Massachusetts Institute of Technology

January 15, 1986 Volume 30, Number 18

Early deadline

Because of the first national observance of Dr. Martin Luther King Jr.'s birthday, the Institute will be closed Monday, Jan. 20. That means the deadline for listings in next week's Tech Talk—Notices, Calendar and Ads—has been moved forward to **noon Thursday**, Jan. 16.

Also, Tech Talk will not be published January 29 because of the hiatus between IAP and the beginning of the second term. The Calendar in next week's paper will cover the period from January 22 through February 9. Remember: early deadline.

Wiesner talk

The National Academy of Engineering will present its third Arthur M. Bueche Award to Dr. Jerome B. Wiesner at a luncheon on Tuesday, Jan. 21, in the Bush Room.

Dr. Wiesner will receive the award in a special ceremony during a northeastern regional meeting of NAE members. Members of the faculty and administration will be among the invited guests at the meeting, at which Dr. Wiesner will give a talk.

The Bueche award recognizes achievements in statesmanship and active contributions in the fields of science and technology, public policy and the active inter-relationship of universities, government and the private sector.

Dr. Wiesner, president emeritus and Institute Professor at MIT, is being recognized for his many contributions to reduce the risks of nuclear war through his efforts on the Atmospheric Test Ban Treaty and other arms reduction initiatives, and for high-level leadership in communications systems, as well as federal and academic engineering, science and technology programs.

New T route

The MBTA has inaugurated a new bus route, Route 79, that operates between Alewife Station and Arlington Heights. Passengers of Routes 77 (Arlington Heights-Harvard) and 350 may use the new route as a means of reaching the Red Line. Because of the new route, frequency on Route 77 has been decreased.

The T also announced an additional inbound trip at 3:45pm on Route 350 (Burlington Line to Alewife).

Athena Funds

The next deadline for submission of software and curriculum development proposals to Project Athena is February 1, 1986 for funding to begin in June 1986. Please call Charla Scivally on x3-1300 for copies of the guidelines for proposals explaining the funding process.





IN STITCHES—Richard Gotlib, a senior in biology who wants to make a sweater, is learning knitting stitches in IAP's 383, Knitting Clinic. Another learner is Mary Froelich, a senior in aeronautics and astronautics. The activity was organized by Anne L. Clee, administrative secretary in mathematics. —Photo by Calvin Campbell

Alumnus, project ride Columbia

The space shuttle Columbia, launched Sunday, Jan. 12, carries an MIT alumnus the first Hispanic American to fly in space and an experiment designed by reseachers in the Department of Materials Science and Engineering at MIT.

The alumnus astronaut is Dr. Franklin R. Chang-Diaz, who received the PhD in applied plasma physics from the Department of Nuclear Engineering in 1977, the same year he became an American citizen. Dr. Chang-Diaz is a visiting scientist at the Plasma Fusion Center.

The materials experiment was developed under the direction of Professor Merton C. Flemings, head of the Department of Materials Science and Engineering and Toyota Professor of Materials Processing, and Dr. Yuh Shiohara, research associate in the Materials Processing Center. It involves levitation melting of a nickel alloy and is designed to examine the effect of zero gravity on undercooling and solidification. Graduate students Thomas J. Piccone and Yanzhong Wu and UROP students M. Dean Dellinger and Anthony L. Owens are participating.

The New York Times profiled Dr. Chang in a "man-in-the-news" piece in the January 13 issue under the headline "A Dreamer in Space."

(continued on page 3)

New 'black hole' believed found

A dark, massive object, which occasionally bursts into x-ray brilliance and is bound gravitationally to a faint red star in the Constellation Monoceros, has been identified as a probable black hole. If it is, it would be only the third so far found.

