issues.

Because of the Labor Day holiday, the deadline for listings in Institute Notices, the Institute Calendar and Classified Ads will be noon Thursday, August 29.

More parking

MIT will have about 100 more garage parking spaces available this fall according to O. Robert Simha, director of planning.

The spaces will be created by re-striping East, Albany and West Garages with smaller spaces for compact cars. The change is being made, Mr. Simha said, because more MIT people are driving smaller cars and recent changes in Cam-

bridge zoning regulations will permit adding spaces in the garages.

After re-striping, the right sides of the East and Albany Garages will be used for compact cars and the left sides for full-size cars. The Campus Police will distribute lists of car dimensions when they issue parking permits next month.

Mr. Simha said West Garage also will have additional spaces, but what their configuration will be has yet to be

Change noted

We've been asked to let you know about two administrative changes that took place July 1. The Office of Purchasing and Stores now reports to Vice President for Financial Operations James J. Culliton and the Property Office to Comptroller Philip J. Keohane.

Wellesley bus

Free bus and interdepartmental mail service between MIT and Wellesley College will resume Tuesday, Sept. 3, the first day of classes at Wellesley.

Mail addressed to an office or dormitory at Wellesley may be dropped into any MIT interdepartmental mail box for delivery at Wellesley approximately two working days later.

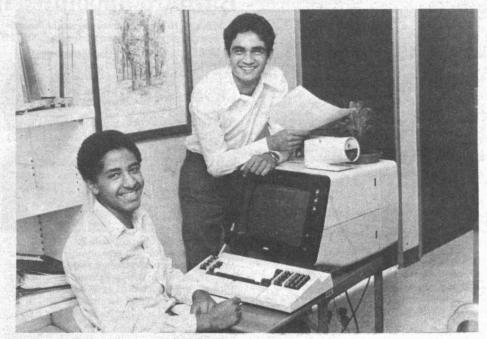
Information on bus stops and schedules is available from the Wellesley-MIT Exchange Office, Rm 7-108.

LIS applications

The Lowell Institute School will offer courses in analog and digital electronics, computer programming, microprocessors, PC board design, mechanical and architectural drafting, building maintenance, electromechanical technology, alarm technology, effective speaking and house-building for the fall term. Classes will meet weekly for 14 weeks starting September 16. Bulletins and applications are available from the LIS office, Rm E19-738, x3-4895. Application deadline is September 6.

The Lowell Institute School was established at MIT in 1903 to provide low-cost evening instruction in technical subjects for people in the greater Boston area. Last year some 70 members of the MIT community were among nearly 600 to receive certificates for completing courses





Mussie Zemui, left, and Harun Gadatia, right, take a break from their summer duties at

Teens win praise as employees

"MIT supervisors have given Cambridge TeenWork students high praise," noted Elizabeth Mulcahy, assistant to the manager of personnel services and employment. "These teens have become valuable members of the Institute's support staff," she added. Cambridge TeenWork is a unique employ-

ment service for qualified Cambridge Rindge and Latin High School students. Eight Teen-Work students have worked at MIT this

They are: Mark Brathwaite and Robert Elkins, Physical Plant; Eric Fong, Lab Supplies; Harun Gadatia, Personnel; Judy Moore, Applied Biological Sciences; Paul Pinheiro, Laboratory for Computer Science; Celia Viveiros, Harvard-MIT Program in Health Sciences and Technology and Mussie Zemui, Personnel

George Gillis, supervisor to Mark Brathwaile, said that the teen "is very good and very knowledgeable. All the guys in the depart-

And Darlene McGurl, supervisor to Harun Gadatia, is so pleased with his work she wants him to stay all year, not only this summer.

MIT is one of hundreds of employers in (continued on page 4)

Food programs go begging for report finds want of funds,

Inadequate funding of distribution costs is hindering the federal government's Temporary Emergency Food Assistance Program and already has eliminated the program completely in three states, according to an MIT expert on hunger and food policy.

Professor Michael Lipsky, reporting on an 18-month study of the program, said that more than 30 states have reported funding shortfalls for the final quarter of fiscal 1985. Three states-New Jersey, New Hampshire and Vermont-have dropped out of the program entirely because of the lack of administrative funds and a number of states have cut their normal food orders by more than 20 per cent, he said.

Dr. Lipsky said an increase of at least 30 per

cent in administrative funding will be required 'to ensure the consistency of the program's

operations through the fiscal year."
Professor Lipsky has described the program, through which three billion pounds of cheese, butter and other surplus foods have been given away over the past three years to needy Americans, as "the single positive initiative of the Reagan administration to the hunger crisis." In three appearances before Congressional committees in the past year, he has advocated an increase in federal reimbursements to state and local feeding organizations for their administrative expenses in connection with the program.

His report, "Food in the Warehouses,

(continued on page 8)

Freshmen show 'enterprise, energy, style'

By SHARON DAVIS Staff Writer

The average MIT freshman must be reasonably intelligent, willing to work hard, and fun to be with.

These are the qualities Admissions looked for when selecting the class of 1989, noted Dan Langdale, associate director of Admissions. "This year's freshmen have personal enterprise, energy and style."

Here are examples

-The captain of the Malaysian junior tennis

-A two-time state gymnast champion from

-The first woman to run for and win a district governorship in a Californian Key

-A member of the Mexican junior equestrian team who has won more than 100 awards in the last six years.

-An all-Eastern, all-state chorale member who won a letter in field hockey and also edited (continued on page 4)

Catalogue is out

The 1985-86 edition of the Courses and Degree Programs is being distributed starting this week to faculty and staff

members through Institute mail.
The catalogue is also available now through registration day to upperclass, graduate, and Wellesley students in Rm 5-134. Each student is entitled to one catalogue and will be asked to show his or her ID when requesting a book. After registration day, the Information Center will handle catalogue distribution to the students, using the same procedure.

Freshmen will receive their catalogue

in the R/O Center.

Employees who have a work-related need for the catalogue may pick one up in the Information Center by showing their

Prospective freshmen who would enter MIT in 1986 will receive catalogues when they file their premliminary applications.

Again this year, the catalogue will be available for \$4 per copy to people outside the MIT community, visitors to the Institute, company representatives and prospective undergraduate students applying for the 1987 academic year. The books will be available at the Tech Coop and the MIT Press Bookstore.

"Welcome to MIT," a free publication of general information for visitors is available in both the Admissions Office and the Information Center.

Three department heads are appointed

Covert in Aero Dr. Eugene E. Covert, an aerospace engineer noted for his research in aerodynamics, for

contributions to engineering education and for service to government and industry, will become head of the Department of Aeronautics and Astronautics September 1. Dr. Covert's appointment was announced by Dr. Gerald L. Wilson, dean of the School of Engineering and Vannevar Bush Professor.

Professor Covert will

succeed Professor Jack L. Kerrebrock who will become associate dean of engineering September 1, having served as head of the department from 1978-81 and since 1983, when he returned from a period as associate administrator for aeronautics and space technology at NASA.

Professor Covert will be the seventh head of one of the oldest and most successful aerospace (continued on page 8)

Fox in Biology



Professor Gene M. Brown, dean of the School of Science, has announced the appointments of Professor

Maurice S. Fox as head of the department of biology and Professor Richard O, Hynes as associate head.

"I am very pleased that Professors Fox and Hynes have agreed to accept top leadership roles in the Biology Department. Before and during my tenure as department head, I have known both of them as close personal friends

and as colleagues whose judgment and counsel I have always valued highly," Dean Brown

'Their knowledge of the Department, the respect of their colleagues, and their sustained interest in and contributions to the research and educational programs of the Department have marked them as superb candidates for

(continued on page 8)

Marks in Civil

Professor David H. Marks, an engineer noted for his work on water resource systems,



water quality management, infrastructure rehabilitation, and systems analysis, has been named head of the Department of Civil Engineering.

The appointment was announced by Dr. Gerald L. Wilson, dean of the School of Engineering and Vannevar Bush Professor, who said that Professor Marks had his "strong

support in continuing our search for leading research and teaching directions for the department."

Dean Wilson said that Professor Marks "comes to this position with a breadth of experience as a faculty member and as a practicing civil engineer. In his capacity as chairman of the committee that reviewed the future directions of the department he had an

(continued on page 8)

INSTITUTE **NOTICES**

Open to public
Open to MIT Community only
Open to members only

Announcements

Graduate Orientation '85 - As a service to the MIT communi-ty, the Graduate Student Council coordinates the Sept 3-6 Orientation Week activities for new graduate students. Anyone interested in meeting new students by assisting with the Infor-mation Booth, Picnic, Harbor Dance Cruise or Muddy Charles Pub Open House should contact Anne St.Onge, x3-2195, 1:30-5pm. Contributions of even a few hours helpful.

R/O Blood Drive* - TCA/American Red Cross drive, Thurs. Sept 5, 1-7pm & Fri, Sept 6, 12-6pm, Student Ctr Sala de Puerto Rico (2nd flr). No appointment necessary. Call x3-7911 for info.

Additional Course Listings – taught by Prof Irving Singer: 24.02, The Meaning of Life; 24.203, Aspects of 20th-Century Philosophy. Both are currently listed in the Catalogue (but, as ot offered'til 1986-87)

Talbot House – Renovations are complete! The Talbot House office is now accepting applications for October weekends. For applications and information, contact Sharon Shea, Rm 7-103, x3-4158. Deadline for October weekend applications is August

Simulator Flights** - Flight Transport Lab, Take a ride in our cockpit simulator. Sign-up in Rm 33-412.

MIT Sea Grant Call for New Proposals – for the program's funding cycle which begins July 1, 1986. All new project proposals must be submitted in a preliminary (short) form by September 24, 1985. From these submissions, the best projects will be selected – within the project Program budget – and those proposers will be asked to prepare a complete write-up by December 2, 1985 for consideration by the MIT Sea Grant Faculty Committee and NOAA's Office of Sea Grant. For more information, contact Lawrence McKinnon or Norman Doelling, MIT Sea Grant College Program, E38-302, x3-7041.

September Degree Candidates – Post cards must be returned to Rm E19-335 to indicate whether diplomas are to be mailed, called for in person, or if attendance at Commencement, June 2, 1986 is planned.

Serials in the MIT Libraries - 25th edition now available, containing over 1,000 new titles, published in two sections: 1) an alphabetical list (8 fiche), and 2) a keyword index (8 fiche). This microfiche listing of approximately 20,000 titles includes information on holdings, dates, call numbers, and title changes. Prepayment required. Price: \$20; \$5/MIT staff & students. To order, send check, payable to MIT to: Office of the Director, Rm 148-216.

unopened foods for Boston's less fortunate. Ongoing collection all day and night at drop-off boxes in Lobby 7, Walker, McGregor desk

Arts Hotline - Recorded information on all arts events at MIT may be obtained by dialing x3-ARTS. Material is updated every Monday morning.

Nightline** - a student-run hotline open every evening of the term, 7pm.7am. If you need information about anything or you just want to chat, give us a call. We're here to listen.

Faculty Members – Technology Review would like to hear about books being published by MIT faculty members. Please notify us, as far in advance as possible, of your upcoming book. Technology Review, 10-140, x3-8250.

Club Notes

WMBR** - is looking for students interested in radio and technical work. Contact Eli Polonsky, x3-4000. Leave name and

MIT Student Cable Programming Group** - Looking for students interested in programming the MIT Cable Television channels. Contact Randy Winchester, x3-7431.

MIT Student Duplicate Bridge Club* - Bridge games every Sat, 7pm; every Thur, Sun & Mon, 6:30pm, \$.75 entry fee, Rm 407, Student Center. Lessons free w/entry at 6:15pm from Bridge Senior Masters. No partners necessary, all welcome

MIT/DL Bridge Club* - Duplicate bridge, Tues, 6pm, Student Center Rm 349. ACBL masterpoints awarded; come with or without partner, newcomers always welcome. Special tournaments monthly. Info call Gary Schwartz, x8-2459 Draper, or Mark Dulcey, 576-3745. Admission: \$.75/students, \$1.50/non-students.

MIT Nautical Association** – Summer Pavillion summer schedule: 9am-sunset every day through Sept 10. Shore School: Beginners Class in Tech Dinghies (introduction, rigging, actual sailing), Weds, 5:15pm or Intensive Shore School, Sats, 10am (all 3 classes in 1 stretch); Beginners class in windsurfing, Tues, 5:30pm & Suns, 10am. Novice racing, Mons, 5:30pm. Sailing trips to Boston Harbor & special regattas will also be arranged. Call x3-4884 for details.

MIT Rugby Football Club** - Men: practice T/Th, 5-7pm, Field 8. Contact Mike Murphy, x3-8118 or Rich Selesnick, x3-2401. Women: practice M/Th, 5-7pm, Field 8. Contact Caroline Richardson, x3-3191. No experience necessary.

MIT Aikido Club** - meets Mon-Fri, 5:30pm, DuPont exercise room. Aikido is a non-competitive Japanese martial discipline. Beginners welcome.

MIT Outing Club* - Camping, cycling, climbing, canoeing, cabins: meets M/Th, 5-6pm, Student Center Rm 461. Also, see our bulletin board in "Infinite Corridor" next to Athena.

MIT Wu-Tang Club* - teaches northern Chinese kung fu, Tues & Thurs, 8pm, Burton Dining Hall; Sat, 10am, Athletic Center. Beginners welcome. For info call Roger Walco,

MIT Tae Kwon Do Club** - Tae Kwon Do is a Korean martial art. Meetings Sundays, 4pm, T-Club Lounge; Mon-Wed, 6pm, Burton Dining Hall; Fri, 6pm, T-Club Lounge. For info call In Ho Kim, 266-2827.

Scuba Club** - The club sponsors dives throughout the term. Call scuba locker (x3-1551) for info and equipment rentals. For more info contact Dave Summa, x3-6464 or Mike Fox 492-4407.

MIT Guild of Bell Ringers* - meets Mondays, 6:30-9pm, 2nd floor Lobby 7, for change ringing on handbells. We also ring the tower bells at Old North Church. Beginners are welcome. Contact Eric Brosius, Rm 2-270, x3-3773 for more information.

Religious Activities

The Chapel is open for private meditation 7am-11pm daily.

Christian Science Organization at MIT* - Weekly ony Meeting, Thurs, 5:45pm, Rm 4-145.

Tech Catholic Community* - Roman Catholic Masses: Sun, Sept 1: 9am & 12non; Sundays beginning Sept 8: 9am, 12non, 5pm; Weekdays beginning Sept 10: T/Th: 5:05pm & Fri 12:05pm. All Masses in MIT Chapel. Welcome Brunch: Sun, Sept 1, 10am, Chapel Lawn. Morning Prayer: M-F, 8:15am, Chapel Basement. Charismatic Prayer Group, Mon, 6:45pm, Rm 1-114. Bible Study: Tues, 8pm, Chaplaincy Office. Chaplaincy

Lutheran Ministry and Episcopal Ministry** - Weekly service of Holy Communion: Wed, 5:10pm, MIT Chapel. Supper following at 312 Memorial Drive. For further info, call

Charismatic Prayer Group* — Mon eves, 6:45, Miller Rm 1-114. Pot-luck supper followed by prayer meeting, Bible sharing, music & praise. Viola Sanchez, x3-7141 or 577-1722 or Frank Camacho, x3-8642 or 494-1932.

Islamic Society* - Daily prayers, Ashdown House (basement), 5 times a day. Call 5-9749 dorm, for schedule. Friday prayer, Ashdown House 1-1:45pm, Khutba starts at 1pm, congregation

MIT Seekers Christian Fellowship* — Park Street Church Seekers Teaching and Worship Time, Sundays, 9:15am, enjoy our biblical teaching, worship and sharing at Park Street Church, right in front of the Park Street T stop. MIT Seekers leave from McCormick at 8:30am. Come join us

Campus Crusade for Christ** - Family time, 7:15pm, Fri, eves, Rm 37-252. Fellowship, scripture teaching, prayer, singing, refreshments & fun. Tues, prayer time, 7:30-9am, W20-441, Student Center. Call x5-9153 dorm.

Lincoln Laboratory Noon Bible Studies* - Tues & Thurs, Kiln Brook III, Rm 239. Annie Lescard, x2899 Linc

Morning Bible Studies - Fri, 7:30-8:30am, L-217. Ed Bayliss,

Noon Bible Study* – Every Wed, Rm E17-109, bring lunch. Ralph Burgess, x3-8121. (Since 1965).

Edgar Cayce Study Group* - Tuesdays, 6:30-9pm, Edgar Cayce's Search for God material will be used as the basis for group discussion & meditation. For info: Douglas McCarroll, 876-7134 12-9pm or Scott Greenwald, x3-7423.

Graduate Studies

Unless otherwise indicated, contact Dean Jeanne Richard at the Graduate School Office, Rm 3-136, x3-4869 for further information.

1986-87 Fulbright Awards. Students may now apply for Fulbright grants for graduate study or research abroad in academic fields and for professional training in the creative and performing arts. The purpose of these grants is to increase mutual understanding between the people of the US and other countries through the exchange of persons, knowledge, and skills. Applicants must be US citizens at the time of application, who will generally hold a bachelor's degree or its equivalent before the beginning date of the grant and, in most cases, will be proficient in the language of the host country. Except for certain specific awards, candidates may not hold a PhD at the time of application. Candidates for 1986/87 are ineligible for a grant to a country if they have been doing graduate work or conducting research in that country for six months or more during the academic ways 1985/98 For more information and application forms, contact Dean Eugene R. Chamberlain, Rm 5-106, x3-3795. Application deadline: Sept 27, 1985.

Fulbright Scholar Awards 1986-87. The Council for International Exchange of Scholars (CIES) has announced the opening of competition for the 1986-87 Fulbright scholar awards in research and university lecturing abroad. The basic eligibility requirements for a Fulbright award are US citizenship, PhD or requirements for a Fulloright award are US citzenship, Find or comparable professional qualifications, university or college teaching experience, and for selected countries, proficiency in a foreign lannguage. Application deadlines: Sept 15, 1985 for Africa, Europe, and other countries in Asia; Nov 1, 1985 for junior lectureships to France, Germany, Italy, and Spain; Dec 1, 1985 for administrators seminars in Germany, Japan, and the United Kingdom; Dec 31, 1985 for NATO Research Fellowships; and Feb 1, 1986 for the seminar in German civilization, Spain Research Fellowships, and France and Gernany travel-only awards. For more information, contact Dean Eugene R. Chamberlain, Rm 5-106, x3-3795

Marshall Scholarships, awarded annually to approximately 30 US citizens under the age of 26 for two years of graduate study in any field, at a British university. Applications study in any field, at a British university. Applications available through Dean Chamberlain, Rm 5-106, x3-3795. Interviews are held by appointment with Prof Alar Toomre, Rm 2-371, x3-4326. Submit applications directly to the British Consultate General, 4740 Prudential Tower, Boston, MA 02199. Application deadline: October 22, 1985.

American-Scandinavian Foundation Grants and Fellowships for study in Scandinavia for 1985-86. Awards open to US citizens and permanent residents who will have com-pleted their undergraduate education at the time this overseas program begins. Demonstrated language skills required. Inquiries should be made directly to the American Scandinavian Foundation, 127 E 73rd St., New York, NY 10021, 212-879-9779. Also see Dean Chamberlain, Rm 5-106, x3-3795. Deadline: November 1, 1985.

Churchill Scholarships. The Churchill Foundation of the US wards 10 scholarships annually to US citizens between the ages of 19 and 26 to pursue one or three years of graduate study in science, engineering, or mathematics at Churchill College, Cambridge University. Applications available in Rm 5-106, x3-4861. Application deadline: November 12, 1985.

Robert S. McNamara Fellowships. The World Bank annually offers 12-month fellowships for full time graduate work in fields related to economic development and institution building. Applications are considered from individuals as well as from small groups of up to five persons at the same institution for work on a joint project. Candidates for these grants must be citizens of a World Bank member country, 35 years of age or under, holders of a master's degree or equivalent, and willing to carry out their study in a country other than their own. For more information, contact Dean Eugene Chamberlain, Rm 5-106. Application deadline: December 1, 1985.

Fulbright Collaborative Research Grants, 1986-87. Designed for teams of 2-3 graduate students or recent postgraduate researchers to perform joint research abroad. Applicants must be US citizens, hold a BA or equivalent before the beginning date of the grant. Those with a PhD at the time of ap-plication may have obtained the degree no earlier than June 1983. Applicants are expected to have written and spoken pro-ficiency in the language of the host country. Application deadline: December 20, 1985. For more information, contact Dean Eugene R. Chamberlain, Rm 5-106, x3-3795.