The discovery was announced by Dr. Jeffrey E. McClintock of the Harvard-Smithsonian Center for Astrophysics and the MIT Department of Physics and Dr. Ronald A. Remillard, a research staff member at the MIT Center for Space Research, at a meeting of the American Astronomical Society January 7 in Houston. They said the probable black hole is the

nearest to Earth and the first to be linked with a dwarf star in a binary system. Optical observations of the x-ray nova

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hole with a mass at least three times that of the sun, they said. During outburst, stellar material is drawn from the dwarf companion and falls into the gravitational well of the probable black hole, producing more energy than 10,000 suns, the announcement said.

According to current theories, a black hole is a stellar remnant formed by the explosion of a star many times the size of the sun. When the star's outer lighter elements are blown away into space, the heavier elements in the core collapse upon themselves. If the collapsing mass is greater than the limit that can be supported as a stable neutron star gravity continues to compact the material until not even light can escape its extreme gravitational field.

If the otherwise invisible black hole is part

Twelfth King Celebration to begin at noon

Martin Luther King Jr.'s assassination was a turning point for many, including Dr. Shirley Ann Jackson, a research physicist at Bell Laboratories and the first black woman to receive a PhD at MIT.

Dr. Jackson will be the featured speaker at the Martin Luther King tribute today (Wednesday, Jan. 15) at 12:30pm in Kresge Auditorium.

On April 4, 1968—the day King was slain— Dr. Jackson, then an MIT senior, was visiting the University of Pennsylvania where she had been offered a fellowship for graduate study.

"But when King was killed, this totally threw me off," she remembered. She decided to remain at MIT to work at improving the environment for minorities—particularly blacks.

"Martin Luther King's death triggered guilt at the Institute and in the country," she recalled. "There was a feeling that there should be change. His death pressured many to change," she said. Dr. Jackson and a handful of other black

Dr. Jackson and a handful of other black students—there were about 10 black American undergraduates—got together to work for change. Their chief aims were to increase the number of minorities and to eliminate the isolation many felt.

"A number of students were not friendly," she recalled. She remembered times in the women's cafeteria when people would leave the table once she sat down. Or, if she had a choice seat in the lecture hall no one would sit next to her.

The group, the forerunner to the Black Student Union, met with the administration and presented demands which included increasing the number of black students, faculty and administrators. They negotiated with a task force headed by then-Associate Provost Paul E. Gray.

"Don't think everybody was smiling, eating cheese and drinking wine. There were groups of black students who were scared to be in the process. Students were not militant then but gradually became more so," she said. Change came slowly after several meetings.

Change came slowly after several meetings. The number of minority students grew. "That summer one Native American and

"That summer one Native American and five black students were immediately invited to a summer educational program for minorities called Project Epsilon, now called Project Interphase. That fall, recruiting efforts mainly (continued from page 3)

Sherwood appointed

to state hazing panel MIT Associate Dean Robert A. Sherwood

has been appointed to a six-person committee assembled by the Massachusetts Board of Regents to help implement a new state law making hazing a crime. The law, which went into effect in November, provides jail terms and fines for perpetrators of hazing, for witnesses to acts of hazing who fail to report such incidents, and for faculty or administrators who encourage, permit or fail to report hazing. Sherwood, section head in the Dean's office for residence and campus activities, will be one of two private college representatives on the Regent's committee. The group will promulgate regulations pertaining to the content and timing of the reporting requirement mandated by the law. Each secondary school and each public or private school or college must file an annual report with the Regents certifying that the institution has complied with the provisions of the law Dean Sherwood said it should be understood that the law covers more than initiation rites in fraternities or other living groups, and can be extended to include acts by any group or organization construed as hazing. The state law defines hazing as conduct that "willfully or recklessly endangers the physical or mental health of any student or other person. Anyone wanting to know more about the law, or who has suggestions about the implementation of its reporting requirements, can contact him at x3-405l (Rm 7-133), Dean Sherwood said.

Replies wanted

Remember the questionnaires on career development circulated to support staff members last fall? The Working Group on Support Staff issues is hoping more of you will still respond. Your input is important in recommendations the Working Group makes to the MIT administration.

If you've sent yours back, the Working Group says "thanks." If you need a new copy to fill out, you can get one at the Working Group's Open House in the Bush Room (10-105) today noon-1pm or Thursday, 1-2pm. Or you can call x3-3386 and one will be dispatched right away.



AO620-00 made over a four-year period have revealed that the x-ray eruptions are produced by a binary system in which one member is a dwarf star and the other the probable black

New telephones coming in '88

There's a new telephone system in MIT's future, but don't hold your breath. The scheduled operational date is June 11, 1988.

What is coming is a \$16 million state-of-theart AT&T 5-ESS digital switching system which will permit, among other things, simultaneous voice and data transmission. The new system also will unite the two main existing systems—Centrex and the dormlines—as well as integrating some remote small systems, according to Morton Berlan, director of telecommunications systems.

The new system will be the first to use an Integrated Services Digital Network (ISDN) software program now being developed. The software, which will be tested late in 1986 by Illinois Bell Telephone will permit worldwide connections for voice and data.

Though the 'cutover' date for the new system seems distant, work on the installation has already begun, Mr. Berlan said. The first step is making an inventory of the telephones now in use. This is being carried out by AT&T people who are moving west to east across the of a binary system, however, x-ray astronomers may detect its presence by observing the high-

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campus. In many cases existing telephones will be compatible with the new system.

Also this year work will be done on the expansion of the duct system and connecting the now-unconnected buildings. MIT will buy some of the wire it now rents from New England Telephone as well as put in new wire where necessary. Three major switches—on East, Main and West Campus—will be installed to provide for economy in distribution.

In 1987 the focus will be on what kind of equipment and service MIT people want and need. All of the existing services and some new ones will be available and people will select those they want. Later in the year new equipment will be delivered and installed so that the campus will be ready for the 1988 change.

The last major telephone change was the installation of Centrex in 1972, Mr. Berlan said. MIT will own the new system, rather than continuing to rent from New England Telephone, which should offer economy as well as improved service.



January 15-26

Note: Because of space constraints imposed by the IAP Timetable, most regularly recurring activities and meetings are not listed this week. The listings will resume as soon as space is available.

Special Events

Living the Dream* - Dr. Shirley Ann Jackson, research physicist, AT&T Bell Laboratories, Murray Hill, NJ, 12th Annual Celebration Honoring Dr. Martin Luther King, Jr, Wed, Jan 15: March to Kresge – assemble 12noon, Lobby 7; Lec-ture – 12:30pm, Kresge Auditorium, reception follows program; Developing and Maintaining a Positive Ethnic Identity – Dr. Shirley Ann Jackson, lecture followed by open discussion 4-5:30pm, Student Ctr Sala de Puerto Rico.

Seminars and Lectures

Wednesday, January 15

The Anthropology of Clothes* - Jean Jackson, associate professor, anthropology; Prof Samuel Jay Keyser, associate provost, Educational Programs and Policy and director Center for Cognitive Science, Hayden Gallery Nude, Naked, Stripped Exhibit Program, 1pm, Hayden Gallery

Tuesday, January 21

A New Power Cycle with Increased Efficiency: the Kalina Cycle** - introduction and overview, Dr. Myron Tribus with invited speakers, including Alexander Kalina, Ex-ergy, Inc, Dept of Mechanical Engineering Seminar, 9am-4pm, Rm 9-150.

Nuclear Spin Waves in Spin-Polarized Hydrogen Gas^{*} – Prof David M. Lee, Cornell University, Francis Bitter National Magnet Laboratory Seminar, 4pm, Rm NW14-2209. Refreshments served, 3:30pm.

Noam Chomsky* - LSC Lecture, 8pm, Rm 10-250.

Wednesday, January 22

Leathergirls Just Wanna Have Fun* - Slide/tape work by Suzanne C. Shepherd; discussion with the artist and Donna Turley, writer/co-founder of feminists Anti-Censorship Task Force (FACT), Hayden Gallery Nude, Naked, Stripped Exhibit Program, 7pm, Wiesner Bldg Bartos Theatre.