Armenian General Benevolent Union (AGBU) Hirair & Anna Hovnanian Fellowships – two fellowships, each in the amount of \$3,000 given annually to assist Armenian-American students specializing in government, international affairs, or international law. Applicants must be graduate students with high academic standing. Written requests for application forms ust be submitted to the Armenian General Benevolent Union, 5 Saddle River Rd, Saddle Brook, NJ 07662 (tel: 201-797-7600) by February 15. Decisions will be communicated to the applicants during July.

International Open House set

comers expected.

The 13th annual International Open House will be held Tuesday and Wednesday, September 3-4, from 9:30am-5pm in the Bush Room (10-105) to introduce new internationals and their families to members of the MIT community.

This informal gathering has been organized so that newcomers can chat with others who

Volunteers are needed to greet international newcomers during the International Open House. A welcome from those familiar with the community is especially appreciated by those just entering it. To sign up or get further information, call x3-1614.

know MIT and learn about resources at MIT and in the Boston area that can help them make the most of their stay here. Faculty, staff, students and employees are asked to stop

Women's League. The annual "Evening with MIT Faculty," chaired by Dr. Louis Menand III, will be held on Tuesday evening, September 3, 7:30-9pm, featuring Professors Alvin W. Drake (electrical engineering and computer science), Richard K. Lester (nuclear engineering), Samuel J.

in and talk with the large number of new-

and helping services will be on hand to distri-

bute information about their programs and

activities, including information for wives

about English classes, the Wives' Group, Technology Community Women, and the MIT

Representatives of campus organizations

Wuensch (Materials Science and Engineering). The Open House is sponsored by the Medical Department and the International Students' Office. For more information, call x3-2916.

Keyser (associate provost and linguistics and

philosophy), Irene Taylor (literature) and B.J.

Barnard appointed in Real Estate Office

Mark A. Barnard, former assistant director of community development for the city of

Somerville, has been named assistant director of real estate, Philip A. Trussell, director of real estate and associate treasurer, has announced. The real estate office is part of the MIT treasurer's office.

As assistant director, Mr. Barnard will be involved in management of MIT owned investment properties including the development of the former

Simplex property in Cambridge. Previously, he was responsible for Somerville's economic development and commercial revitalization in Davis Square. He was also the city's project manager for design and construction of public facilities.

Before his employment there, he was project planner for Nash-Vigier, Inc., an urban planning and design consultant group in Cambridge, and project manager for Towne Properties, Inc., a land development corporation in Cincinnati. He was also associated with May and Noe and also Vogt, Sage and Pflum, design firms in Cincinnati.

Mr. Barnard received a bachelor's degree in urban planning and design from the University of Cincinnati's School of Design, Architecture and Art and a master's degree in landscape architecture from Harvard University's Graduate School of Design.

An honors scholar at the University of Cincinnati, he was awarded the Webel Memorial Prize for Design at Harvard University. He was also a visiting critic at Harvard University Graduate School of Design in Urban Design and Landscape Architecture.

Engineer to study at MIT

John F. Weiland, an engineer at the Westinghouse Electric Defense Center in Baltimore, was awarded a B.G. Lamme scholarship to study at MIT for one year. He holds a BS degree in engineering and BA degree in math from Swarthmore College in Philadelphia. Sponsored by Westinghouse Electric Corporation, the scholarship is given annually to five Westinghouse employees to study at US educational institutions.

International Opportunities

The following is a list of opportunities available to foreign nationals. For more information on these, please see the Interna tional Jobs notebook in the Office of Career Services, Rm 12-170.

Baker Drilling Equipment Co., a Fortune 500 oilfield service company seeks a technical marketing representative with a technical background who is fluent in Mandarin Chinese and English. This person will rotate between China and the US.

Jonnson & Jonnson nas three positions available for foreign na-tionals to work in Greece and Brazil. The position in Athens, Greece is for an assistant manager quality control with a BS in chemistry; candidates must be Greek citizens. Two positions available in Brazil are for researcher/scientist/sr. scientist with a BS in chemistry with advanced degree desirable and Brazilian

Internships

The following is a list of selected internships. For more information on these and others, please see the Internship Information notebook in the Office of Career Services, Rm 12-170.

Au Bon Pain Co., Inc., Boston. Two paid internships available: shift supervisor and marketing/consumer research associate. Time commitment: 10-20 hrs/wk.

The Center for Space Policy, Inc, Cambridge. Two paid internships available for graduate level students and also volunteer internships. Students with backgrounds in engineering, computer science or business preferred. Time commitment: 10-15

Greenpeace New England, Cambridge. Various intership openings available, full or part time for at least one ser

Senate Legislature Education Office, Boston. Mass Senate Academic Internship Program, 15 hrs/wk, no stipend available.

Commonwealth of Massachusetts, Boston. There are a variety of departments advertising for interns: Metropolitan District Commission, Executive Office of Human Services, Governor's Office on Women's Issues, and Executive Office of Transporta tion and Construction.

Metropolitan Area Planning Council, Boston. Internships for undergrads and graduate students to work on various projects with a modest stipend available for some positions.

biological psychiatry, ideal for graduate students and undergrad pre-med students. No stipend available but interns are provided with supervision, case conferences, and seminars.

UROP

For more detailed information on UROP opportunities listed, MIT and Wellesley undergraduates should call or visit the Undergraduate Research Opportunities Office, Rm 20B-141, x3-5049 unless otherwise specified in the listing. Undergraduates are also urged to check the UROP bulletin boards in the main corridor of the Institute.

MIT undergraduates are hereby invited to join with faculty members in pursuit of research projects of mutual fascination. The 1985-86 Directory will be available in early September and at the Academic Midway on Sept 4. Fall guidelines outlining proposal procedures are also available at the UROP office and are posted on the UROP bulletin boards. Questions? Contact us: Rm 20B-141, x3-5049. First call for proposals: Proposals for fall UROP support

may be turned in at any time after September 9. Submit them first for review and approval to your faculty supervisor and the UROP coordinator in your faculty supervisor's department before turning them in to the UROP office. For details on procedures (proposal writing and submission) read the "Participation" section of the UROP Directory. Joel M. Orloff Undergraduate Research Prize. Noming-

tions from faculty are invited. An award of \$1,000 will be presented in early October to the undergraduate who has demonstratred the most outstanding ability and creativity in physics-related research during the past summer and/or academic year. Nominations should be sent to the UROP office

Sea Grant UROP Awards. Grants of \$750 each will be given for undergraduate research in any area related to the study and management of the ocean and ocean resources. Proposals may come from departments throughout MIT (Wellesley students may also apply). A letter of recommendation should accompany the proposals and be sent to the UROP Office by October 7.

Evolution of the French Feminist Movement. Study of the evolution of the French feminist movement since May '68, analysis of its present relationship to the Socialist government. Work involves transcription of interviews (in French) with several feminist activists and thinkers. Knowledge of French language (especially oral and written, for purposes of transcription is necessary. Project can begin immediately, or any time between now and beginning of September. Contact: Prof Isabelle de Courtivron, Rm 14N-230, x3-4776/4771 or 262-2510.

Food and Famine in China. Computer statistical analysis of data on Chinese grain supply, food prices, and famine relief in the 18th and 19th centuries. Outside reading will be involved. Prefer student with knowledge of Chinese or a Prof Peter C. Perdue, x3-3064, Rm 14N-312.

Geometry of Compensatory Eye Movements. Project involves studying how well movements of the eyes compensate for movements of the head in adult humans, so that a stable image of the world is maintained. Such eye movements are driven by apparatus in the inner ear, apparatus resembling a threedimensional angular accelerometer used in guidance system. Credit or PAY. Experiments conducted in Dept of Psychology at MIT and at Northeastern. Experience with analog electrical circuitry and C and FORTRAN programming languages particularly helpful. Freshmen can apply. Faculty supervisor; Prof Richard Held. Contact Trevor Hine, Rm E10-106, x3-8948.

pment of Computer Enhanced Curriculum for Fluid Mechanics. Students wanted for Athena project programming models developed by the faculty for teaching various topics in aerodynamics and fluid mechanics. Fall: 10-12 hrs/wk. Continuing full-time IAP and Summer '86. PAY or credit available. Prerequisites: knowledge of FORTRAN and B grade in 1.00 or 2.10 and interest in the above as taught in 16.02 (Unified Engineering). UNIX knowledge desirable but not essential. Contact: Prof Earll Murman, Rm 33-217, x3-3284.

Development of Guided Computing in Econometrics and Statistics. Members of the Center for Computational Research in Economics and Management Science are working on the development of guided computing in econometrics and statistics using some ideas from the AI subdiscipline of Expert Systems. Experience in programming is essential. Knowledge of LISP and statistics would be helpful. Contact: Prof Edwin Kuh,

Rehabilitation Engineering - Movement Disorder Mechanism. Student will analyze tremor data already gathered from tracking experiments with tremor-disabled patients. Results of the data reduction are to be used in establishing the validity of tremor models. Knowledge of FOR-TRAN, statistics, linear systems and control theory would be useful. Available for credit or PAY. Supervisor: Dr. Michael J. Rosen. Contact Bernard Adelstein, x3-5334.

UROP in Neuropsychology. The Neuropsychology Research Group seeks one or more undergraduates to join in ongoing research projects concerning the brain basis of human behavior amnesia and disorders of memory, intellectual and emotional differences between the right and left cerebral hemispheres, and Alzheimer's disease. Students will aid in the design, e and analysis of an experiment. Credit preferred, PAY Appropriate for freshmen. Faculty supervisor: Dr. Suzanne Corkin. Contact John Gabrieli, Rm E10-106, x3-8948/5793

TECH TALK



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Mail subscriptions are \$18 per year by first class mail. Checks should be made payable to MIT and mailed to Business Manager, Room 5-113, MIT, Cambridge, MA 02139.

Page 2, Tech Talk, August 28, 1985 employed intrinsiculation of the characters and their sections

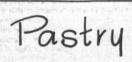
-Here & There-

(This new column of notes about MIT people, events and media mentions will appear regularly, but not necessarily in every issue. The first column appeared in the July 24

In the 11 years that Rabbi Daniel Shevitz has been a religious counselor at MIT he has had five secretaries. When he went looking for another recently, he must have wondered whether he would find someone who wants to become a rabbi or a director of a Hillel program. Two of his former secretaries now head Hillel programs. A third, Leslie Gordon, his immediate past secretary, left to enroll in the Jewish Theological Seminary of America in New York City. Already in her third year there (it's a five-to-seven-year program) is Carolyn Braun, another of Rabbi Shevitz' former secretaries. Ms. Gordon is a Conservative Jew; that branch of Judaism opened the rabbinate to women within the last year.

Another honor for Jerome B. Wiesner, former president and Institute Professor: The National Academy of Engineering has selected Dr. Wiesner to receive its prestigious Arthur M. Bueche Award for his "long-term contributions to public understanding of the risks of the nuclear age and to efforts to reduce those risks...and for personal leadership at the highest levels in the areas of high-performance communications systems, science policy in the federal government and scientific and engineering education."

And high praise for two MIT artists: The Daily Hampshire Gazette of Northampton referred to Richard (Ricky) Leacock, professor of cinema, as "one of the Living Treasures of New England." And the Boston Globe's Richard Dyer, reviewing the pre-miere of a concerto composed by Anthony Newman for Marcus A. Thompson, professor of music, said Dr. Thompson, a violist, gave the commanding and convincing kind of performance a composer must dream of: this was wonderful, committed playing." About Dr. Thompson's performance of Paganini's Sonata per la Gran Viola, Dyer said, "The music and the performance were such dazzling fun that the audience repeatedly laughed from sheer astonishment and delight. This listener wouldn't have thought the viola capable of this, or a violist."







From the Campus Police log, The Case of the Brazen Squirrel (And How It Eluded the Money Fired at Him/Her by an Intrepid Patrolman): The investigative report, filed by Sgt. Joseph Molineaux on July 28, notes that the offense, a B&E (breaking and entering), involved a gray squirrel (name, age and sex unknown) who was spotted eating pastry and cookies in a vending machine in the basement of Building 10. Patrolman Donald Gautreau, dispatched to the scene, came up with what certainly appeared to be a logical solution for apprehending the suspect. "Attempts made to remove this squirrel by putting money into this machine," the report said, "so as to activate the flap containing this squirrel to drop down into the base receptacle. Two or three tries—negative results. Even tried a few peanuts—negative results."The vending machine company was then notified, but by the time its squirrel squad arrived the intruder was gone. The report does not state whether Gautrea was reimbursed for the money he put in the machine. Nor does it say whether he tried kicking the machine to get the squirrel to drop.

President Ronald Reagan has nominated S. Bruce Smart of Fairfield, Conn. (SM in civil engineering, 1947) for undersecretary of commerce for international trade. Smart formerly was chairman and chief executive officer of the Continental Group, Inc., of Hartford.

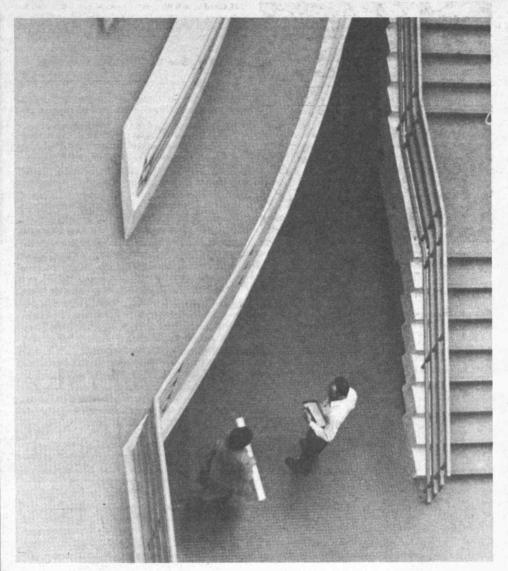
MIT ranked seventh among colleges and universities nationally in the amount of voluntary support received in the academic year 1983-84, according to a survey conducted by the Council for Financial Aid to Education, Inc. MIT's figure-\$62,994,928-put it ahead of Princeton, the University of Southern California and the University of Chicago in the Top Ten group. Harvard, with \$125,201,403, was first; others ahead of MIT, in order, were Stanford, Yale, Columbia, Cornell and the University of California at Los Angeles, the only nonprivate university among the leaders.

MIT dropped out of first place in another ranking, but some considered it a dubious honor anyway. In the latest compilation by the College Board of the most expensive colleges and universities in the US, Bennington College in Vermont slipped past MIT with an estimated total cost for the year of \$17,210. MIT, which had been rated the most costly the previous three years, was in second place at \$17,030. Total college costs are defined as including tuition and fees, books and supplies, room and board, personal expenses and transportation. Overall, the College Board said, the average cost of a year at college will rise 7 per cent in the 1985-86 school year.

PRESS CLIPPINGS-An MIT sailboard enthusiast, Kjirste Carlson, a graduate student in mechanical engineering fromwhere else?—California, has become a favorite of Boston newspaper photographers. A feature photo of the windsurfer at play on the Charles River appeared in the Boston Herald last spring, and a second photothis time in the Globe-appeared in July in connection with a story questioning whether the water in the Charles River Basin is clean enough for the sailboard set, all of whom end up in the water from time to time. . . Another MIT athlete pictured in action in the Globe was Frank Revi, a senior in architecture and captain of MIT's Ultimate Frisbee team. The story with the picture said the sport is catching on in the nation's colleges... MIT physicist Bernard T. Feld had some unsettling comments in a Globe article questioning whether a terrorist group could build a nuclear bomb. The threat, said Professor Feld, "is indeed uncomfortably great and, what is more alarming, growing. A columnist in the New Haven (Conn.) Register offered a warm tribute to Dr. Irwin W. Sizer of MIT and his wife, Helen, on the occasion of their 50th wedding anniversary, celebrated at a party held in McCormick Hall, Dr. Sizer, former dean of the graduate school, is president of the Whitaker Health Sciences Fund. The columnist was his brother, Alvin, a retired associate editor of Dr. Herbert H. Richardson, the Register. who left MIT to become dean and vice chancellor for engineering at Texas A&M University, is still an MIT booster. He told Texans in an essay in the Dallas Morning News that education is critical to that state's future economic success, noting, "Of 216 companies in the Rte. 128 complex, 156 grew out of MIT laboratories." Richardson was professor of mechanical engineering and associate dean of the School of Engineering at MIT. . . The Christian Science Monitor reported on an unpublished study by Robert A. Ariel, a Sloan School doctoral candidate, indicating that the stock market often does exceptionally well on the last trading day before a national holiday. It also quoted Dr. Terry A. Marsh, assistant professor of finance at Sloan, as saying, "If we could rerun world history 20 times, we might find out if this is just a statistical aberration." Dr. Pauline Maier, professor of history at MIT, provided readers of The New York Times Book Review with an essay on what America was like in the century before independence. Was it the golden age that many have depicted, a stable and prosperous place where nothing much happened? Apparently not. Recent studies, she said, show

'a more divided and troubled place than

tradition and most textbooks suggest.



An unusual view of part of the atrium of the Albert and Vera List Visual Arts Center in the Arts and Media Technology Building (E15), still under construction. This shows part of the banquette area and stairway designed, along with the atrium's balconies, by artist Scott banquette area and stairway designed, along with L.M. Pei '40, architect of the building.

—Photo by Calvin Campbell

Art Lottery to greet students

The annual Student Loan Art Exhibition and Lottery will open in new Hayden Gallery in the Albert and Vera List Visual Art Center on Friday, Aug. 30, just in time to welcome the freshmen to MIT.

The exhibit will run through Thursday, Sept. 12, 10am-4pm weekdays and 1-5pm weekends. After visiting the exhibit, students may fill out cards listing their first, second and third choices for a print. The drawing will be made by the Committee on the Visual Arts Friday, Sept. 13, with the list of winners posted at 6pm on the gallery doors.

More than 260 framed, signed prints and posters will be available this year for individuals and student groups to hang in their rooms or activity centers. The yearlong loans are limited to one per student or group. Prints may be picked up September 14-16.

The art works are from the Catherine N. Stratton Collection of Graphic Art and the List Student Loan program. They range from abstract geometry and expressionism to more representational works from established and new artists. Lithographs, etchings and silkscreens will be included.

Several new works are available, including large screenprints by Mel Bochner, Nancy Graves and Neil Welliver, an engraving by Roy Drasites and an etching by Robert Conover. Last year, more than 1,100 students and 40 organizations registered for loans from the program.

Support for the Student Loan Program comes from MIT friends and alumni, including the Communities Foundation of Texas, headed by Alan S. May '57, of Dallas, and the James Taylor Family Foundation, headed by John Taylor 72, of Mequon, Wisconsin.

The Catherine N. Stratton Collection of Graphic Art was established in 1966 by the Arts Committee (now the Council for the Arts at MIT) in tribute to Mrs. Julius A. Stratton, wife of MIT's 11th president. Mrs. Stratton's support of visual arts at the Institute spans more than two decades.

The List Student Loan Program was established in 1977 with a gift of more than 100 framed prints and posters from the Albert and Vera List Collection, which continues to augment the collection with numerous graphic works. Mr. and Mrs. List, for whom the List Visual Arts Center is named, are patrons and collectors of contemporary art who have made major contributions to the arts at the Lincoln Center, the New Museum of Contemporary Art in New York City and Brown University.

Wang named to Chevron Chair

Professor Daniel I. C. Wang, known internationally for his contributions to biochemical

engineering, has been appointed to the Chevron Professorship, Professor James Wei, head of the Department of Chemical Engineering has announced.

Dr. Wang, also director of the Biotechnology Process Engineering Center, will hold the professorship for five vears.

He received the Outstanding Teaching Award from the MIT

Graduate Student Council in 1972 and 1975, the Food, Pharmaceutical and Bioengineering Award from the American Institute of Chemical Engineers in 1981, and the Marvin J. Johnson Award from the American Chemical Society in 1983.

Editor-in-chief of the International Journal of Biotechnology and Bioengineering, Dr. Wang has coauthored three books and more than one hundred papers in professional journals. He also holds five patents. He was elected to the American Academy of Arts and Sciences in 1985. He also serves on numerous government and professional society committees

Dr. Wang received the SB degree in chemical engineering at MIT in 1959 where his thesis supervisor, Professor Robert C. Reid, was the first Chevron Professor. In 1963, he was awarded a PhD from the University of Pennsylvania.

He joined the MIT faculty in 1965 as an assistant professor of biochemical engineering, became associate professor in 1970 and

professor in 1974.

Dr. Wang and his wife, Victoria Dawn, an assistant vice president at the Bank of New England, have one son, Keith, who is 14 years

Deutch to head panel

MIT Provost John M. Deutch named to head a nine-member panel that will review the Midgetman nuclear missile program, the Defense Department has announced. The study has been requested by Congress in the 1985 defense authorization act.

Dr. Deutch was on the commission that originally recommended in 1983 to build the small, mobile missile. Last month the General Accounting Office, an investigative arm of Congress, said the Midgetman might be too small to strike some targets in the Soviet Union and that there were other technical problems.

Dr. Deutch is a former Under Secretary of the US Department of Energy. He participated in the original decision on the Midgetman as a member of the President's Commission on

Strategic Forces.

Other members of the study panel include Charles H. Townes, former MIT provost and a professor at the University of California at Berkeley, attorney R. James Woolsey, and retired Air Force generals Bernard A. Schriever, Russell E. Dougherty and Jasper Welch. The study will be sent to Congress with the President's budget submission in January

Freshmen show 'energy, style'

(continued from page 1)

her high school year book.

Others include a member of the McDonald Corporation all-American band, a football player who is an avid folk dancing fan and a seeing eye dog trainer.

From this class, 172 were elected school class officers, 414 held offices in school organizations, 493 were varsity sports participants, 363 were involved in a school or community music group and 579 worked part-time after school.

Also, 323 were involved in school publications, 303 were officers in a civic, community or religious group, 236 participated in drama, debate or dance activities.

All told, from the 5,748 students who applied to the Institute, 1,884 were offered admission and 1,070 are expected to register. This class represents 36 foreign countries and 49 states.

Approximately 300 women will enter with the class of 1989. About 40 black freshmen, 24 Mexican Americans, 22 Puerto Ricans and seven Native Americans are expected to register.

Each year limited information is collected from each applicant: two teacher evaluations, one from an activities leader in the community and one from a guidance counselor, a capsule comment from an MIT graduate who has interviewed the candidate, in addition to the applicant's essay, grades and test scores.

"From that information we produce a scholastic index which is objectively defined and a personal rating which is subjectively determined by two independent readers. Then we compare all of our candidates to decide which ones would benefit and contribute the most,' he said.

Nearly half of the freshmen received \$6,649,000 in financial aid, consisting of grants, loans and employment. More than \$22 million is awarded annually to undergraduates from MIT funds and independent sources coordinated by MIT.

Monday kicked off Residence/Orientation (R/O) week. The first to arrive were interna-

(continued from page 1)

Cambridge that hire TeenWork students.

Many of the teens work on a full-time basis from July 1 through August 30. However, they

are also available for employment 18 to 20

and nonprofit communities of Cambridge.

Participating businesses hire teens and/or

contribute funds to pay for employment of a

student at a nonprofit organization. The program is directed by Cambridge Community. Services with joint sponsorship of the Cambridge Chamber of Commerce and Just-A-

Start Corporation. Additional support is pro-

vided by the Cambridge School Department

and the Cambridge Department of Human

provides income to needy students, but also

exposes them to professional role models and

career situations. In addition, teens also learn

Judy Moore, a second-year TeenWork vet-

eran and a Boston College freshman, has

worked under supervisor Judy Quimby since

last year. "People are nice and the work is interesting," she said. "I've also learned word

To participate in TeenWork, students must

be recommended by their teachers and have

good grades and attendance. If chosen, stu-

dents must attend job-readiness training sem-

inars where they learn interviewing techniques, employer expectations, and employee

responsibilities. They also are assigned Teen-

Work job counselors who provide support and

assistance throughout program participation.

Established in 1983, TeenWork not only

Service programs.

new job skills.

TeenWork is a joint venture of the business

hours a week during the school year.

tional freshmen. Transfer students came today, and on Thursday and Friday the other freshmen will arrive.

The week's activities range from walking tours of Cambridge to fraternity rushes, reported Win Treese, R/O co-coordinator.

A highlight will be the President's Welcome Convocation in Kresge Auditorium on Friday. Featured speakers will be President Paul Gray, Provost John Deutch and Associate Provost Samuel J. Keyser. After President Gray officially welcomes new students, Professor Deutch will discuss MIT's multidimensional educational opportunities. Professor Keyser will talk to freshmen about using technology in ways that maintain and nurture the environment. He will draw on, among other things, his visit this summer to the Australian

Treese said the week includes housing selection beginning Monday, when "80 to 90 per cent of freshmen receive their first choice. Writing requirement tests will be given Tuesday in the Athletics Center. An academic welcome will be given on Wednesday by Dr. Frank Solomon of Biology focusing on the academic 'environment' of MIT. Discussions of freshman core programs with faculty and staff will also occur. Pre-registration begins on Thursday. Parents orientation is scheduled for Saturday and Sunday, with a panel chaired by President Gray. Participating in the discussion will be Dean Shirley McBay of Student Affairs, Professor Keyser, Professor Mary Potter, chairman of the faculty, and Bryan Moser, Undergraduate Association president.

The many other activities include an Ice Cream Novelties for women entrants in the Cheney Room on Friday; an informal meeting with representatives from co-ed independent living groups and the Women's Independent Living Group; and a pizza party and jazz night sponsored by the Women's and Minority R/O for all new students in Walker Memoral, Treese

them form their future goals. Paul Pinheiro

said the data processing skills he learned

helped him decide to become a computer

Harun Gadatia said he is learning about

Celia Viveiros, a sophomore employed in the

HST Program, said her newly acquired word

processing and office skills will help her

toward her goal of someday opening a boutique.

Last spring, departments throughout MIT

were asked to provide summer jobs for Teen-

Work students. Inquiries from interested de-

partments were sent to Susan Golden, director

of TeenWork. Selected teens came to the Insti-

tute for interviews, where they filled out appli-

cations. Some even took typing tests. They

"The support of the business community

Because of limited funding only 200 students can participate in TeenWork. "But if I can't

A new program to groom younger students

hire a student I will give him or her a referral

for TeenWork is in the design stage. "After

attending workshops and receiving academic

enrichment, they will be placed in internships to learn new job skills," she said.

Robert Elkins, a senior and assistant groundskeeper at Physical Plant, who likes the

responsibility of his work, said, "I hope to come

and Cambridge. Mr. O'Brien, a retired porter in

the Housing Service, worked at MIT from 1938

until his retirement in 1975. He died July 28.

of Wilmington, a daughter, Mary Dunn of

Marshfield, a brother and sister, and seven

A funeral was held Saturday in West Con-

cord Union Church for Walter B. Renhult Jr.,

68, a retired staff member at Lincoln Labora-

tory. Mr. Renhult, who died August 21, worked

at Lincoln from 1945 until his retirement in

Renhult; two daughters, Susan Davies of

Concord and Ann Renhult of Boston; a son,

Mark Renhult of Concord, and two grand-

children. Memorial contributions may be made

Charles E. Wilkins, 68, of Jamaica Plain, a

to the American Cancer Society.

Charles E. Wilkins

He is survived by his widow, Miriam Hall

Walter B. Renhult Jr.

Survivors include a son, William J. O'Brien

Further information on TeenWork can be

to another agency," she added.

has been overwhelming, especially MIT," said

were then matched with the right job.

the working world first hand, and not in the

THE INSTITUTE CALENDAR

August 28-September 8

Events of Special Interest

Roommate Get-Together** - Off-Campus Housing Service gathering for people who already have housing to find roommates, Mon, Sept 9, 5-7pm, Ashdown House Main Dining Room.

Seminars and Lectures

Friday, August 30

News Reporting in/and/about West Africa* - Austin Yao and Hughes Kone, research associates in communication, U. of Abidjan, Center for Audiovisual Education and Research (CAER), Center for International Studies/BU African Studies Center/Harvard Africa Research Center seminar chaired by Prof Willard Johnson, MIT, 12-1:30pm, Rm E38-615. Bring your lunch.

Thursday, September 5

MIT-Japan Science and Technology Program Open House** – Prof Richard Samuels, program director, MIT Japan Science and Technology Program meeting, 5:30-7pm, Stu-dent Center Mezzanine Lounge. Sake & crackers served.

Applications of Adaptative Control to Fermentation Processes* - Dr. Denis Dochain, Universite Catholique de Lovain, Belgium, Chemical Engineering seminar, 2pm, Rm 66-360.

Community Meetings

Al-Anon** – Meetings every Fri, noon-lpm, Health Education Conference Rm E23-297. The only requirement for membership is that there be a problem of alcoholism in a relative or friend. Call Ann, x3-4911.

Alcohol Support Group** - Meetings every Wednesday sored by MIT Social Work Service. For info call Ann, x3-4911.

Narcotics Anonymous* - Meetings at MIT, every Mon, 1-2pm, Rm E23-364 (MIT Medical Dept). Call 569-8792.

MIT Faculty Club** - The Club is open Mon-Fri. Luncheon hours: noon-2pm; dinner hours: 5:30-8pm. For dinner and private party reservations, call x3-4896 9am-5pm daily.

Commodore Users Group** - meets monthly at noon time. For more info, call Gil, x8-3654 Draper.

International Open House** - For all internationals newly arrived at MIT, Sept 34, 9:30am-5pm, Rm 10-105. Evening with MIT Faculty — Sept 3, 7:30-9pm, Rm 10-105. If you are already familiar with MIT, help to orient newcomers.

The Language Conversation Exchange** - sponsored by the Wives'Group, seeks persons interested in practicing languages with a partner. Many international students and spouses wish to practice English with a native speaker. If you are willing to help an international visitor practice English and/or interested in practicing or learning a foreign language with a native speaker, call the secretary to the Wives Group,

MIT Women's League Informal Needlework Group** Wednesday lunchtime gatherings, 9:30am-1:30pm, Rm 10-340. Bring sack lunch, projects, swap ideas. Coffee & tea served. Meeting dates: Aug 28 (Killian Court), Sept 11, 25, Oct 9, 30. Nov 13, 27, Dec 11, Jan 8, 22, Feb 12, 26, March 12, 26, April 9, 23, May 14, 28. For more info, call Lillian Alberti (491-3689), Nancy Whitman (x3-6040) or Beth Harling (749-4055).

MIT Activities Committee

MITAC, the MIT Activities Committee offers discount movie tickets for General Cinema (\$2.50), Showcase and Sack Theaters

(\$3.00). Tickets are good 7 days a week, any performance.

Tickets may be purchased at MITAC Office, Rm 20A-023 (x3-7990), 10am-3pm. Mon through Fri and Lobbies 10 and E18 on Fri, 12-1pm. Please note: there are no ticket sales in Lobby 10 during the month of August. Also, no MITAC events are scheduled for August, but MITAC will be back with more exciting of ferings in September. Tickets will not be sold in E18/E19 during August Lincoln Lab employees may purchase tickets in Rm A-270 from 1-2pm, Thursday and Friday only. Beginning in September, Lincoln Lab employees may purchase tickets in Rm A-270, 1-2pm, Tuesday thru Friday only. Check out our table of discounts for camping, dining, musical and cultural events available to you through MITAC and MARES (Mass Assoc of Recreation and Employee Services).

Council for the Arts Museum Passes. On campus, there are 10 passes employees may borrow for free admission to the Museum of Fine Arts. To check on availability, call x3-5651. At Lincoln Lab, passes are available in the Lincoln Lab Library,

Don't Miss It!. Watch for the new Fall MITAC flyer, jampacked with interesting events! Coming out in early Septe

Museum of Science Tickets. Available for only \$1. (Pay another \$1 at the door, for a total savings of \$3/person - reg. \$5/person admission).

Important! To avoid disappointment, purchase tickets and make reservations early as we are limited by ticket availability and transportation. All MITAC events and ticket purchases are non-refundable due to the non-profit nature of our

Social Activities

Live Music at the Thirsty Ear** - Weds thru the summer, 9pm, Ashdown House Thirsty Ear.

Orientation Harbor Cruise** - Graduate Student Council Boston Harbor cruise, Sept 6, 7:30-10:30pm, Boston Harbor Cruises Pier #7. Tickets, \$4 at the GSC Booth, Lobby 7 during Orientation Week or Call Ann, x3-2195. Live DJ, free snacks, cash bar, must be 21 or over with picture ID to get on the boat.

GAMIT Sunday Discussion Meeting* - Gays at MIT, Suns, 5pm, GAMIT Lounge, Walker Memorial Rm 50-306. Dinner served at 6:30pm.

GAMIT Study Break* - Gays at MIT, Thurs, 9pm, GAMIT Lounge, Walker Memorial Rm 50-306.

Table Francaise** - sponsored by Foreign Languages & Table Francaises = sponsored by Foreign Languages. Literatures Section. Venez dejeuner avec nous et parler fran-cais! Votre hote: Helle Kristoffersen. Tous les Lundis, de 12:30 a 14:00, Muddy Charles Room a Walker Dining Hall.

Music

Summer Band* - John Corley, director, meets Tuesdays, 7:30pm, Lobdell. Any woodwind or percussion player interested is welcome. Call Ed Ajhar, x3.7466/days or x5.7629 dorm/eves or John Guppy, 646-3395.

Theater

Applause* - MIT Musical Theatre Guild production, Aug 30-Sept 1, Sept 6-7, Sept 12-14, 8pm; Sept 14, 3pm, Kresge Little Theatre. Tickets: \$6; \$5/MIT faculty & staff; \$4/students & nior citizens; \$3/MIT students. Reservations: x3-6294.

Galileo Auditions* - MIT Community Players auditions for Bertolt Brecht drama, Sept 2-3, 7pm, Kresge Rehearsal Rm B.

Dance

Tech Squares Western Square Dancing* - Club level dancing through the summer, Tuesdays, 8-11pm, Student Center 2nd floor, Dennis Marsh, caller. Beginners class starts in

MIT Folk Dance Club* - weekly dancing-Sundays, Interna tional Dancing, 7:30pm, Student Center Sala de Puerto Rico; Tuesdays, Balkan and Western European Dancing, 7:30pm, Rm 407 Student Center, Wednesday, Israeli Dancing, 7:30pm Sala

Yoga* – ongoing classes in traditional Hatha and Iyengar style. Beginners: Mon, 7:20pm; Intermediates: Mon, 5:45pm. For information call Ei Turchinetz, 862-2613.

Exhibits

COMMITTEE ON THE VISUAL ARTS Albert and Vera List Visual Arts Center Jerome & Laya Wiesner Building

Hayden Gallery - Student Art Loan Exhibition and Lottery, over 260 signed prints and posters from the List Student Loan Program and the Catherine N. Stratton Collection of Graphic Art available for loan to full-time registered MIT students. Lottery cards may be filled out until 4pm, Sept 12. Drawing held Sept 13. Aug 30-Sept 12. Hours, M.F. 10-4; Weekends, 1-5pm

THE MIT MUSEUM

I.M. Pei: Selected Projects, through December. Gjon Mili'27: I.M. Pei: Selected Projects, through December. Gjon Mili'27:
A Tribute, Born in Rumania, world famous photographer Gjon
Mili studied electrical engineering at MIT and pioneered in the
use of electronic flash and multiple exposure photographs. In
1938 he began doing stories for Life magazine. ongoing. John
W. Winkler, Etchings from the William B. DuBois'41 Collection, through August 31. MIT Design Services: Jackie Casey
and Ralph Coburn, Showcase of posters by MIT's awardwinning designers, ongoing. Of Aerostatic Machines: Early
Ballooning in France and Britain, Prints from MIT's Vail
Collection illustrate the development of ballooning as a science Collection illustrate the development of ballooning as a science and sport including fanciful inventions for steering ballons, and aerial views of Paris and other cities, ongoing. Physics at the Laboratory for Nuclear Science: 36 Years at LNS, ongoing. Hours: Weekdays 9am-5pm, Saturdays 10am-4pm.

Compton Gallery - Expanded Vision: Works From the Technological Age, Artist Bill Parker's interactive plasma sculptures which synthesize scientific knowledge and artistic composition. Parker is a former fellow at the CAVS, through

Hart Nautical Gallery

Ongoing exhibits: Currier & Ives Prints From the Hart Nautical Collections - Colored lithographs of sailboats, steamboats, clipper ships and whalers. George Owen '94: Yacht Designer - Line drawings and half-models designed by one of the early professors of naval architecture at MIT. MIT Seagrant - A review of MIT ocean research; Collection of Ship Models - Half-models and drawings. Historical view of the design and construction of ships.

Edgerton's Strobe Alley - Exhibits of high speed photography. Main corridor, 4th floor.

Corridor Exhibits: Building 1 & 5, 2nd floor: John Ripley Freeman Lobby, Building 4: Rogers Building, Norbert Wiener, Karl Taylor Compton. Community Service Fund, Ellen Swallow Richards. Women at MIT. An overview of the admission of women at MIT. Five photographic panels with text documenting the circumstances that increased the number of women in the classroom since Ellen Swallow Richards. Building 6: Laboratory for Physical Chemistry. Building 8: Solar Energy, Society of the Sigma XI. Building 14N, across from Rm 14N-118.

OTHER EXHIBITS

Institute Archives and Special Collections - Planning the New Technology. Part Two: Constant Desire Despradelle. Part two of a three-part series about the relocation of MIT from Copley Square to Cambridge portrays the impressive design of architect and teacher Despradelle. Though he died before the project began, several of his ideas were incorporated into the ultimate plan by his successor, William Welles Bosworth. Hall exhibit case across from 14N-118.

MIT Faculty Club - P. Baker: Photographs. An exhibit of some 25 bew photographs by Paul Baker, assistant to the director, MIT Museum – includes portraits, architecture and semi abstractions, through August

Jerome B. Wiesner Student Art Gallery - for 1985 scheduling, any MIT student or student group interested in showing or performing art in the Gallery, call Andy Eisenmann, x3-7019 in Rm W20-429, M-F, 9-5.

Wellesley Events

Jewett Arts Center* — Diane Arbus: Magazine Work 1960-71, 79 photographs by one of the most original and influential photographers of recent decades, Sept 6 through Oct 27. Processes and Techniques of Photography, explores variety of processes and techniques, Sept 6 through Oct 20. Prints and Drawings from the Renaissance and Baroque, organized by Prof Richard W. Wallace in conjuction with the course on Painting Company of the Let 16th and 17th Contraining the Let 16th and 17th Contraining ting and Sculpture of the Late 16th and 17th Centuries in Southern Europe, Sept 6 through Oct 20.

*Open to the public
**Open to the MIT community only

***Open to members only

Send notices for Wednesday, September 4 through Sunday, September 11 to Calendar Editor Rm 5-111, before noon, Thursday, August 29.

obtained from Mrs. Mulcahy at x3-1674. Some students said TeenWork is helping

Obituaries

Teens win praise as employees

technician

classroom.

the right job.

back next year."

grandchildren.

Golden.

Richard E. Brown

processor and typing skills.'

Richard E. Brown, 55, of Medford, a technician at Lincoln Laboratory, died August 10. Mr. Brown had worked at Lincoln since 1961. He is survived by his widow, Lillian

Moultree Brown, a son, Danny A., and a daughter, Wanda J. Brown, all of Medford. Memorial contributions may be made to Kingdom Hall, Jehovah's Witnesses, Medford.

George T. Collins

A funeral Mass was held August 20 for George T. Collins, 73, a retired project technician at the National Masgnet Laboratory. Mr. Collins worked at MIT from 1964 until his retirement in 1977. He was a resident of North Hampton, N.H. and formerly lived in Arlington and Dorchester.

Mr. Collins is survived by his widow, Winnifred Webster Collins, who also worked at MIT for many years in Ashdown House, and a son, Richard W. Collins of Georgia. He also leaves two sisters, five grandchildren and two great-grandchildren.

William J. O'Brien

A funeral Mass was held in Marshfield for William J. O'Brien, 75, formerly of Somerville

day supervisor in Physical Plant, died sud-denly July 31. Mr. Wilkins had worked at MIT since 1952 and was a member of the Quarter

Century Club.

He leaves his widow, Virginia Holt Wilkins; two sons, Thomas E. of Jamaica Plain and

Donald F. of New Mexico, and several nieces.

Page 4, Tech Talk, August 28, 1985

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x3-2776.
INSTRUCTIONS: Ads are limited to one (of approximately 30 words) per person per issue and may not be repeated in successive issues. All must be accompanied by full name and extension. Per sons who have no extensions or who wish to list only their home telephones, must come in person to Rm 5-111 to present In-stitute identification. Ads using exten-sions may be sent via Institute mail. Ads are not accepted over the telephone

Deadline is noon Thursday before publication

For Sale

Mistral supr lght sailbrd, Regatta sail, usd 2 summrs, time to update, askg \$800. Michael, x3-5668.