A View to Today's China* - Dean Eugene Chamberlain, international students' advisor; associate dean, Student Affairs Office, Friendship Association of Chinese Students and Scholars (FACSS) presentation: slide show & comments on Dean Chamberlain's recent study mission to the People's Republic of China, 7:30pm, Student Ctr Rm 491. Info: Hong Ma, x3-3623.

Thursday, January 23

The Art and Politics of the Nude: Past and Present^{*} – George Stambolian, Dept of Art History, Wellesley Col-lege, Hayden Gallery *Nude, Naked, Stripped* Exhibit Program, 1pm; Hayden Gallery.

Comparable Worth** - Barbara Grey, state senator, Women's Forum Gay Warner Lecture, 4-6pm, Rm 66-110. Reception & refreshments, 3:30pm.

Friday, January 24

ICRF Stabilization of Tandem Mirrors* - Dr. Jim Myra, Science Applications International Corporation, Plasma Fusion Center Seminar, 4pm, Rm NW17-218.

Films

American Challenge^e - Film of the intimate on-board story of seven solo sailors facing an ultimate challenge: the Observer Singlehanded TransAtlantic Race, Jan 15, 7pm, MIT Museum.

Community Meetings

Medical Consumers' Advisory Council** - Open meeting, Tues, Jan 28, 12noon, Rm E23-297. Call x3-1316 if you would like to atten

The Loon and Heron Theatre Presents What's Inside My Magic Trunk?. Sat, Jan 18, 1pm, Rm 10-250. Back by popular demand, the highly acclaimed acclaimed Loon and Heron Theatre presents this all-new play based on children's own writings. Lively entertainment for children in grades K-3. Tickets: \$2/pp, available in Rm 20A-023. Don't miss it!

Camping and Recreational Vehicle Show. Sat-Sun, Jan 18-26. Stock up on the trail mix and granola bars, load up the backpack, tack the bikes onto the back of the Winnebago and gear up for this show of over 600 of the current year's models in trailers, motor homes and vans, and a large representation of campgrounds and campsites. Show covers 205,000 square feet of the Bayside Exposition Center, M-Sat, 1-10pm; Sun, 12-7pm. Tickets: \$2/adults (reg \$4); \$1/children ages 6-12 (reg \$2); under 6 free, available in Rm 20A-023.

Home Show. Feb 1-9, M-F, 1-10pm; Sun, 12-7pm, Bayside Exposition Center. Everything for both exterior and interior home improvements, including furniture, siding, plumbing, and more, on display. Tickets: \$1.50/adults (reg \$3) and \$.75/children (ages 6-12; under 6 free; reg \$1.50), available in Rm 20A-023.

Waterville Valley Day Trip. Sun, Feb 9. Bus leaves West Garage 6am, returns to MIT approx 6:30pm. Cost: Downhill: \$32.50/pp; cross-country: \$16.50/pp. Reservations may be made in Rm 20A-023.

Family Ice Skating. Sun, Feb 9, 1-4pm, MIT Athletic Center. No athletic card required. Ice skate rentals, depending on availability, \$2/ea (sizes 4 and up) - athletic card required for rentals. Skates must be returned at the end of the allotted skating time. Free.

Washington, DC Presidents' Day Weekend. Fri-Mon, Feb 14-17. Visit the Smithsonian, FBI, National Zoo, and all the monuments - FREE. Go to some of the best restaurants, the atre, Georgetown, or go jogging or ice skating on the Mall. We will be staying at the Best Western Convention $\rm Ctr$ – which is in walking distance to everything – and the Metro, which will get you everywhere. Naturally, there are the usual sur-prises. The bus leaves West Garage, Feb 14, 7am; returns Mon, Feb 17, 8pm. Cost: \$118/pp/dbl occupancy only (bus and hotel fares inc in total cost). Make your reservations now in Rm 20A-023.