3-pc den set: chr, rckr, 6' sleep sofa, rckr & sofa are brwn vnyl, chr is bge, strdy, well-md, gd cond, \$200. Bob, x8-2357 Draper.

Rdng Iwn mwr, 28" Snapper, nw eng, inc grss ctchr, exc cond, nw \$1,200, \$550. Joel, x2855 Linc.

Free: Sears 30" wh gas rnge, gd cond; Sears prtbl dshwshr, fair cond; bth wrk, you move. Mary x8-1828 Draper.

yr ago, \$350 or bst. Call 776-7462 after 4pm.

Twn bed box spr & mttrss, 1-yr-old, \$75. Fran, x3-3341.

Lantz fridge, drm-sz, 4 c.f. Joanne,

Sd tbl & 2 chrs. tbl lks nice w/nw varnsh. \$50. Call x3-5502 or pref 267-1732 eves

Mtrcycl access: KG trvl trnk, blck, \$60; KG rck, blck, \$20; Cibie halogen hd lmp, rnd, \$15; rck 7 hd lmp for Yamaha twin or similr bike. Paul, x3-6908.

Set of Fctry Srvc Mnls for '78 Ford, Mer cury & Lincoln, \$25; grill for '78 Fa mont, \$30. Call x3-7239 or 893-3373.

3 cntmpry mtchng LR tbls, \$250 or bst. Robert, x3-1737 or 894-5562.

Kodak Pleaser instnt camra, br nw in orig bx, \$15. Call 484-0802.

Mod. mlti-positn adjstbl chrom stndup lmp w/3-way blb, \$30 or bst. Call 566-5873 lv mssg.

Dbl bed, mttrss, bx spr & frm, \$75. Tony,

Hartman grmnt bg, exc cond; begnnr's guitr & case. Call x3-1784 12-3pm only.

Franklin stv, like nw, \$250 or bst; Sanford's penit bl/blck ink, 4/5 bottls, 750cc, \$5 ea. Call x3-7117 or 353-0825.

Wool coat, tan w/lning, zpprd hood, M's 38R, \$20; Levi's jeans, 31Wx34L, boot cut, nvr wrn, \$5. John x3-8117 or x5-9757

25" RCA colr ensl tv. nds flyback tranf,

\$25 or bst. Joel, x2855 Linc.

GE fridge, 15 c.f., wrks well, \$75. Joel,

W's 10-spd bike, exc cond, med sz, Shogun, inc lck & hlmt, \$150 or bst. Laura, x3-6404 or 471-3945.

Lvseat & chr, gd cond, \$200; Kenmove 15 c.f. fridge w/bttm frzr, cpprtone colr. Gretchen, x3-4657 or 667-8453.

9" montr for PC, Sanyo VM 4206, \$60 or bst. Scot, x3-2421 or 643-0478 eves.

Adam cmptr/wrd pressr, nw cond w/lttrqlty prntr, \$200 or bst. Steve, x3-7214 or 494-8989 eves.

Orange, mod, full-sz formica DR tbl, \$25 Mike, x3-6997 or 661-8974.

Old auto wshr, gd cond, gd for cottg or sgl apt, \$25 or bst; green irn Glenwood stv, exc cond; green shag rug, exc cond, 12x17. Joan, x3-3557.

Bed, box spr, frm, mttrss, 10-mo-old, like nw, \$80; 2 comfy chrs, \$20 ea; 4 ktchn stools, \$10 ea; 2 chsts of drwrs, \$15 (nds hndls) & \$25; carpt, approx 9x12', brwn, 10-mo-old, \$60; vac clnr, \$30. Chris, x3-1817 or 776-3369 or Ian, x3-4550 or Jun, x3-1670.

Br nw 8-pce sctnl LR set, bge, still has tags on, was \$3,600, askg \$1,600; It bge plaid sleep sofa, perf cond, was \$799, askg \$350. Deborah, 528-2413 eves.

Kenmore dryr, \$150 or bst; SMC typwrtrs. mnl \$25, elec \$45; stdnt-sz dsk, \$45; dsk chrs, \$15-55; stereos w/2 spkrs, AM/FM, trntbl, \$45-85; vac clnrs, \$35 & \$45; attache cases, Samsonite \$35, Tourister, \$25, nw cond; cheap furn: chrs, tbl, sofa; twn mttrss, \$10, bedsprds: twn & K-sz, \$8-25; 12" Toshiba colr tv, nds minr rprs, \$35. Call 332-8251.

Furn: "L"-shapd sleep sofa, bkcse wall unit w/bar, teak finsh, 6 mtchng chrs, rosewd-top DR set, exc strtr furn, nw \$2,050, all \$1,500. Ted, x3-1212 or

30 pounds in Br coins, gd exchng rate, won't exchng coins. Mr. G. Smith,

x3-5049. Sturdi-Craft cabnts w/slidng drs, fctry cartns (KD), 30% below retail, 2-shlf unts 30Hx30Wx15D, 4-shlf unts

60Hx30Wx15D. Call x3-6092 or 491-2856. Cntmpry sofa, bge, 1-yr-old, frm Scandvn Desgn, perf cond, cst ovr \$600, mst sell, \$300. Call x3-1758 or 522-2933, lv mssg.

Prtbl Kenmore dshwshr, 3-lvl wsh, 1-yrold, exc cond, ownrs lvng cntry, list price \$500 nw, askg \$225. Paul, x3-6839.

Entr hsehld, Scand & btchr blck furn, oak pltfrm bed, bkshlvs, hswrs, ktchnwre, baby itms, W's clthes, all in exc cond. Call 492-5162 anytime.

Cainer csemnt wndw a/c, usd 3 seasns, strd indrs in wntr, \$95 or bst; 2-spd a Maytag gas dryr, exc cond, \$190; HP9816S tech cmptr, MC 68000 cpu, 16/32 bit, 512Kb ram w/HP9121D dual 31/25 dot, HP82906A dot matrx prntr, HBIB & RS232C intrphases, 9" hi res mntr, HP Basic 3.0, HP Pascal 2.1 + more prgrms & access, 1-yr srvc cntrct left, lists \$13,000, askg \$5,900. Diana, x3-0408 or 449-7654 eves

Maytag elec dryr, \$220 or bst. Faustino, x4665 Linc or 894-3007 eves.

Gold sofa & lv seat, rolld-arm styl, jst clnd, gd cond, \$100 set or sold sep; cannistr vac w/attach, gd cond, \$25. Lucy, x3-2774 or 269-4245, lv mssg.

Btfl pine cffee tbl w/smokd glss top & 2 mtchng end tbls, \$245 set, will sep if ncssry. Demetri, x3-7906.

IBM-PC, 256K, 2 dsk drvs, b&w mntr, Epson FX-80 prntr, sftwr, exc cond, \$2,000 nego. Debbie, x3-4005. Gd-qlty Warwick dnnrwre, usd 35-pce set,

wh w/purpl & gold trim, \$20, sample can be seen on campus; sgl tckt to Boston Chamber Music Society concrts Sanders Theatre, Harv, 11/17, 1/19, 3/2, 8pm, \$7 ea. Jim, x3-3751 or 625-9431. Lwn mowr, 20" pwr-proplld Sears Craft-

sman w/3.5 resrv pwr, rear baggr, easily adjstbl whls & safety cntrl bar, used 4X, exc cond, undr wrrnty, \$300. Kathy, x3-3103.

2 sets of 256K RAMs, \$55 ea, nego. Ray, 872-2813, 7-9pm.

Panasonic PBS/AM/FM radio, \$20; BR lmp, \$10; Popular Mechanics Do-Itrself encyclpdia, 22 vols, like nw cond, \$100. Ito, x3-1833

Sunfish sailboat, 8-yrs-old, v gd cond, free car-top carrier, \$500. Eileen, x3-7052 or 646-4207.

Sm fridge for dorm rm, exc cond, tan colr, 2-yrs-old, usd only 6 mo, \$60. John, x3-1212 or 289-5641.

Almst nw pine dintte, hmstd styl w/4 chrs, \$200; bge sleep sofa, \$200; cptn's chr, \$20; stereo, \$50; shlvs, \$30; coatrck, \$20; elec broom \$15; ktchn utensls. Patricia, x3-6522 or 628-0308.

Lrg fridge, \$50. Keith, x3-4327 or

Q-sz sofa bed, v gd cond, \$170 or bst; cttn bed spread, \$10; sm wd tbl. \$15; AM/FM stereo rcvr, Technics SA80 & 2 spkrs, TDC ffl4, \$100; 4 curtns, \$15; 5 pots & pans, \$20. Wafik, x3-7868 or 876-7160.

Sofa, \$50; cffee & end tbls, \$50; chst of drwrs & mirror, \$75; 2 end tbls, \$20; hi chr, \$40; rug, \$40; wshr, \$30; chld's tbl & chr, \$10. Call x3-4337 or 731-4565.

Panasonic 13" colr tv, 8-mo-old, wrrnty thru 12/86, like nw, mst sell, lvng cntry \$200. Octavio, x3-4451 or 494-5342.

Lrg hvy Chrysler a/c, free to gd hm. Bonnie, x3-3039 or 864-4420 eves

Hermanez clsscl guitr, exc cond, \$100; fridge, 15 c.f, 3-yrs-old, exc cond, \$100. Marta, 322-0745.

Bike/mtrcycl, lrg-shackle (12") lck, pckproof, nw, boxd, \$15. Dave, x3-5121 or 876-6326 eves.

Wd dsk, 42x30, w/3 drwrs, \$35; mapl

Antq furn: 10-pce DR set, \$1,800; mahog sofas, \$500 & \$800; BR set, \$400. Call 623-8553 eves.

Mahog BR set: 2 twn 4-postr beds, vanity mirror w/chr, 5 drwr drssr, nght stnd, \$300; teak rolltop dsk, \$200; mtchng chest, \$100; twn mttrss & bx spr, nr nw, \$75; 30 gal Bradford-White hot wtr htr, nr nw, \$75; 4-brnr Glenwood gas stv, ovn nvr usd, \$175. Call x3-5320 or 646-0352

Twn-bed frm, spr & mttrss, \$25; uphlstrd easy chr, \$15; prch swing, \$15; scratching post, \$5. Beverly, x3-5139.

DEC Rainbow 100B, 2567K, 2 36KB floppy drvs, colr grphc brd, VT180 gr mntr w/mny sftwr, MS-DOS, CPM 80/86, Lotus 123, Final Word, GW-BASIC, MBASIC, GSX-86, etc. askg \$1,495 or bst. Kyuha, x3-0793 or 893-8221.

Wtrbed, Q-sz, cmplt pckg, \$500 firm; drftng instrmnts, set, \$150 firm; DeFord flute, strling silvr, opn hole, in line, \$1,200 or bst. Julie, x3-3651.

Violin, 100 yrs old, v gd sound, case, Pfretzschuler bow, \$2,000. Frank, x8-1476

Draper or 275-6632 eves

Vehicles

'68 Jeep, 4-whl dry, boat htch, gd eng & trs, nds rst rpr, \$400 or bst. Call x3-1316.

'72 Plymouth Valiant, nds a lttl wrk, auto, 2-dr, some rst, asking \$299 or bst. Call x3-4629 or 924-7124 eves.

'72 Volvo sta wgn, 151K, exc mech & bdy, bst offr. Ed, 863-5770 or 259-0642 eves

'73 VW Beetle, exc cond, reblt eng, semiauto trans, AM/FM/cass, 5 gd trs, rad snws, rfrck, \$1,100. Brian, 876-7193

'73 VW Beetle, rear wndw dfrstr, AM/FM, exc cond, mst be seen, \$2,000 firm. J. May, x8-2843 Draper.

'74 Dodge Dart, 4-dr, 8 cyl, frnt trs nw undr wrrnty, \$1,500 or bst. Roy, 643-6465.

'74 Toyota Corolla, grt car for Boston drvrs, bdy looks bad, book value \$900, askg \$100. Call 536-2770 anytime.

74 Olds Cutlass, 79K, auto, nw trs, jst tund w/plugs, \$600. Dan Killoran, x8-2910 Draper or 598-6586 aftr 2pm.

'74 Montega, red, 60K, auto, a/c, nds a lttl wrk, usd as 2nd car, \$200 or bst. Call x3-6452 or 721-2549.

'74 Ford Gran Torino sta wgn, pb, ps, a/c, 90K, 2nd ownr, rnning cond, \$600. Call x3-4337 or 731-4565.

'74 Olds Cutlass Supreme, 64K, gd cond, \$1,200. Call x3-6652 or 491-6781.

'74 Ford LTD, nw trans, strng eng, gd bdy & int, \$750. Call-x3-3353 or 628-5092. '74 VW, eng gd, uppr bdy ok, undrbdy &

frnt end nd some wrk, \$200 or bst. Frank, x8-2285 Draper. '74 Ford Gran Torino, auto, ps, pb, gd trs & eng, decent bdy, dpndbl cty car, \$400. Call x3-6675 or 625-1748.

'75 Dodge Coronet, 4-dr, 318 V8, auto, rad, muff, dsc brk, rnning gd, \$400. Call

x7334 Linc or 235-6529. '75 Matador, American Motors, 87K, no rst, 4-drs, 6 cyl, gd-lookng, lvng entry, m sell, \$750 or bst. Jean-Pierre Guigay, x3-4200 or 354-6749.

75 Camaro, 6 cyl, 110K, gd cond, nds paint, bdy sound, rns well, \$1,000. Call x3-2952 or 332-5988.

'75 Dodge Colt, 4-spd, 65K, sunrf, AM/ILFM, nw frnt brks, rear wndw defggr, gd cond, rns well, some rst, nds shcks, \$950 or bst. Nancy, x3-6171.

'75 Fiat 131 sta wgn, gd cond, nw brks, AM/FM/cass, 2 snw trs xtra, \$750 or bst A. Hamid, x3-3198 or 494-1611.

'75 Olds Cutlass Supreme, 90K, exc trnsprt, 1-ownr, ps, pb, a/c, exc mech cond, some rst & suprfcl bdy damge, gd do-ityrslf job, \$800. Joel, x2855 Linc

'76 Ford LTD sta wgn, 61.3K, rnning cond, fctry air, xtras, \$650. Frankel, x3-6763 or 734-2221 wkends. '76 Ford Pinto, exc cond 76K, mnl,

AM/FM, nw muff sys, rads (2 nw), snws, orig ownr, maint log book, nw cltch, brks, timng belt, wtr pump, no rst, \$1,000. Pete, x3-7253. '76 Honda mtrcycl, 550 Supersport, 4 cyl,

9.6K, exc cond, inc helmt, bck, bckrst, lck mnl, \$900 or bst. Tom, x4212 Linc or '77 Datsun 280Z, 60K, rcnt paint, \$1,000 sound sys, T-rf, alrm, T-A rads, sheepskn seat cvrs, Fuzzbstr, Continental rad snws,

rd lmps. Michele, x3-5993 or 1-877-2075. '77 Buick Estate wgn, 9-pass, 70K, air, pw, pwr lcks, ps, pb, AM/FM, clck, clth

eats, rfrck, nw trans, batt, cmplt exh, wdgrain sides, no dnts, \$3,300. Call 77 Subaru 1600DL, 2-dr, 4-spd std, nw batt, nds some exh wrk, rns grt, \$550 or

5:30pm. '77 Honda Accord, a/c, AM/FM/8-trk stereo, rfrck, full maint rcrds, orig ownr, \$1,800. Call x3-6997 or 489-4150.

Tony, x4587 Linc or 926-5003 after

'77 Subaru wgn, 4-WD, 4-dr, 4-spd, 117K, AM/FM/cass, orig ownr, some rst, reg gas, rns gd, gd snw car, \$650 or bst. Bill, x8-1450 Draper or 646-4522

'78 Mazda GLC, 4-dr htchbck, silvr colr AMI/FM stereo, rear wndw wipr & dfrst, 79K, mny nw parts, nds nw trans, mst sell, will accpt any rsnbl offr. Call 926-2317.

'78 Yamaha 400X-S mtrcycl, rns prfctly, br nw batt, v lo mi (5.8K), 70mpg, mst sell, askg \$600. Call x3-6884 or 423-3206

'79 Olds Cutlass, 2-dr, 6 cyl, auto, 89K, disk brk, 4 nw rads, 2 snws, gd cond, rlbl, \$2,200. Call x8-2964 Draper or 668-7750 eves

'79 Chevette Monza, 59K, AM/FM/cass, 4 cyl, 4-spd, exc cond, 2 snw trs xtra. mst sell, \$1,800 or bst. Call 527-8724 eve

79 Mercury Capri, lt bl w/blck trim, 45K, 4-spd mnl trans, suprb_cond, a/c, AM/FM/tape, htchbck, 4 cyc, nw trs, bst ovr \$2,500. Call x3-7265 or 524-7981 after 5pm.

'80 Olds Cutlass Supreme Brougha AM/FM stereo, ps, pb, pw, pdl, 60/40 pwr seats, tlt, clck, rear def, remote mirror & more, 45K, exc cond, \$5,750 or bst. Annette, x3-8199.

'80 Pontiac Phoenix, 84K, ps, AM/FM/cass, 5-dr htchbck, gd cond, dk bl, \$800 firm. Frank, x3-1746.

'80 VW Rabbit L, metllc bl, 2-dr, 4-spd, diesl, a/c, AM/FM, exc cond, \$2,300. Call x3-4491 or 494-5342 late night.

Olds Cutlass wgn, auto, ps, pb, AM/FM, rear dfrst, tntd glss, lo mi, 41K, only \$5,250. Tony, 623-8573.

'81 VW Rabbit, 4-dr, auto, 35K, AM/FM, Chapman, exc cond. Call 492-5162 anytime.

'81 Audi, 4-dr, sunrf, AM/FM/cass stereo, std, exc cond, 87K, \$4,500 or bst. Sandy, 599-3187. '81 Plymouth Reliant sta wgn, std, 4 cyl

pb. AM/FM/tape, rfrck, rstprfd, exc cond, nw cltch, jst tund up, 57K, \$3,850 or bst.

'82 Honda CM250c mtrevel, blck/silvr, lk 1.9K, usd 1 seasn, \$850 or bst. Russ, x7680 Linc or Susan, 481-0953 eves.

an Sentra wgn, dlx 5-spd, she cond, 46K, 43mpg, askg \$4,795. Call x3-8242 or 1-875-5168 eves

'83 Subaru, bge, 2-dr, grt cond, 9K, mst sell, \$5,500. Marion, x3-4438. '83 Ford Escort, 4-dr, 4-spd mnl, 1-ownr, 44K, exc cond, \$3,500 or bst. Martin,

x3-6482. '84 Rabbit diesl, exc cond, all chck-up paprs avlbl, \$5,000 or bst. Call x3-6081 or 332-8251.

Housing

Cape Cod condo, P-Town, 2 rm studio, beach access, prch, lrg yrd, \$500/mo. Michael, x3-5668.

P-Town, fully eqppd effcncy condo, beach frnt, 2 pools, tennis, etc, 10/5-12, \$250. George, x8-4643 Draper or 696-4532.

Btfl Brookline apt in secure bldg, conv loctn to T, med area & U's, fully eqppd, 1BR, lrg LR, ktchn, \$925/mo inc ht & hw. Ragnhild Reingardt, 277-6628 or 738-8503.

Atlanta, GA, 3-4BR condo, 3200 s.f. in 5-yr-old complx, 3½ bath, LR, DR, stdy den w/frplc, jacuzzi in mstr bath, 2 enclsd prchs, priv storg & Indry rm, tennis courts, clbhse, pool, pix avlbl, \$124,900. Kim, x3-1740 or 471-8790 or Paul,

Cambridge, lvly 2BR condo avlbl mid-Oct for 2-yr lease, \$1,000/mo, no pets/chldrn, wlkng distnc to MIT. Call 491-6835 eves.

Newton, 3BR apt, bus line, avlbl Sept-Oct, \$650/mo inc utils. Call 527-8724 eves. VT, Montpelier area, 7 rm cape, 4BR, 21/2

acres, grt view, full cellr, dck, 7 yrs old, \$50,000 or for rntl (call for detls). Keith, x4412 Linc or 486-0256. Concord cntry hm, 5BR, 2 baths, 2-car garg, on 2 acres, nr schls, trans, twn wds

swim-tennis club, refs reqd, \$1,500/mo¢ utils. Call 354-0410 or 369-1684. Brookline, sm 3 rm apt, bath & ktchn, sep entrnc, prkg, Fisher Hill-Cleveland Circle

area opp Runkle School, 2 blcks to T, avlbl 9/1, \$635/mo inch ht & elec. E. Frankel, 734-2221 wkends. Waltham, 3BR, 2bath hse on quiet st, ht & stv, for rnt thru Spring '86, \$850¢

utils, nr bus to Ctrl Sq, shppng, fmly nbrhd. Jean, x3-4629 or 924-7124.

Animals

Free to gd hm: tigr kttns, 10-wks-old, M&F, mny colrs, dbl paws. Carole, x3-4111 or 1-447-4695.

4 kttns nd hms: F blck w/dbl paws; M gr/wh part coon, ea 14-wks- old; F tortshelll, 10 wks; F wh, 8 mos. Harvey,

Free kttns to gd hm, 3 br tigr M's, 1 gr tigr F. Call x3-2828.

Wanted

Vistng prof & fmly sk suburbn housng, 9/1-12/15/85. Call x3-6652 or (614) 422-0192/764-2714.

Hlthy 65-yr-old M volntrs for NIA-funded stdy on eatng pttrns & the effct of food on mood, recv \$200. Sharon, x3-3087.

Musicns to play in Thirsty Ear Pub, Weds eves, pay nego. Taiwo, x5-9763 dorm or Wnt to but/rnt marimba, xylophone or

similr instrmnt of at least 31/2 octaves.

Bruce, x3-5570 or 277-1470. Prof cpl sks sgl unfurn rm in priv hm to rent, \$200-250/mo range, ktchn privlgs not critical, pref Charlestown, Somerville or Cambridge, we're quiet & out mst of time, nded 10/1. Kim, x3-1740 or

1 usd M-sz trnk. Jov. x3-4962.

471-8790 eves.

Mvng to 2 rm hsehld frm Needham to Waltham, nd mvng hlp. Susan, x3-2285 or 646-0181 eves.

MIT Women's League Child Care sks chld care wrkrs, startng 9/17, T/Th, 8:45am-12noon. For more info, call Mrs. Kanda, 492-6324. Rspnsbl babysttr nded for 17-mo-old chld.

no schedule/hrs, as nded, mstly nights when chld is asleep, pref F w/some exp. Call 536-2770 anytim

Volntrs for Intrntnl Open House, 9/3-9/4. 9:30am-5pm, Rm 10-105. Call x3-1614.

Kresge stckr for East Garage. Prof Kildow, x3-5310. Usd Volvo wntd, mnl trans, gd mech, gd int, bdy not imprtnt but mst pass MA inspctn; fridge for drm rm wntd, mst have frzr. Paul, x5-6607 dorm or lv mssg at

Roommates

Belmont, btfl 2nd flr apt to shr w/non-smkng F, quiet st, frplc, all mod conv, \$350¢ utils, avlbl 9/1, no pets. Janet,

Mature consdrt W wntd to shr exquisite mod twnhse w/same & coopertve teenage dghtr accustmd to shrd lvng, 3BR, 1.2/2 baths, 12 min wlk, 6 min hike alng rvr to MIT, safe, quiet, \$350/mo+ utils for sgl BR, poss redctn in exchng for engneerng tutrng. Call x3-1631.

non-smkr to shr 4BR Victrn on Arlington-Medford line, 2 lvls, www carptng, mod ktchn, 1½ bth, mins frm T & majr cities, lrg fnod-in yrd, prkg for 1 car in drvway, \$200/mo inc ht & h.w. Bev, x3-7066 or 646-5168 after 5pm.

Carpool

Rd nded, Linc Lab-Belmont (nr Cushing Sq), will pay. Fran, x7925 Linc 8:30-5 or 484-7687 eves.

Miscellaneous

Typng on wrd pressr, all knds inc to fst, accurt, rsnbl rates. Lynne, x3-4012.

Acupuncture stdnt sks someone wellversd in elctrncs to hlp develp & patent machine to sell to distributr of Oriental Med suppls & acupuncture schls, M-F, 9-5. Call x3-4111.

Wrd pressng, rsnbl rates, quick trn-arnd, tech a specity. Gail, x3-4582.

Surplus Property

The Property Office has the following excess MIT equipment for transfer within MIT. Unless noted, items are at the Equip-ment Exchange, 224 Albany St, open Tues & Thurs, 11am-3pm. After 30 days, items are sold to individuals. Where noted, bids and offers go to Tom Donnelly, Property Disposal Officer, E19-429, x3-2779, with envelope so marked. Always reference case number on envelope. MIT reserves the right to reject any and all bids.

Case 1515: Tektronix time mark generator, mdl 180A; Leeds & Northrup universal potentiometer, mdl K3; Digital Dana multiplier, mdl 3800A; Tektronix oscilloscope, mdl 545A; Leeds & Northrup voltage transformer, sola variable

Case 1527: Interdata computer, mdl 71-013, Advanced Electro disk drive, mdl 2500.

Case 1534: Teletype hard copy terminal, mdl ASR33. Case 1536 - To inspect call Ed Cruz, x3-5778: South Bend lathe, mdl A, nds

repairs. Case 1541: Desks, 46x30 tbl.

Case 1542: Miscellaneous chrs.

150-1100K; Sanborn power

150-400; Sanborn chart recorder

Case 1543: Digital terminal keyboards mdl LA36KD; 2 Omitec modems, mdl 503A Case 1549: Sanborn amplifier, mdl supply, mdl

Case 1550: H.P. oscilloscope, mdl 130B; Harrison Lab regulated power supply, mdl 880A.

MIT accounting practices. Knowledge and experience with real estate investment/management accounting and a Bachelor's degree in Accounting or equivalent combination of education and related experience necessary. A86-603

Applications Programmer, Electrical Engineering and Computer Science, to write graphic and computational programs used in teaching two major depart ment undergraduate field theory subjects, "Electromagnetic Fields and Energy" and "Electrodynamics." Will maintain the system of programs, write documentation and provide consulting assistance to students and faculty. All work will be done on a VAX 11.750 systems running UNIX. Experience with some or all of the following preferred, computer graphic systems; symbolic manipulation systems, Berkeley UNIX and numerical field com-

Operations Manager, Housing, to develop and implement training programs for the Housing Department. Will direct Managers in maintaining a high level of housekeeping standards, student rela tions, safety, operations, personnel and budget control. Will submit periodic status reports in financial, personnel and operational areas. Works with General Manager, Food Service on matters relating to housekeeping and maintenance of dining facilities; coordinates budget timely budget submission; works with Maintenance Manager and House Man-agers to plan, communicate, implement and complete building maintenance programs according to schedule. Coordinates hiring of House Managers, Evening Manager and hourly personnel. Conducts periodic Managers'meetings and acts as the Department Safety Officer, coordinating fire drills and evacuation procedures. Additional duties will include the coordination of summer housing and special event programs with managers and departments concerned, reviewing monthly operating statements; maintaining furniture inventory and storage cilities for Departments and assisting in the selection and purchasing of fur nishings by dormitory personnel; also co-ordinates state and local building inspections and makes necessary corrections. A85-601

Auditor I. Audit Division, to perform assigned audit tasks, assist in the review of established policies and procedures, Case 1551; Interdata processor, mdl 71-013; Advanced Electro disk drive, mdl

Case 1555: Houston Inst X-Y recorder mdl HR-95; Bausch & Lomb Jefferson transformer; International Equipment clinical centrifuge; Coleman Instruments jr. spectrophometer, mdl 6A; Spencer Lens Co. transformer, mdl 393; H.P. oscilloscope: Ernst-Leitz transformer 120/220V; H.P. power supply; American Optical transformer, mdl 395.

Case 1553 - To inspect call Bob Quinn, x3-7732: Jarrel Ash 3.5 meter spec tograph, mdl JA-70-000

Case T-300 301 302 303 304 305 306 307: 8 IBM Selectric-I typewriters.

Case T-312: IBM Selectric-I typewriter.

Case T-313: IBM Selectric-II typewriter. Case T-314: IBM Selectric-II self-

correcting typewriter Case T-315: IBM Executive typewriter.

Case T-316: IBM Selectric-I typewriter.

Case T-317, 318, 321: 3 IBM Selectric-I Case 1562 - Transfer of funds required

To inspect call Wanda Osborn, x3-8959: Epson printer, mdl MX-80IOII F/T, gd cond. Case 1563 - Transfer of funds required

To inspect call Astrid Hiemer, x3-4415: 2 Panasonic 3/4" video decks, mdls NV9200 & NV9200A. Case 1386 - For sale by sealed bid. Bids to be received by 4pm EDT, 9/12/85. To inspect call Ron MacNeil, x3-4416, 1-5pm:

Agfa Gevaert vertical copy camera, mdl

RPS-2024; Linotype-Paul printing laser scanner, mdl 3040. Case 1537 - For sale by sealed bid. Bids to be received by 4pm EDT, 9/12/85. To inspect call Sharon Feldstein, x3-7762: Digital word processing system, mdl WD82B-AK, complete with two VT-100 terminals & Diablo daisy wheel printer,

Case 1477 - For sale by sealed bid. Bids to be received by 4pm, EDT, 9/12/85. To inspect call Tom Donnelly, x3-2776: Modcomp computer, mdl II220, w/floating point processor, 2 disks, 75 IPS mag tape, 2 serial interfaces, 32K core + 16K, real core memory & Versatec printer.

mdl 1345A.

Case 1424 - For sale by sealed bid. Bids to be received by 4pm, EDT, 9/5/85. To inspect call Ward DeHaro, x3-6403/6419: Hitachi electron microscope, mdl HU11A, approx 200,000 MAG, w/power supply, 2 pumps, high tension tank & control unit.

Case 1495 - For sale by sealed bid. Bids

to be received by 4pm, EDT, 9/5/85. To inspect call Tom Donnelly, x3-2776: Extel hard copy printer, mdl B318PSC. Case 1490 - For sale by sealed bid. Bids to be received by 4pm, EDT, 9/5/85. To inspect call Tom Donnelly, x3-2776: Honeywell tape drive, mdl 7610; Analog

magnetic tape recorder/reproducer, 7-spds, 1 7/8-120IPS, 1-direct channel, 4 medium band FM channels. Case 1546 - For sale by sealed bid. Bids to be received by 4pm, EDT, 9/12/85. To inspect call Ron MacNeil, x3-4416, 1-5pm: Omnitech linotype typesetter, mdl 2000, includes monitor, CPU & disk drive; California type case w/type, some full sets, some partial sets.

capabilities desired. Accreditation as a CPA, CIA, or CISA must be a career goal.

A85-600

Safety Assistant, Safety Office, to review, inspect, evaluate and make appro-priate recommendations and reports on safety status of property, work tasks, ex-periments and projects. Will inspect departmental areas and building facilities to detect violations of Institute and governmental safety standards; assist in investigation of major accidents and complete required reports; advise departmen-tal safety coordinators on correction of safety violations; assist in the review and evaluation of chemical, biological and electrical experiments to assure safety; assist in researching the use of new pro ducts and the application to the Institute's needs, will also advise faculty, staff and students on safety matters. Bachelor's degree in Industrial Safety or Occups tional Health is preferred, a technical degree or equivalent combination of education and experience is necessary. Reasonable experience in industrial, insurance, university or hospital safety or equivalent work experience in a technical field desirable. Some knowledge of state and federal safety laws necessary A85-594

Area Food Service Supervisor, Food Service, to assist in the coordination and supervision of food production area in acform daily inventories, assist with catered functions: maintain flow of needed sup plies during meal periods; check food storage areas to be certain they have been cleaned and secured; provide backup for other supervisors in their absence. An Associate's degree in the Food Service field or the equivalent combination of education and experience is necessary. Demonstrated skills in food preparation, technical knowledge in menu planning and quality control required. Must be able to work irregular hours and weekends A85-592 Food Production Supervisor, Food Ser-

vice, to plan and assign daily work sched ules for supervisors and all employees in the Food Production Unit. Will order sur plies for unit, maintain daily, weekly and/or monthly records of price quota tions, estimates and orders; maintain por-tion control costs; supervise receiving area, and control sanitary conditions. Will also be responsible for the appearance, taste and presentation of all food items and assist in the recipe and product evaluations. Will train employees and perform additional duties as necessary. A degree or experience in the Food Produ tion area of Food Service and some dietitian experience preferred. Must have knowledge of menu planning, quantity food production and quality control A85-591

This list includes all new, nonacademic 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 Assistants (10-215,

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

should call the Personnel Office on extension 3-4251. Employees at the Institute should con-

tinue to contact their Personnel Of-

3-1594 Oveta Perry Dick Higham 3-4278 Virginia Bishop Appointments: Therese McConnell 3-4274 Ken Hewitt Kenneth W. Chin 3-4267

Sally Hansen

Kim Bonfiglioli 3-4076 Appointments: Nancy McSweeney Administrative and

Sr. Staff Accountant, Treasurer's Office, to develop systems and maintain all investment real estate accounting records prepare monthly, quarterly and annual investment real estate financial reports; rocess rent checks and invoices related to operation of investment properties Will work in conjunction with accepted

Academic Staff

POSITIONS AVAILABLE

It is Institute policy not to discriminate against individuals on the basis of race, color, sex, sexual orientation, religion, handicap, age, or national or ethnic origin in the administration of its programs and activities.

10-211) and in the Personnel Office

s who are NOT MIT employees

ficers to apply for positions for which they feel they qualify.

Darlene McGurl

3-4275

3-4268

putations. A85-602

data developed in other departments within the Institute and discussions with department heads, faculty and staff on audit procedures. Will participate in the review of systems and procedures and make recommendations as well as supervise clerical support staff. A Bachelor's degree in Business Administration with Accounting or equivalent combination of education and experience required. One to three years of experience with a certified public accounting firm or internal audit-ing experience is necessary. Some knowledge of systems analysis and computer

Network Manager, Telecommunications Systems, to develop and maintain software related to the operation of the 888 Campus Computer Network. Working knowledge of the C programming language helpful, familiarity with the UNIX operating system and some knowledge of Ethernet desirable. Will also assist the Manager of the Campus Computer Network in the design and implementation of extensions to the Computer Network Bachelor's degree in Electrical Engineering or Computer Science preferred. At least one year of experience with Local Area Networks required and working knowledge of the Department of Defense Standard Internet Protocol helpful. A85-589

Sr. Applications Programmer, Project Athena, to assist MIT Faculty members working on educational software design and implementation. Will implement applications programs, standards, and libraries and maintain contact betw faculty and other Athena staff. V evaluate, select, test and specify training requirements for applications packages obtained from vendors or other computing facilities. Will provide technical staff with assistance in identifying and resolving difficult technical problems. Will provide technical leadership, training, and functional supervision for lower level programmers; prepare reports and recommendations for long-term strategies in specific technical or organizational areas. May serve as MIT representative at conferences and may attend seminars, con-ferences, and classes as workshop member, panel member, author or instructor. Good interpersonal and written communication skills essential. One or more years experience with at least two of the following: UNIX (4.2bsd preferred), C, FORTRAN-77, LISP, Interactive computer graphics. Bachelor's degree or equivalent combination of education and experience is necessary. Three or more years professional experience with computer programming in a scientific environment necessary. Additional experience outside outer sciences preferred. NON-**SMOKING OFFICE A85-587**

Sr. Dental Hygienist, Medical, to perform hygienist duties for the Chief of Dental Service. Primary responsibilities will include initial comprehensive examination and charting, prophylaxis, periodontal treatment, plaque control, taking and processing dental x-rays, screening dental emergencies and conducting patient education programs. May be called upon to do occasional assisting. Will help with some administrative duties such as coordination and direction of technical staff. Must be a registered Dental Hygiene preferred. Previous experience desirable with some experience in periodontal care. Excellent interpersonal skills essential in working with patients and staff. C85-158

Patient Care Coordinator-Inpatient Unit, Medical, to manage the 18-bed inpatient unit with supervision and scheduling of 10 staff members; teaching; patient assignments; familiarity with a wide range of medical-surgical problems; and supervision of minor procedures and committee work. Must be Massachusetts Registered Nurse with at least 5 years experience and some experience in a leadership role. A Baccalaureate degree with nursing management training is preferred. Normal work schedule is Monday through Friday, days with flexibility to cover as needed. C85:157

Associate Director of Admissions, Admissions Office, to coordinate the recruitment and admission of minority students. Will participate in recruitment, developing admissions policies and strategies, counseling, evaluation, and decision process for freshman applicants. Travel both fall and spring to hold open houses, and meet with alumni, especially MIT Educational Council members. Assist with special conferences and programs, provide input with marketing efforts, design publications, forms and application. Excellent interpersonal skills both oral and written required. Bachelor's degree or Master's degree essential, some knowledge of data processing helpful. Experience with college admissions or counseling and two years in minority student recruitment desired. A85-559

Manager of System Development, Project Athena, to manage MIT staff of five professional programmers and coordinate task assignments among ten other professional programmers provided by industry cosponsors. Will involve undergraduate student programmers, help lead development of an advanced, UNIX-based pro gramming environment in support of educational computing using work stations, local area networks, and centralized service computers. Work with an ongoing deployment organization that is expandof several the stalled work stations. Assist development requirements and control release software to ensure effective deployment. Interact with other MIT offices in planning and integration of Project Athena with other MIT activities. May serve as MIT representative with other educational institutions pursuing similar goals. Opportunity to author or coauthor professional papers. Requires knowledge of advanced system design ideas; good management and liaison skills; interest in educational impact of computing; and SB in appropriate field required. A85-518

Sponsored Research Staff

Research Scientist, Laboratory for Electromagnetic and Electronic Systems, to be responsible for the setting up of instrumentation of single cell electrical recording and for real-time video microfluorimetry. Will act as an Investigator in the performance and direction of experiments related to the use of these techniques in sterile cell culture preparations. Will act as Assistant Director of the Cell Culture Laboratory within the Continuum Electromechanics Group. Will assist in the direction and supervision of research related to the study of electrical fields on living cells. May co-supervise theses. May supervise and assist in the teaching of the undergraduate Quantita-

tive Physiology Laboratory of the Department of Electrical Engineering. PhD or equivalent degree in a quantitative physiology or biophysical science and some experience in intracellular bioelectrical measurements required. Good interpersonal skills and an interest in teaching students preferred. R85-796

Research Engineer, Civil Engineering, to participate in a six-year field study of groundwater contamination transport. Will be responsible for development, testing, and field application of instrumentation; development of computer-based data management systems, statistical analysis of data, coordination of field activities, and preparation of technical reports. Position requires a MS degree in groundwater hydrology with academic background and experience with instrumentation and computer programming. Some experience with hydrologic field investigations is desired. R85.705.

Mechanical Engineer, Plasma Fusion Center (part-time, temporary), to assist in interfacing design and construction of heavy ion beam probe diagnostic for measuring spatially resolved plasma potentials in the central cell of the TARA tandem mirror. Will be involved in design/construction and calibration of analyzing grid structures, and in design and construction of the three auxiliary vacuum systems for the HIBP. The engineer will assist in taking data. A Bachelor's degree in Engineering and several years experience with design, construction, and testing of ion beam, neutral beam, and vacuum systems and some familiarity with magnetic alignment preferred. (10-20 hours/week) R85-794

Technical Assistant, Laboratory for Electromagnetic and Electronic Systems, to be responsible for biochemical measurements in a connective tissue research laboratory. Must have a BS in a biological/chemical science and preferably at least one years experience performing general biochemical assays including gel electrophoresis; cell culture experience also useful. Ability to work with graduate students, undergraduate students and faculty as well as punctuality essential. R85-793

Staff Accountant, Laboratory for Nuclear Science, to participate in the preparations of monthly financial reports, budget proposal submissions and cost and price analyses using the VAX 11/780 under the direction of the Laboratory's Fiscal Officer. Will also become involved in monitoring and reconciling monthly research expenditures in excess of \$20 million/year. Will also be required to initiate and carry out special projects and reports, as necessary, to internal and external agencies. May exercise functional supervision over Support Staff personnel. Bachelor's degree in accounting or related field and one to three years of directly related experience or an equivalent combination of education and experience required. Good interpersonal skills and the ability to work independently essential. Familiarity with VAX and/or personal computers highly desirable. MIT experience preferred. R85-784

Sponsored Research Staff-Technical, Laboratory for Nuclear Science, is seek-ing an individual with technical expertise and extensive experience in high energy experimental physics instrumentation Knowledge of on-line computer, fast elec tronics, scintillators, proportional chambers, and drift chambers necessary Ability to work within a large, interna tional group of physicists, technical staff, and technicians desirable. Primary work location will be CERN in Geneva, Switz erland; however, individual must be willing to travel on very short notice to the United States and other locations as required. BS in physics, or the equivalent and a minimum of 10 years experience in developing and setting up of instrumenta tion for high energy experiments required. Fluency in French and/or German is required due to work location. Please submit a list of publications and refer when applying with resume R85-782

Technical Assistant, Chemistry, to operate computer-controlled nuclear magnetic resonance spectrometers, infrared spectrometers and various other instruments. Will also be responsible for the ordering of expendables for the instruments, preparation of monthly billing statements and routine upkeep of the instruments. Good interpersonal skills preferred. Will report to the Operations Manager of the Spectrometry Lab. BS in Chemistry or equivalent direct/related experience required. R85-781

Technical Assistant, Center for Cancer Research, to perform laboratory research including molecular and cellular analysis on mammalian genes. Responsibilities include the care of tissue culture in adhesive as well as suspended cells, such as lymphocytes. Additional duties include work on various types of biochemical preparation and analysis of nucleic acids and proteins, including cloning of mammalian genes by recombinant DNA technique. Will handle mice for injection of cells and chemicals and for preparation of antisera. BS degree and a minimum of 2-3 years direct/related experience required. Experience in tissue culture essential. R85-780

Technical Assistant, Center for Cancer Research, to perform laboratory research on all aspects of recombinant DNA and genetic engineering. Duties will include the preparation of DNA and RNA from culture cells, organs, embryos and tumors; preparation of plasmids and phage DNA, isolation of specific probes and screening of phage and plasmid libraries using plaque and colony hybridization. Additional duties include isolation, analysis and construction of recombinant clones; DNA sequencing by Maxam-Gilbert technique and other related techniques such as various kinds of agarose and acrylamide gel electrophoresis, Southern and Northern hybridization, tissue culture techniques using the passage of cell lines including hybridomas, and preparation of cell cultures from organs; DNA transfection into cultured cells using protoplast fusion echniques. BS in Biology or equivalent degree and a minimum of 3 years direct/related experience required. R85-779

Shift Supervisor, Nuclear Reactor Laboratory, to supervise the reactor operation on a rotating shift, including start-up, and shutdown. Duties will include the installation, maintenance, and refueling of the reactor and additional responsibilities as necessary. A working knowledge of reactor physics/engineering as well as the ability to learn reactor computer codes required. Reactor experience preferred. The ability to adhere to radiation protection guidelines and safety procedures essential. A Master's or Bachelor's degree in Nuclear Engineering or equivalent required. Must qualify for a USNRC senior operator's license. R85-777

Research Staff, Francis Bitter National Magnet Laboratory, to develop a research program involving a unique high magnetic field and/or low temperature facility for use in his or her own research and the user community. Desirable research areas include lower dimensional systems, localization, very high field superconductivity, and novel materials such as heavy fermions, and organic metals. PhD in Physics with a background in solid state and low temperature physics required. Some postdoctoral experience preferred. R85-776

Technical Assistant-PC Coordinator, Media Laboratory, to install and maintain several types of PC's (Wang, DEC, and IBM) in the Media Laboratory. Responsibilities include organizing PC maintenance records; instructing on the use and operation of PC's; troubleshooting reported problems; identifying malfunc tioning assemblies and boards for return to vendors; selecting and ordering maintenance supplies; supervising student sup-port staff and assisting in the overall operation of the system. Will work closely with technical staff in providing main tenance procedures and solutions to systems problems. Some knowledge of networking and telecommunications re quired. Good organizational skills and administrative and technical expertise essential. BS in Electrical Engineering or Computer Science, with 3-5 years hard-ware and/or software experience in PC's and integrated systems operations required. R85-761

Library Support

Library Assistant III. The Libraries (temporary position through 6/30/85), to act as the Binding and Repair Assistant and process new materials and repair older materials. The two primary commaterials and repair ponents will be to prepare journals, monographs, rebinds, and theses for ship-ment; and repair library materials including typing call numbers, correcting lettering, mending paper, tipping in of pages, indexes and tables, cutting and gluing paper, cloth, buckram and boards, stitching book signatures, tightening hinges, rebuking and recasing books, making enclosures and performing other tasks as assigned. High School degree or equivalent is necessary plus minimum 1 year direct related experience. Neat hand-writing, manual dexterity and attention to detail important. Basic typing skills essential. NON-SMOKING OFFICE

Library Assistant IV, Rotch Library, to act as circulation assistant during the evenings and weekends in an 11-month permanent position. Will have primary responsibility for the library during designated evening and weekend shifts and participate in all functions of the cir-culation desk. Duties will include charging and discharging books, searching for missing items, entering bibliographic and patron information in the automated circulation system, and answering questions with the reserve title Will work tifying, retrieving and processing materials. Additional duties include supervising student stacking assistants, planning shifts of materials and ongoing stack maintenance projects, such as shelf reading. Will perform additional duties as necessary. Good interpersonal skills and excellent organizational skills essential. Previous experience with automated library systems highly desirable. Some typing required. Minimum 2.5 years direct related experience where post high school education can count toward experience

Library Assistant III, MIT Libraries, Catalogue Department, to input catalogue records on the OCLC terminal from work forms prepared by cataloguer; edits online contributed and Library of Congress catalogue records based on cataloguer's written instructions. Will participate in maintenance of the libraries; database, including holdings and heading changes; type charge cards and book pockets as well as reference authority reference cards and files; perform auxiliary aspects of cataloguing based on cataloguer's written instructions. High School graduate or equivalent and a minimum 1 year direct/related experience required. Accurate typing (40 wpm) and attention to detail essential. Experience using CRT terminal preferred. L85-892, L85-893

Library Assistant III, Rotch Library, to work as circulation assistant in an 11-month permanent position in the public service section of the Rotch Library of Architecture and Planning, Will per form all duties of the circulation desk including charging and discharging books searching for missing items; entering information into the automated circulation system; answering locational and general information questions. Additional duties in the reserves area include identifying, retrieving and processing materials. Will maintain files and stacks and assist student assistants. Good interpersonal and organizational skills essential. Experience with automated library systems desirable. Some typing required. High School graduate or equivalent necessary. Minimum 1 year direct/related experience required. Will work 35 hrs/wk primarily evenings and weekends. L85-868

Library Assistant IV, Dewey Library, to be Circulation Assistant evenings and weekends. Will perform general circulation functions and provide directional and informational assistance to library users. Will be expected to learn and to operate the GEAC automated circulation system, and assist in training student circulation staff in its use. May occasionally assist with circulation stacking or reserves processing during peak hours. Minimum 2.5 years direct/related experience required. Good interpersonal skills essential. Hours will include Saturday 11am-6pm, Sunday 2pm-11pm, Monday-Wednesday, 3pm

11pm; this schedule subject to change during the summer months. L85-859

Library Assistant IV, Dewey Library, to provide technical and public services for the Industrial Relations Collection. Duties include providing information and reference assistance to collection users; processing bibliographic records; preparing orders for new materials; doing online searches; indexing selected journal articles; preparing a bimonthly bulletin to be distributed, as well as additional library duties. Occasional evening and weekend work may be needed. Minimum of 2.5 years direct/related experience required. Good interpersonal skills and organizational skills essential. Must be able to type well and become proficient with an IBM PC word processor. L85-836

Secretary/Staff Assistant

Administrative Secretary, Alumni Association, to work for the Director of the MIT Alumni Fund. Will perform secretarial duties and other activities in support of several Alumni Fund programs. Will arrange luncheon and committee meetings, aid other staff members in implementation of telethon programs and assist in research projects related to Fund programs. Good interpersonal and organizational skills required. Must have excellent typing and dictaphone skills. Some overtime may be required. Knowledge of and/or willingness to learn word processing necessary. Minimum 4.5 years direct/related experience required. NON-SMOKING OFFICE B85-894

Administrative Secretary, Office of the Dean for Student Affairs, to maintain all records, statistics on end-of-term grade results, and recruitment data, and corre spondence associated with the freshman and undesignated sophomore advisory programs. Will work closely with Ex cutive Officer and student staff in co dinating summer preparations for incom-ing classes. Additional duties will include monitoring budgets, financial disburse-ments, and transfer and special student programs. Will also assist with editing and proofreading of "The Freshman Handbook." Good interpersonal and typing skills required. Knowledge of and/or willingness to learn word processing nec essary. Familiarity with MIT desirable Minimum 4.5 years direct/related experi ence required. B85-891

Administrative Secretary, Chemical Engineering Department, to perform sec retarial duties for the Executive and Undergraduate Officers. Will type Executive Officers'research papers, proposals, and routine correspondence and answer a variety of requests, surveys, forms, and questionnaires. Additional duties include compiling and editing an nual reports, maintaining office accounts, and serving as class schedules coordinator for department. Will compile and maintain departmental statistics on under graduate population for the Under graduate Officer, as well as organize Open Houses and coordinate undergrad-uate registrations. Must have strong organizational skills, ability to set priorities and to anticipate and follow through inde-pendently on office business. Knowledge of and/or willingness to learn Decmate II word processor necessary. Familiarity with MIT desirable. 4.5 years direct/ related experience required. B85-890

Sr. Secretary-Technical, Chemistry, to perform secretarial duties for three Chemistry professors. Will type correspondence, technical manuscripts, grant proposals and course materials. Will arrange appointments and make travel arrangements, as well as monitor accounting and purchasing records for three research groups. Good organizational and interpersonal skills required. Familiarity with and/or willingness to learn word processing and strong technical typing skills essential. An ability to handle accounting and purchasing functions desirable. Minimum 2.5 years direct/related experience required. B85-911

Sr. Secretary-Technical, Chemistry, to perform varied secretarial duties for one chemistry faculty member who is also an editor of a journal. Duties will include typing correspondence, technical manuscripts, and grant proposals; answering telephones; maintaining files; making travel arrangements, and monitoring research accounts. Good interpersonal and organizational skills essential. Familiarity with and/or willingness to learn word processing and strong technical typing skills essential. Minimum 2.5 years direct/related experience required.

Sr. Staff Assistant, The Libraries-Administration, to issue Library Privilege Cards to outside users and maintain financial records and statistics and provide information and explanation of library card regulations. Will answer telephones and receive visitors; sort and distribute mail; handle mailings; and maintain office supplies. Additional duties include typing and proofreading correspondence from rough drafts, maintaining office files and calendars as well as conference room schedules. Will be responsible for advertising, distribution, statistics, and financial records for MIT Libraries serials list. May perform additional duties as necessary. High School graduate or equivalent and 2.5 years direct/related experience required. Must type 55 wpm; accuracy important. Good interpersonal skills and attention to detail essential. B85-906

Sr. Secretary, Sloan School of Management, to perform secretarial duties for three faculty members in the Behavioral and Policy Sciences Area. Will type correspondence, class materials and manuscripts; answer phones; deal with routine inquiries; prepare requisitions and vouchers. Will schedule appointments, make travel arrangements and maintain files and records. Good typing skills and dictaphone experience necessary. Knowledge of and/or willingness to learn Wang word processing and personal computer desirable. Familiarity with MIT procedures helpful. Good interpersonal skills and organizational skills essential. Minimum 2.5 years direct/related experience required. NON-SMOKING OFFICE B85-905

Sr. Secretary, Laboratory for Nuclear Science, to provide secretarial support for approximately 15 scientists in the Center

for Theoretical Physics. Will prepare referee reports, correspondence and will type technical manuscripts with equations. Additional duties will include arranging travel plans and maintaining computerized mailing list and accounts. Good organizational and prioritizing skills desirable. Excellent secretarial and dictaphone skills required. Willingness to learn TeX and Mass 11 word processing on a Vax Computer desirable. Minimum 2.5 years direct/related experience required. B85-897

Sr. Secretary, Laboratory for Computer Science, to provide general secretarial support for two faculty within LCS, Theory of Computation Group, a large interactive research community. Will manage the preparation of class notes, reports, research proposals and technical memos; maintain files and data bases of the research group; use computer-based support including text editor, formatters, and file systems as appropriate. Additional duties include handling correspondence, telephones and travel arrangements. Interest in learning computer based textediting, good technical typing skills, and excellent interpersonal skills essential. Minimum 2.5 years direct/related experience required. NON-SMOKING OFFICE B85-887

Sr. Staff Assistant, Laboratory of Architecture and Planning, Aga Khan Program, to perform complex secretarial duties for several faculty members. Will assist students and visitors (majority from other countries), and organize details for lectures, courses and seminars. Good typing and word processing essential. Ability to work under pressure in a group or alone and handle complex instructions essential. Minimum 2.5 years direct/related experience required. MIT experience preferred. 885-883

Sr. Secretary, Earth, Atmospheric, and Planetary Sciences (part-time), to work for professor in the Center for Meteorology and Physical Oceanography. Will work closely with associated research staff and part-time Administrative Assistant. Will be responsible for typing all of research reports, proposals, journal articles, and correspondence. Standard duties will include office coverage: phones, mail, copying and filing. Excellent typing and editing skills essential. Familiarity with, and/or willingness to learn word processing necessary. Minimum 2.5 years direct/related experience required. Will work 17.5 to 20 hours/week. Would prefer a non-smoker but should be smoke tolerant. B85-876

Sr. Secretary, Harvard-MIT Division of Health Sciences and Technology, to perform secretarial duties for the Biomedical Engineering Center for Clinical Instrumentation including the taking and transcribing of dictation involving complex technical terminology; typing letters, technical manuscripts, tables and charts. Will answer phones and make appointments, maintain budget and expenditure records, and verify information on monthly financial statements. Will assume responsibility for many office functions such as petty cash control, mail distribution, organization and maintenance of files. Good interpersonal and organizational skills essential. Accuracy and dependability needed in this busy office. Secretarial school or college training with at least 2,5 years direct/related experience required. Familiarity with word processing and/or willingness to learn essential. Good arithmetic and communication skills necessary. NON-SMOKING OFFICE B85-867

Sr. Secretary, Biology (part-time), to type manuscripts, research grant applications, and research reports. Will maintain office files, make travel arrangements, assist in arranging meetings, monitor lab purchases and research grant accounts, and petty cash. Additional duties include general office work for 12 members of the lab and preparation of class outlines, exams and files for advisees. Knowledge of MIT, experience in bookkeeping and a good command of the English language essential. Shorthand helpful but not required. Familiarity with and/or willingness to learn word processing preferred. Minimum 2.5 years direct/related experience required. Will work 20-25 hrs/week. B85-865

Sr. Secretary, Center for Information Systems Research, to provide secretarial support to two CISR research associates and handle the CISR Working Paper Will type correspondence and Series. reports from rough draft or dictaphone, answer phones; make travel arrange ments; prepare high-quality presentation materials, process working paper orders and payments; track subscriptions, and maintain inventory of papers. Excellent secretarial skills required. Familiarity with and/or willingness to learn word processing on the Wang word processor and interpersonal skills required to work with managers from the private sector, faculty, and students. Minimum 2.5 years direct/ related experience required. NON-SMOKING OFFICE B85-862

Sr. Secretary, Industrial Liaison Program, to perform various secretarial duties for two Liaison Officers. Duties will include the composition and typing of correspondence, reports, travel agendas; preparation of annual company activity nmaries, scheduling appointments be tween company representatives and MIT faculty and staff, arranging for company research briefings including room scheduling, catering and audiovisual equip ment, maintaining files, answering phones and answering questions pertaining to member companies of the program Must have excellent secretarial skills and strong interpersonal skills. Familiarity with MIT helpful. Knowledge of and/or willingness to learn word processing on DEC computer essential. Some transcription from tapes will be necessary Minimum 2.5 years direct/related experience required. B85-860

Sr. Secretary, Center for Cancer Research, to type letters and manuscripts; prepare purchase requisitions; make travel reservations; maintain appointment calendar; file; answer phones; and maintain publications list and professor's library for two professors. Must be fast accurate typist with good spelling ability. Knowledge of and/or willingness to learn word processing necessary. Will work from handwritten drafts. Good organizational skills essential. Minimum 2.5 years

direct/related experience required

Sr. Secretary, Harvard-MIT Division of Health Sciences and Technology, to perform diverse secretarial duties in the Administrative Office of Interinstitutional Division. Will type and edit correspondence; compose routine correspondence; edit, type and proofread technical and nontechnical proposals and reports; answer phones; organize meetings; file and maintain administrative records and aid in budget preparation. Will keep related statistics; conduct library research; transcribe from dictation and assist with special projects as necessary. Good interpersonal and organizational skills essential. Good command of the English language necessary. Minimum 2.5 years direct/related experience required. NON-SMOKING OFFICE B85-852

Sr. Staff Assistant, Admissions Office, to

work in the International Undergraduate section of the Admissions Office. Will handle large volume of application material; including data entry, organization and maintenance of files, correspondence and phone inquiries. Will also organize and maintain growing library of information on international educational systems, and act as reference person. Will be very busy in the spring and fall and assist other areas of admissions in the off season. Excellent organizational skills and willingness to learn about international educational systems preferred. Ability to make independent decisions and to work with people who speak a minimal amount of English essential. Knowledge of one or more foreign languages desired but not required. Excellent typing and a minimum of 2.5 years direct/related experience required. B85-850

Sr. Medical Secretary, Psychiatric Services, to perform detailed confidential secretarial duties including making appointments both in person and via telephone, serving as a liaison with outside hospitals, and typing correspondence. Will also work with clinical sociologist in coordinating Institute activities for members of the international community. Duties will include arranging weekly meetings, preparing and distributing notices, and assisting with volunteer activities. Good interpersonal and organizational skills essential. Minimum 2.5 years direct related experience required. B85-849

Sr. Secretary, Applied Biological Sciences, to provide secretarial and clerical support for Laboratory Director's office. Duties will include typing of manuscripts and correspondence, maintaining requisitions and journal logs, ordering supplies and performing related general office work. Applicant should have good typing and shorthand (or speedwriting) skills. Familiarity with and/or willingness to learn word processing desirable (Mass-11, a VAX 11/780 based package, available). Business school or college graduate preferred; 2.5 years of direct/related experience required. Flexibility and ability to interact with a large number of independent and diverse investigators important. B85-848

Sr. Secretary, Whitaker College of Health Sciences, Technology and Management (part time 21 hours/wk flexible), to work with Professor of Nuclear Engineering with a joint appointment in the Whitaker College and a part-time Visiting Scientist. Will work on matters related to the Radiological Sciences Graduate Training Program and an evolving program in biological and medical imaging. Duties will include typing, word processing, preparation of routine Institute forms, keeping track of purchasing requisitions, answering phones and reception. A minimum of 2.5 years direct/related office experience necessary. Typing 55-60 wpm. Familiarity with and/or willingness to learn DEC word processing, technical typing (Greek symbol) and dictaphone experience strongly preferred. Good organizational skills essential. B85-847

Sr. Secretary, Center for Transportation Studies, to provide secretarial assistance to the Director. Will be responsible for arranging meetings, schedules, complex travel itineraries, overseeing conferences and forums. Will coordinate MST program (MS program in Transportation Studies), reply to correspondence and be responsible for payment of invoices; will perform additional routine duties as needed. Good interpersonal skills and organizational skills essential. Excellent typing skills required. Familiarity with and/or willingness to learn word processing necessary. Minimum 2.5 years direct/related experience required. B85-841

Sr. Secretary, Industrial Liaison Program, to perform various secretarial duties for two Liaison Officers. Responsibilities include typing of all correspondence; preparing annual company activity summaries, scheduling appointments and meetings between company representatives including room reservations, catering, and audiovisual equipment. Will make travel arrangements, maintain files, and perform additional duties as needed. Excellent organizational and typing skills essential. Shorthand/speed-writing preferred but not necessary. Familiarity with word processing and/or the willingness to learn desirable. Knowledge of MIT helpful. Minimum 2.5 years direct/related experience required. B85-833

Account Representative IV, Operations and Systems, to ensure quality and time liness of production commitments within the operations facility. Will be responsible for preparing input and jobs for process ing; reviewing outputs to ensure that they meet the clients'requirements; meeting with clients to determine production schedules and requirements, receiving job orders, reporting on the status of jobs and resolving problems. Will coordinate and control input and file flow to the comput er, analyze production problems and con fer with appropriate areas, initiate recovery action to complete or rerun jobs and notify client officers. High School education and at least 2.5 years direct related experience required. Some experience in data processing and operations as well as shift leader skills, knowledge of hardware concepts, data processing, operating systems, job control language, production control and analytical ability essary. B85-798

Sr. Secretary, Biology, to work in Biology Headquarters. Will serve as sec-retary to Undergraduate Registration Officer for the Department, will help to register undergraduate students each term and keep undergraduate files and records. Will have full responsibility for weekly colloquia: type and mail notices, make hotel reservations, reimburse speaker expenses, and monitor colloquia account. Will also serve as information source for Department, keep some departmental files and assist department Finance Officer in monitoring certain counts. May also type and Xerox cla handouts and letters and manuscripts for faculty members. Must have excellent or-ganizational and typing skills, as well as strong interpersonal skills. Minimum 2.5 years direct/related experience and familiarity or willingness to learn word processing required. NON-SMOKING OF-FICE B85-617

Sr. Secretary, Physical Plant, to provide secretarial support to several staff members. Excellent secretarial and organizational skills required as well as abili-ty to use word processor. Will maintain various operations records, summaries, and prepared budget reports. Excellent typing and communication skills essen-tial. Experience or willingness to learn to operate Apple II computer necessary. Minimum 2.5 years direct/related experi-ence. B85-465

Sr. Secretary, Libraries - Barker Engineering Library, to provide secretar-ial support for the Head, Engineering Libraries, and Engineering Library Staff. Duties include typing, making photocopies, distributing mail, answering phones, maintaining library files, and arranging meetings. Will order supplies; review monthly financial statements; coordinate student staffing and prepare support and student payroll; responsible for petty cash account; act as liaison bet ween the library and other Institute staff. Accurate typing and attention to detail, as well as good interpersonal skills necessary. Minimum 2.5 years direct/ related experience required. Familiarity and/or willingness to learn word processing desired. NON-SMOKING OFFICE B85-792

Secretary, Office of the Dean for Student Affairs, The Office of Minority Education, to share secretarial duties for a director, an assistant director and office manager; to type correspondence, reports, manu-scripts, proposals; to maintain various files; to sort and distribute large volumes of literature for mailing; to answer tele-phones. Good typing and general secretarial skills necessary; knowledge of IBM-PC and Lotus desirable; and ability to interact with faculty and students essential. Minority and bilingual persons are en-couraged to apply. Minimum 1 year direct related experience required. Will consider a Senior Secretary. B85-889

Secretary/Technical Assistant, Earth, Atmospheric, and Planetary Sciences (part-time), to provide general office support as secretary to one geophysics pro-fessor and his research staff and some graduate students. Responsibilities in-clude typing of correspondence, assisting with travel arrangements, preparation of class handouts, copying, and filing. Will assist with photography of computer output and graphics for lectures and presen-tations and help to develop system to pro-duce management reports and maintain account records and mailing lists. Excellent typing skills including technical typing essential. Familiarity with and/or willingness to learn word processing necessary. Some background in graphics, word processing, and editing preferred but not essential. (20 hours/week) NON-**SMOKING OFFICE B85-884**

Secretary, Aeronautics and Astronautics (part-time), to assist Sr. Secretary in sup-port of 5 faculty members and associated laboratory personnel. Will type correspondence and class notes, copy, answer phones, file and arrange appointments and travel. Minimum 1 year direct/ related experience required. Excellent typing skills as well as the willingness to technical typing. NON-SMOKING

Secretary, Center for International Studies, to type correspondence and short manuscripts; file administrative docu-ments; assist with newsletter typing and mailing; and assist with the organization of seminars and meetings. Familiarity with and/or willingness to learn word pro-cessing on the DECMATE and Wang essential. Minimum typing speed of 50 wpm preferred. Minimum 1 year direct related experience required. NON-SMOKING OFFICE B85-857

Staff Assistant, Physics (tempo rary-part-time), to run Kodak and Ricoh copying machines for the Physics Undergraduate Office during academic year. Responsible for keeping machines operat-ing properly including maintenance calls and ordering supplies. Very busy office during the academic year; will work under time constraints. Some mechanical ability essential. Minimum 1 year direct related experience required. (M-F 9-2)

Secretary, Office of the Dean for Student Affairs (part-time), to assist the deans and perform general secretarial duties in the Student Assistance Services section. Duties will include assisting the chairman, answering telephones and receiving visitors, scheduling appointments and meetings, and maintaining files and records for student folders. Will work with and for support staff as directed. Good interpersonal and typing skills necessary. Knowledge of Institute desirable. Willingness to learn word processing essential. NON-SMOKING OFFICE

Secretary, Center for Transportation Studies, will perform secretarial duties necessary for the operation of the Center. Duties will include typing of all corre spondence from handwritten material and Dictaphone; receiving visitors; sorting Xeroxing; maintaining files and monthly statements; ordering supplies and completing other tasks as needed. Excellent typing and good command of the English language necessary. Familiarity with and/or willingness to learn word pro-cessing desirable. Minimum 1 year direct/related experience required

Secretary, Center for Advanced Engineering Study (part-time), to assist

the Administrative Secretary and perform all secretarial duties including word pro cessing from Dictaphone and rough drafts; answering phones, receiving visitors, maintaining files, ordering supplies; making travel and meeting arrangements. Excellent typing and Dictaphone experience preferred. Good interpersonal skills essential. Familiarity with and/or willingness to learn microcomputer necessary. Minimum 1 year directivation of the property o direct/related experience required.

Secretary, Environmental Medical Service (part-time), located in Middleton, MA -LINAC Radiation Protection Office, to type correspondence and forms, distribute film badges and maintain records; maintain appointment schedule for staff members; and update files on radiation protection activities. Good typing and general secretarial skills essential. Familiarity with and/or willingness to learn word processing and minicomputer operation desirable. Excellent interper sonal skills essential. Minimum 1 year direct/related experience required. 9am-2:15pm M-F B85-828

Secretary, Center for International Studies, to perform clerical duties for a large research group (2-5 people). Will do extensive telephone work and type with data entry. Good interpersonal skills as well as flexibility essential. Familiarity with or willingness to learn word processing (Wang) and 50 wpm typing desired. Minimum 1 year direct/related experience required. B85-822

Staff Assistant, Artificial Intelligen Laboratory, to perform secretarial duties for one full professor, one associate professor, and one assistant professor. Duties will include typing and proofreading materials, word processing, answering telephones, scheduling appointments, making travel arrangements, and order ing supplies. Must be willing to learn complicated computer-based text editing and justification systems in order to work on long-term book preparation projects. Excellent oral and written communication skills necessary. Minimum 1 year direct/related experience required. NON-SMOKING OFFICE B85-789

Technical Support Staff

Microfilmer Trainee II. The Libraries. Microreproduction Laboratory, to perform elementary technical tasks in the produc tion of microforms, under direct supervion, and receive instruction in additional technical disciplines. Will be responsible for meeting production goals, while ob-serving quality standards and helping to maintain equipment. Will work with one or more of the following activities: opera-tion of a planetary microfilm camera in the production of roll film or microfiche, operation of a rotary camera, darkroom work, operation of microfiche step and repeat camera, operation of a microfiche printer/processor, or operation of binding equipment. High School graduate or equivalent is preferred but not essential. Mechanical ability desirable. T85-907

Office Assistant

Sr. Office Assistant, Resource Develop ment/Leadership Gifts, to assist with the computer processing needs of the Leader-ship Gifts Program. Will specifically work on the expansion of MIT's National Resource Program and the maintenance of the Prospect Control System. Will generate screening lists, input data and report generation for both the screening program and Prospect Control. Some clerical duties will be necessary in this position but they will not be the focus of the position. Familiarity with data processing, knowledge of IBM, CMS, NATURAL and ADABAS helpful; word processing experi-ence and/or willingness to learn essential. Good interpersonal skills and command of the English language necessary. Familiarity with MIT desirable. Minimum 2.5 years direct/related experience required. S85-904

Sr. Office Assistant, Resource Develop ment/Leadership Gifts, to assist the computer processing needs of the program. Specific emphasis will be on the expansion of MIT's National Resource Program and the maintenance of the Prospect Control system. Will assist with the generation of screening lists and the input of data and report generation for both. Familiarity with data processing required and knowledge of IBM, CMS and NATURAL and ADABAS helpful. Word processing experience required. Good in-terpersonal and organizational skill essential. Familiarity with MIT helpful. Requires good command of the English language and good secretarial skills. Familiarity with MIT helpful. S85-895

Sr. Office Assistant, Sloan School of rary position-September 15-March 30), to provide staff support during peak season of activity associated with on-campus recruiting by employers. Will assist in organizing company presentations, oversee ing office bulletin boards, maintaining resume book ordering/mailing/billing procedures; processing recruiting company job descriptions, typing and filing correspondence for Placement Director; sisting in maintaining library files, im plementing priority card system used to assign student interviews with employers typing interview schedules and assembl-ing resume packets for recruiters; maintaining recruiting company contact files and answering office telephones. Good or-ganizational skills and attention to detail ential. Typing skills essential, with accuracy more than speed necessary. Familiarity with and/or willingness to learn word processing and personal com-puter desirable. Minimum 2.5 years direct/related experience required. NON-**SMOKING OFFICE S85-886**

Sr. Office Assistant, Treasurer's Office, to process cash gifts using on-line ter-minals. Will type acknowledgment cards and letters for gifts and file correspon-dence on completed gifts and answer phone inquiries. Accuracy with figures and details as well as some experience with keying and terminals preferred. Good interpersonal skills essential Minimum 2.5 years direct/related experience required. S85-885

Computer Operator, Sloan School of Management, to be responsible for

monitoring and maintaining a PRIME 850 and an IBM 4341 minicomputer and their terminals and peripherals, as well as 25 Xerox 8010 workstations and 150 IBM minicomputers in the Sloan School. Duties include starting up the minicom-puters, backing these up to tame, running. puters, backing these up to tape, running first level diagnostics when a system fails, and contacting service representatives when required or preventative mainte-nance as needed. The operator maintains communication links between the systems as well as between other computers on campus. Will stock paper, ribbons, and other supplies for use on the minicomputer peripherals, 35 public micros, and on Xerox print server. During the academic year, will supervise student night operators and instruct them in proper pro cedures to follow in running the equip-ment. Will develop strategies to improve system operations. Experience with computer operations, basic understanding of computer operating systems, and the ability to learn quickly essential. Good in-terpersonal skills necessary. Minimum 2.5 years direct/related experience required. S85-872

Sr. Office Assistant, Artificial Intelligence Laboratory, to perform complex secretarial duties for Director of the Laboratory. Duties include typing and proofreading letters, manuscripts, and reports using computer-based system; editing materials written by Director and other members of the Laboratory; scheduling appointments, meetings, and seminars; making complex travel arrangements; maintaining and originating files and records, and performing addi-tional tasks as assigned. Good organizational skills and attention to detail essential. Must be willing to learn mainframe and personal computer text editing systems. Ability to work in a high pressure office and to deal with eccentric ople essential in this busy office. NON-SMOKING OFFICE S85-871

Sr. Office Assistant, Purchasing and Stores, Office of Laboratory Supplies, to assist the Staff Administrator in the areas of the OLS Personal Computer Sales program. Responsibilities include preparation of purchase orders, placement of orders with vendors, expediting of orders with vendors and OLS Warehouse
Will interface with MIT Microcomputer Center to provide information about orders. May also assist the Staff Ad-ministrator in the areas of OLS marketing, customer service, and order processing. Additional duties include providing secretarial support to the Staff Administrator and Assistant Director of Stores. High School degree or equivalent with some college preferred. Good communication skills both oral and written essential. Minimum 2.5 years direct/ related experience required. 40 wpm typtearn word processing/personal computers essential. S85-870

Sr. Office Assistant, Comptroller's Ac counting Office (part-time), to provide general office support for the Accounting Staff. Duties include maintaining sponsored billing address file; light typing of Government forms, answering phones, and assisting with office coverage and special projects as necessary. Previous word processing experience or willingness to learn for accounting functions necessary. Good organizational and interper-sonal skills essential. Knowledge of bookkeeping helpful. Minimum 2.5 direct/related experience required. (Part time hours M-F 9am-2pm.) S85-858

Sr. Office Assistant, Media Laboratory to provide secretarial support for the Assistant Director for Administration and Finance of the Media Laboratory. Will use the Wang word processor to type cor-respondence; send and receive electronic mail; file and maintain records; answer phones and greet visitors. Will assist with financial recordkeeping using the Wang system Multiplan; and assist in general troubleshooting and key distribution. Minimum 2.5 years direct/related experi ence required. Knowledge of MIT preferred. 55 wpm typing and good proof-reading skills essential. Familiarity with and/or willingness to learn Wang eq ment necessary. Good interpersonal sl essential. 40 hour work week. \$85-845

Editorial Assistant IV, Program in Science, Technology, and Society, to take primary responsibility for all phases of manuscript production for the journal Science, Technology, and Human Values. Will proofread manuscript and galley as well as supervise other pro ofreaders. Maintain records for manuscript and peer review system. Type all editorial correspondence, and correct manuscripts. Assist with general office management, including some accounting and budget management. Some opportunity for writing. Excellent interpersona skills essential. Proofreading and knowl edge of publishing procedures desired. Some training or courses in science preferred. 50 wpm typing necessary. Flexible schedule preferred. Minimum 2.5 years direct/related experience required. S85-838

Sr. Office Assistant, Chemistry, to assist the Financial Administrator in accounting work for the department. Will type correspondnce and forms; file, maintain records, reconcile statements, process travel vouchers, invoices and requisitions for payment; route proposals and other financial documents. Some receptionist necessary. Good typing and familiarity or willingness to learn word essing essential. Minimum 2.5 years

related experience required. S85-807

Assistant Communications Console Operator, Physical Plant, to answer Operations Center telephones used by the MIT Community to report fire, trouble, maintenance requests and other related information. Will monitor the Auto Call Alarm System and operate the facilities Control System to diagnose problems and take corrective action; maintain a daily log of all calls and alarms and indicate what action was taken; dispatch mechanics; operate various pieces of com-munications equipment including paging systems, radio network, telephone, and inrcoms. Will perform other clerical duties including typing, shutdowns, overtime lists, and maintenance of work order system. Must be able to handle emergency situations effectively. Familiarity with mmunications control equipment preferred. Some typing is necessary. Min 1 year direct/related experience required. S85-909

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Annuity interest

The Prudential Insurance Company has set new interest rates for tax deferred annuity fixed accounts, effective July 1 through June 30, 1986. For funds credited before July 1, the annual interest rate will be 11 per cent. For money credited after that date, the rate will be 10 per

3pm daily galleys of repro paper, enveloping jobs, photocopying, and other daily mainte-nance duties. Good, accurate typing skills essential - 55-60wpm, ability to work with detail, and good spelling and gram-mar essential. Will receive on the job keyboard training. Paste up and typeset-ting experience desirable. Minimum 1 year direct/related experience required. NON-SMOKING OFFICE S85-861

Office Assistant, Medical, to work in the Medical Record Service area. Respon ities include filing medical records from telephone requests and written order slips; dispatching records to the proper stations; maintaining patient index file; and doing minor repairs on Telelift system. May be assigned special record projects occasionally. Good interpersonal skills essential, accuracy and the ability to work under pressure desired. Considerable physical strength is required to lift boxes and push heavy carts. Must be willing to stand up all day. Will work one of three shifts: 10:30am-7:00pm, 8:00am-4:30pm, or 8:30am-5:00pm. NON-**SMOKING OFFICE S85-837**

Office Assistant, Telecommunications Systems (part-time), to perform general of-fice work including answering phones, typing, copying, filing, and ordering office supplies. Will process invoices, prepare transfer vouchers and perform other accounting tasks as necessary. Will maintain an inventory of telephones and other communications equipment in stock, sell phones to customers, and order new stock as needed. High School degree or equiva ent required. Minimum 1 year direct/related experience required, 40-50 wpm typing essential. (20 hrs/wk) S85-827

Office Assistant, Office of the Dean for Student Affairs, to provide clerical and secretarial support to the Campus Ac-tivities Advisor. Post room reservation request on Rainbow computer: answer phones and routine scheduling questions; coordinate and schedule the use of Lobby and the Chapel; maintain office sup plies; and perform other duties as assigned. Must have excellent interpersonal skills, accurate typing, and ability to assume responsibility. Previous computer experience a plus. Experience working with college students highly desirable year related experience required. S85-667

Receptionist, Project Athena, to answer telephones and perform clerical duties under general supervision in a busy of-fice. Duties include greeting visitors and clients to department and directing them to the appropriate office. Will provide in formation about the services and general department policies; schedule appointments and monitor cancellations; sort and distribute mail; prepare materials to be mailed; type correspondence and copy. High School degree or equivalent and a minimum 1 year direct/related experience required. Good interpersonal skills essen tial. NON-SMOKING OFFICE S85-810

Output Processing Coordinator, Operations and Systems/Production Services, to see that internal commitments are kept with clients, assemble, review, organize job stream input according to standard procedures, upgrade and correct operational documentation, organize and review finished outputs for completeness and accuracy, analyze production pro blems, initiate recovery action to complete rerun jobs. Training in production control methods, techniques, hardware and operation systems necessary. Three years o data processing experience, two of which must be in operations. Shift leader skills, knowledge of hardware concepts, data processing, operating systems, job control language, production control, and analytical ability preferred. B85-798

Clerk Typist/Receptionist, part-time, Naval Science, to answer ph military correspondence, maintain military files, and act as receptionist. Must be willing to learn military format. Familiarity and/or willingness to learn word processing necessary. Excellent use of the English language, both verbal and written necessary. 65 wpm typing desirable. Minimum 1 year direct/related

experience required. S85-761 Clerical Assistant II. Committee on the Visual Arts (part-time), to perform gallery attendant duties for the new List Visual Arts Center at MIT. Duties include mon itoring the safety of artworks and in-stallations in 3 galleries. Applicant must be reliable, observant and willing to work flexible hours. Interest in contemporary art helpful but not required. Three posions available. S85-877, S85-878, S85-879

Clerical Assistant II. Havstack Obser vatory, to perform clerical duties at Hay stack Observatory. Duties will include answering phones, mail distribution maintaining office supplies, copier main tenance, receiving shipments and maintaining visitors log. Must be able to work independently. High School degree or equivalent and 1 year general office experience preferred. Must type 40wpm. S85-846

Service Staff

Technician B (electronic), Laboratory for Nuclear Science, to assist in laboratory or research work and operate experimental and technical equipment under the supervision of scientific personnel or technicians of a higher grade. Must be able to work for periods of time without supervision. Individual will ser-vice and help coordinate the research experiments at the Bates Linear Accelerator Center. Must be able to work for periods of time without supervision. Applicant must be able to neatly construct circuitry (including solid state components) from schematics or sketches. A familiarity with TTL and CMOS logic is desirable. Must have the ability to use all commonly used hand and shop tools. Flexibility in work

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assignments and the ability to work well with others is important. Graduation from a two-year day technical school or its equivalent in education and experience is the minimum requirement. This position is at the Bates Linear Accelerator Center which is located in Middleton, MA, approximately 25 miles north of the MIT campus. H85-235

sation Office, Rm E19-434, x3-4271, 9am-

Technician B (E-M), Plasma Fusion Center, to assist in laboratory or research work. Will operate experimental and technical equipment under the supervision of scientific personnel or technicians of a higher grade. Must be able to work for periods of time without supervision. This individual will possess a variety of skills necessary for the assembly, testing and installation of sophisticated electrome-chanical apparatus on the TARA experi-ment. The work will be performed under the direction of a staff member or senior level technician; however, the ability to work independently is considered an asset. The work performed will include assembly of intricate electromechanical devices, vacuum preparation and assembly, light machine shop work, low and high voltage circuit assembly and testing. Graduation from a two-year day technical school or its equivalent in ap plicable experience required. Basic machine shop skills, with prototype work in mechanical and electrical assembly preferred. In addition to basic electronic skills for testing, calibration, and trouble shooting of electronic equipment such as power supplies, vacuum gauges, trol circuits, experience and ability with intricate and delicate assemblies desirable. H85-234

Dish Operator, Food Service, to set up dish machine and wash dishes for lunch and dinner meals. Will clean dish room, pantry and dining areas between meals, including sweeping, mopping and cleaning floors, and perform additional duties as necessary. Ability to follow verbal directions essential. H85-231

Cook's Helper, Food Service, to prepare food products as directed for all meal per-iods. Will provide general assistance to kitchen staff and maintain a clean and sanitary work area. Experience in quantity food preparation including computing variations in standard recipes, the funda mentals of grill, saute, roast and steam preparations essential. Must speak English. Will perform additional duties as necessary. H85-230

Counterperson (part-time), Food Service, to portion all necessary food items for the appropriate meal period and dispense food items during meal periods according to department procedures. Will set up and break down assigned work stations and maintain a sanitary work area. Good in-terpersonal skills essential. Ability to read and speak English required. H85-228

Pot Washer, Food Service, to be respon sible for the potwashing area and making sure that all wares are cleaned and sani tized. Additional duties include cleaning and sanitizing all major equipment as well as all floors, walls and refrigeration units; removal of all trash, and daily cleaning of the serving and dining areas. Will perform additional duties as assigned. Must be able to speak and understand English. H85-227 H85-229

Custodian, Haystack Observatory, to perform duties in connection with keeping building clean. These duties include sweeping and dry mopping hallways, washing, waxing, and machine buffing floors; emptying trash receptacles and dumping rubbish into dumpster; washing walls, windows and fixtures. Additional duties include care of lavatory facilities, occasional water pickup resulting from leaks and floods. Will perform related duties as assigned by supervisor. Should be physically able to perform tasks out-lined above. Some experience in custodian work preferred. H85-226

Custodian, Physical Plant, to perform custodial duties on the MIT campus. Must be able to speak, write and understand the English language. H85-223

Technician B (E-M), Plasma Fusion Center, to assist in laboratory or research work and operate experimental and tech-nical equipment under the supervision of scientific personnel or technicians of a higher grade. Must be able to work for periods of time without supervision. Will work in TARA work in TARA vacuum shop assisting in maintaining, fabricating, installing, and modifying parts and equipment for high vacuum system and experimental appar-atus. Position requires good mechanical skills, the ability to read engineering drawings and familiarity with basic machine shop tools and practices and basic electronics. Job will involve me chanical assembly, vacuum system preparation and testing. Graduation from a two-year day technical school or its equivalent in applicable experience is the minimum requirement. H85-217

WRITING AND COMMUNICATION

The MIT Writing and Communication Center has openings for writing tutor(s), part-time, 6-12 hours/wk during the fall emester. Candidate must have at least a BA (MA preferred) and must be a good writer. Must be able to interact easily with others on a one-to-one basis; ability to analyze a piece of writing quickly and to explain concepts necessary. Must have classroom experience teaching writing and/or experience tutoring writers, prefer ably in a writing center environment. Please send resume and short writing sample (2-5 pages) to Steven Strang, 14E-310B, MIT, 77 Massachusetts Ave, Cambridge, MA 02139, Attention: Mr. Charles Fuller.

TIAA/CREF is presently paying 11 ¾ per cent on fixed account contributions credited on or after March 1, 1985. That rate is guaranteed through February 1986. For further information about tax deferred annuities, call or visit the Compen-

cent.

Office Assistant, Registrar, to assist the supervisor of the Registration Section the registration of students. Duties inverification of student status on of registration data for entry into the CRT visual input terminals, and assistance with the Registration Day ac tivities. Good, accurate typing skills, and familiarity with and/or willingness to learn word processing essential. Good in-terpersonal skills and some college expe-rience preferred. Minimum 1 year direct/related experience required

Receptionist, Industrial Liaison Program, to perform general clerical duties which will include answering telephone uiries, greeting visitors, handling Pet ty Cash, ordering supplies, assisting with mailings and maintaining weekly office calendar. Good interpersonal and organi-zational skills essential. Excellent telephone and typing skills required. Minimum of one year direct/related experience mum of one year d required. S85-902

Office Assistant (part-time), Energy Laboratory, to provide clerical support in financial office in the Laboratory. Duties will include processing invoices, prepar-ing vouchers, typing forms and requisitions, and assisting others in maintaining records of accounts. High school graduate with some office experience, accurate typing, facility with figures, and ability to apply general instructions to specific prob-lems. Minimum of one year direct/related experience required. S85-901

Office Assistant, Personnel, to maintain personal computer file, answer telephone requests for employment verification, use Digital word processor and typewriter to prepare letters of notification, and monitor hard-copy records. Will assist with special records projects as assigned, and will aid in salary review processes. Contact with outside agencies and with other Institute offices is frequent. Good office skills and familiarity with word processing and with computer terminals or data entry desirable. High school or its t and at least one years experience. S85-900

Office Assistant (part-time, flexible), Linguistics and Philosophy, to provide general assistance to small but busy of fice. Duties will include maintaining diverse filing systems, general library research and responding to and maintain-ing record of requests for information from a variety of sources. Attention to detail and willingness to work as part of a three-person team essential. Requires good typing skills. Familiarity with and/or willingness to learn word process-ing desirable. Minimum one year direct/related experience required. S85-899

Office Assistant, Comptroller's Accoun ting Office, to process invoices through CRT's. Will do occasional review of ven dor statements, preparation of invoices for CRT operators and other duties as as signed and required by supervisor. Some overtime may be required. Good typing and knowledge of CRT operation helpful. Minimum 1 year direct/related experience required, S85-888

Office Assistant, Laboratory of Architec ture and Planning (part-time), to hold a public contact position for the 4 core administrative staff of the LAP, a research clearinghouse of MIT's School of Architec-ture and Planning. Will be receptionist with responsibility for answering phones, taking accurate messages, and greeting visitors. Additional duties will include distribution of mail, accurate typing proofreading and copying of correspon dence, proposals, and reports taken from rough copy. Will schedule appointments set up meetings and make travel ar rangements. Will maintain office filing system, order supplies, and give general assistance with backup accounting and purchasing transactions. Good typing and interpersonal skills, as well as willingness to learn word processing essential. Ability to set priorities and a minimum 1 year direct related experience required. Will work 20 hours/week, 9am-1pm. S85-882

Utility Worker, Endicott House (located in Dedham, MA), to wash, wax, and polish floors; wash woodwork and windows; set up and break down meeting rooms, including moving furniture and rugs, transport supplies and trash between buildings and to the dumpster; set and h maintenance of swimming pool, snow plowing and minor plumbing, carpentry and electrical repairs; and assist mainte nance supervisor on special projects as needed. Minimum 1 year direct related experience required. Basic knowledge of material and equipment handling, carpentry and painting desired. Experience with use of common hand tools are ence with use of common hand tools pre-ferred. S85-875

Receptionist, The Laboratory of Architecture and Planning, Aga Khan Pro gram for Islamic Architecture, to greet visitors, answer phones, provide informa tion about the program, type and provide general secretarial support. Will make travel arrangements, assist in organizational details for conferences and seminars, operate telex, and assist visitors with parking arrangements, ac nmodations and travel arrangements Requires good interpersonal and communication skills, typing (50 wpm), and organizational skills, as well as the ability to work under pressure. Minimum 1 year direct/related experience required. S85-866

Word Processing Operator, MIT Press, to work in the computergraphics area of the Press. Duties will include use of the on-line keyboard word processor. processing duties will include typing heavily-edited manuscripts containing frontmatter, chapter and part titles, text, extracts, heads, tables, captions, notes and some mathematical expressions. Additional responsibilities may include system maintenance tasks, processing

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Tech Talk, August 28, 1985, Page 7

New department heads

Covert in Aero

(continued from page 1)

engineering departments in the world. The department was formed in 1933 under the chairmanship of the late Dr. Jerome C. Hunsaker. It is now one of the larger departments at MIT with more than 40 faculty members, 300 undergraduate and 200 graduate students and a broad range of research and teaching covering both aeronautics and space.

A native of Rapid City, S.D., Professor Covert received SB (1946) and SM (1947) degrees in aeronautics from the University of Minnesota and the ScD (1958) degree from MIT. After working several years in industry he came to MIT in 1952 as a research engineer. He was appointed associate professor in 1963 and became professor in 1968.

His career in aeronautics began in 1946 at the Pilotless Aircraft Division of the Naval Air Modification Unit at Johnsville, Pa., where he worked on projects that led to the Sparrow missile. At the MIT Naval Supersonic Laboratory, he conducted wind tunnel tests on aircraft models including the McDonnel F-4. His interest in the problems of model support in wind tunnels led him to develop the first magnetic wind tunnel suspension used in the United States and the first practical device of its kind anywhere. More recently he has focused on high-lift and unsteady aerodynamics, founding the MIT Center for Aerodynamic Studies to carry on such work in 1984.

Professor Covert is known as a dedicated teacher who has taught a wide variety of subjects in the department, as well as originating some. Together with Professors Kerrebrock and James W. Mar, he developed the departmental sophomore subject, Unified Engineering. He has won a teaching award from the Graduate Student Council and in 1980 was selected University Educator of the year by the American Society for Aerospace Education.

In 1972-73 Professor Covert served as chief scientist for the US Air Force and in 1978-79 he was technical director of the European Office of Aerospace Research and Development. He is a consultant on the Space Shuttle main engine for the administrator of NASA, and to the National Research Council, Hercules Aerospace, Inc., and Sverdrup Technology, Inc.

Professor Covert is a registered professional engineer in Massachusetts. He is a Fellow of both the American Institute of Aeronautics and Astronautics and the Royal Aeronautical Society and a member of the National Academy of Engineering and the New York Academy of Science. He has received the Air Force's Exceptional Civilian Service Award and NASA's Public Service Award.

Professor Covert lives in Cambridge with his wife, Mary Rutford Covert, a medievalist interested in the history of architecture who specializes in St. Andrew's Priory in Rochester, England. They have four children and four grandchildren.

Fox in Biology

(continued from page 1)

the positions of leadership to which they have been appointed. I look forward with pleasure to working closely with both of them in the future," Professor Brown said.

Dr. Fox, Lester Wolfe Professor of Molecular Biology, succeeds Dr. Brown, who served as department head before his appointment as

Professor Fox is a pioneer in the field of molecular biology. His research interest is in the molecular mechanism of genetic recombination. He was one of the first scientists to realize the advantages of simultaneously marking DNA both physically and genetically to facilitate studies of both structure and function. He also provided the first solid support for the idea that base pairing of the two complementary strands in the DNA double helix ensures fidelity and provides for maintenance of the correct gene order in the process of recombination.

Professor Fox has an active interest in health policy and practice. He is a member of the Institute of Medicine, and has served on the Breast Cancer Task Force Committee of the National Cancer Institute.

Born in New York City, he was educated at the University of Chicago where he received a BS in 1944 and an MS and PhD in 1951. He

also served in the U.S. Army-Air Force from

He was an instructor at the University of Chicago from 1951-1953, and an assistant professor and associate professor at Rocke-feller University from 1953-1962. He joined the MIT faculty in 1962 as an associate professor, became a full professor in 1966 and Lester Wolfe Professor of Molecular Biology in 1979.

Professor Fox has served on numerous faculty committees at MIT. He was also a graduate officer in the department of biology and a member of the MIT Press editorial board.

He is married and has three sons. His wife, Sally, a photo researcher, recently published The Medieval Woman, an Illuminated Book of Days. His sons are Jonathan, an MIT graduate student in political science; Gregory, a Tufts University graduate student in physiology; and Michael, an MIT undergraduate in architecture.

Dr. Hynes, professor of biology and a specialist in fibronectins (proteins involved in cell



adhesion and migration), was a research fellow at the Imperial Cancer Research Fund Laboratories in London from 1971-1974. Hejoined the MIT biology department as an assistant professor in 1975. He was promoted to associate professor in 1978 and full professor in 1983.

Born in Nairobi, Kenya, Professor Hynes was a senior scholar at Cambridge University,

where he received a BA in 1966 and an MA in 1970. He received a PhD in biology from MIT in

He and his wife, Fleur, a first grade teacher in Belmont, have two children, Hugh, 12, and

Marks in Civil

(continued from page 1)

opportunity to learn of the views of many of the faculty with respect to future initiatives and directions. In our discussions he has shared with me his views of that future. I am looking forward to working with David and with the faculty to implement the long-range plans of the department as well as the recommenda-tions of the search committe."

Professor Marks succeeds Professor Joseph M. Sussman, head of the department since 1980, Professor Sussman announced in January that he intended to return to teaching and

Dean Wilson praised Professor Sussman for his leadership and service which, he said, have "created a strong foundation upon which we can continue to plan and build for the

Professor Marks, a native of Liberty, N.Y., received the BS and MS degrees in 1962 and 1964 from Cornell University and the PhD in 1969 from The Johns Hopkins University. He came to MIT in 1969 as an assistant professor of civil engineering in the water resources and hydrodynamics division of the Ralph M. Parsons Laboratory for Water Resources.

In 1972 he was promoted to associate professor and in 1973 he became director of the Civil Engineering Systems Laboratory. In 1975 he was promoted to professor

Professor Marks, in addition to his interest in water resources systems, is interested in solid waste management problems, water quality management, thermal power plant siting and the environmental impact of energy production. He has served on the Massachusetts Energy Facilities Siting Council and the National Academy of Sciences Overview Committee on an Experimental Water Reuse Facility for the Potomac estuary. He has received the Huber Research Prize of the American Society of Civil Engineers.

Professor Marks has led several MIT research efforts in large-scale river basin development in countries such as Argentina, Colombia, Yugoslavia, Greece, Egypt and India. He has worked extensively on new operating rules for the High Aswan Dam in Egypt and the development of the Nile Delta irrigation and drainage systems.

In the infrastructure area he has been working with the US Environmental Protection Agency on the prediction of water distribution pipe failures and strategies for rehabilitation of aging water systems. He leads the department's major interaction in the construction area with the US Army Corps of Engineers.

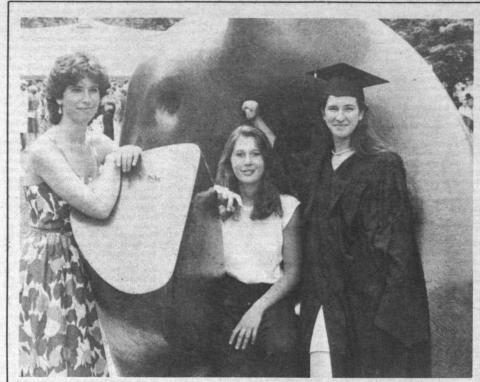
Professor Marks is a member of the American Society of Civil Engineers, the American Water Resources Association, the Operations Research Society of America, the Water Pollution Control Federation, the American Institute for Hydrology and the American Geophysical Union.

He is the coauthor with Professor Richard de Neufville of MIT of the text Systems Planning and Design: Case Studies in Modeling, Optimization and Evaluation (Prentice Hall 1974). He is also the author of more than 80 technical articles and reports.

Professor Marks lives in Wellesley with his wife, Janet Katz Marks, who is interested in crafts, particularly silversmithing, interior design and gardening. They have a nine-yearold daughter, Joanna.

Sung cited for research

Cynthia Sung, graduate student in Medical Engineering-Medical Physics and Chemical Engineering, has received the 1985 Dr. Harold Lamport Award for research on her thesis "An Enzymatic System for the Detoxification of Bilirubin: A Potential Treatment for Neonatal Jaundice." The award, sponsored by the Lamport Foundation and Biomedical Engineering Society, is given annually to an outstanding graduate student or recent doctoral graduate in the field of biomedical engineering.



Commencement was a look back and a look ahead for the granddaughters of French chemist Roger Louvet. Gaetane Francis, right, received her SB degree in biology and will continue for a degree in electrical engineering and computer science in the fall. She was joined by her sister, Sybil, right, who will become a PhD candidate in political science this fall, and their cousin Anne-Claire Louvet who will be a junior in civil engineering. -Photo by Calvin Campbell

Tours: a glimpse of MIT life

MIT was the second college a New Jersey mother and daughter would visit this month. 'We saw Harvard this morning and we'll see BU and BC tomorrow. Then on to Purdue and

California to UCLA and that school in Berkeley, oh yes, USC," the mother said.

But the daughter said, "I don't know if I'll like MIT. But I'll go on this tour anyway.'

Just then guides Ellen Epstein, a senior in Literature and Biology and David Kramer, a sophomore in Earth, Atmospheric and Planetary Sciences, divided the 32-person crowd into two groups, introduced themselves and began the tour. Ellen took the west side of campus and David took the east.

Ellen and David are two of 12 student tour guides who work out of the Information Center office. They conduct the tours at 10am and 2pm, Monday through Friday. Tours average

one hour and 20 minutes.

They generally go "pretty smoothly," Ellen noted, although a few incidents have occurred. The first, when she took a group to Briggs Field, "... ambulances, blood and bodies were everywhere," she remembered. But it was not until someone lying on a stretcher waved that she remembered that this was one of the Medical Department's mock disasters.

Still another time, a sprinkler went off at Killian Court. "I quickly got the group out of there," she said.

"During another tour, this man seemed to ask too many questions that only another tour guide would ask. After I finally asked him what his profession was, he said he was a guide for Harvard. He just wanted to see how other tours were conducted. I bumped into him in Harvard Square one day, and he invited me on

one of his," she said.

Both tours that Ellen and David conducted that day went without incident. David led his group to Killian Court where graduations were staged in the 1920s, and again in recent times, since 1979. He pointed across the Charles River to Boston, where MIT admitted its first class in 1865 with 15 students. He also said that it was George Eastman's (of Eastman Kodak) donation of approximately \$2 million that funded the Institute's new home in Cambridge.

As the tour continued, parents asked about the student/teacher ratio and admission policy. Other questions frequently asked are how difficult is MIT, do teaching assistants teach classes or do professors, and what factors influenced the guides to choose MIT.

Guides are also queried about where they are from. "I have met people who knew my high school principal. It's strange to have people here know where you're from," said David.

Visitors frequently ask Ellen what MIT's male/female ratio is. She tells them that the number of women entrants is growing. "In my class 265 entered, last year, 309 came.

David's group went by the Institute's two major libraries, and later to McDermott Court where they saw MIT-educated architect I.M. Pei's Green Earth Science Center and the Wiesner Building on Ames Street. David showed them where radar was developed; and to the delight of the crowd took them to Professor Harold Edgerton's Stroboscopic Light Display.

The hit of the tour was Bill Parker's Expanded Vision Light Sculptures in the Compton Gallery. "Touch the sculptures and watch them move," he said. As people touched the plasma sculptures, the colored light reacted to their fingers on the bulbs.

This is the most difficult part of the tour, Ellen said. It's tough to get people to leave the gallery and continue on.

Ellen's group went on to the Infinite Corridor, where she noted that it is one of the world's largest infinite corridors. Suddenly she asked the group, "What is the longest?" Someone answered, "The Pentagon."

"People always know that, but what is another large infinite corridor?" The group was stumped. She finally answered, "the Kremlin.

David led his group to the west side of campus and pointed out Kresge Auditorium, the work of noted architect Eero Saarinen. The rumor is that during breakfast one day after Saarinen sculpted a grapefruit so that it could stand on points, he decided the same concept would work for Kresge. "As you can see it still stands," David said.

Next he pointed out another one of Saarinen's

designs, the interdenominational MIT chapel. he also showed the Student Center and dormitories.

At the end, as prospective students and parents were led to admissions, the young woman from New Jersey exclaimed, "Ilove it

"Many people think MIT is a hard, cold place," David said. "I try to tell them that it is not unfriendly or cutthroat and they really try to help you here.'

Food programs

(continued from page 1)
Hunger on the Streets," is based on interviews with more than 150 federal, state and local officials and with officials of community feeding organizations, including community action agencies and foodbanks. He was assisted in the study by a research associate, attorney Marc Thibodeau.

Professor Lipsky pointed out that the same amount of money-\$50 million-had been allowed to offset state and local distribution costs for each of fiscal years 1984 and 1985 as had been allowed for the last five months of fiscal year 1983. [Note: In early August, Congress, in recognition of the funding problems experienced by the states, authorized an additional \$7 million to offset program costs.]

'Problems of program equity are exacerbated when hunger relief is conditional on a state's willingness to approve supplemental appropriations in order to maintain program service levels," he said. His recommended 30 per cent or more increase, he said, "would allow community groups to recover a greater proportion of their program costs."

His other recommendations included:

Revision of the claims reimbursement process-"The current method of reimbursing local groups for program costs in which groups file a detailed bill documenting their expenses should be scrapped in favor of a system which would automatically reimburse groups based on a fixed percentage of the value of the commodities that they hand out.'

Certification of organizations-"Rather than requiring the certification of individual recipients, the program should focus on certifying the distributing organizations themselves.

Technical assistance-"The federal government should set aside funds to promote the development of private feeding organizations in areas where they currently do not exist.'

Bacow wins book prize

Lawrence S. Bacow, associate professor of law and environmental policy at the center for Real Estate Development, and Michael Wheeler of the Lincoln Institute of Land Policy, won first prize (\$4,000) for their book, Environmental Dispute Resolution, at the Center for Public Resources Legal Programs awards ceremonies in New York City. The awards are given to outstanding works in the field of alternative dispute resolution and litigation management.