Boat Show. Sat-Sun, Feb 15-23, Bayside Exposition Center. 30-year old show of luxury cabin cruisers, kayaks, wind surfers, catamarans and more. Tickets: \$2/adults (reg \$4); \$1/children (ages 6-12; reg \$2; under 6 free), available in Rm 20A-023.

Jean-Pierre Rampal. Fri, Feb 21, 8pm, Symphony Hall. Share an evening of musical magic with the world-renowned flutist. Tickets: \$17/ea (reg \$18.50) available in Rm 20A-023.

Cinderella. Sat, Feb 22, 2pm, New England Life Hall. The fairy godmother and pumpkin-turned coach brought to life in this lively Boston Children's Theatre production. Tickets: \$4.25 (reg \$5), available in Rm 20A-023.

Rap Master Ronnie. Thurs, Feb 27, 8pm, Next Move Theatre. The master satirist, Garry Trudeau, immerses us into playful-but-thought-provoking-satire with this musical revue. Tickets: \$18 (reg \$19.50) available in Rm 20A-023.

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, Rm A-150.

Museum of Science Tickets. Available for only \$1. Pay another \$1 at the door, for a total savings of \$3/pp/adult; \$1/pp/child (reg \$5/pp/adult; \$3/pp/child).

Ski-Key Books. Containing valuable discount lift ticket coupons for the greater New England area are here! Only \$9 ea.

New! The Greater Boston '86 Books are here! 2-volume S20-page discount coupon book offer discounts on fine and casual dining, theatre, comedy shows, opera, ballet, museums, hotels, car washes, cleaners, and more. . . for the greater Boston area and beyond (inc areas in the Metro West, South Shore, North Shore & north of Boston). A limited supply now available for only \$20 ea (reg \$30 ea).

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

Movies

The Man Who Fell to Earth** - LSC Movie, Jan 15, 7&10pm, Rm 26-100. \$1/MIT-Wellesley ID.

Harold and Maude** - LSC Movie, Jan 17, 7&9:30pm, Rm' 26-100. \$1/MIT-Wellesley ID.

Lawrence of Arabia** - LSC Movie, Jan 18, 8pm only, Kresge Auditorium. \$1/MIT-Wellesley ID.

Fame** - LSC Movie, Jan 19, 7&10pm, Rm 26-100. \$1/MIT-Wellesley ID

Cat People** - LSC Movie, Jan 22, 7&10pm, Rm 26-100. \$1/MIT-Wellesley ID.

Live and Let Die** - LSC Movie, Jan 24, 7&10pm, Kresge Auditorium. \$1/MIT-Wellesley ID.

Cartoon Festival** - LSC Movie, Jan 25, 7&10pm, Rm 26-100. \$1/MIT-Wellesley ID.

Fiddler on the Roof** - LSC Movie, Jan 26, 6:30&10pm, Rm 26-100. \$1/MIT-Wellesley ID.

Theater

The Amazing Dacri^{**} - Steve Dacri, Magician, Jan 16, LSC Seminar - 3pm, Rm 26-100; Magic Show - 8pm, Kresge Auditorium. \$1/MIT Wellesley ID for either or both.

Exhibits



Note: Because of space constraints imposed by the IAP Timetable, most regularly recurring activities and meetings are not listed this week. The listings will resume as soon as space is available.

* - Open to public

** - Open to MIT Community only *** - Open to members only

Announcements

Registrar's Office Official Notice - Fri, Jan 17 is the last day to petition for February Advanced Standing Exam and to return application card for postponed finals.

Registrar's Office Official Notice - Fri, Jan 17 is the last day to go on or off the Degree List.

Career Planning and Placement Company Recruitment Presentations* - Exxon Corporation, Jan 21, 5:30-8pm, Faculty Club.

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, Rm 10-140, x3-8250.

Club Notes

MIT Masters Swim Club** - Structured, coached workouts for graduate students and other members of the community who are not eligible for varsity swimming. Practices W/F, 8:30-10pm; Sun, 4-5:30pm. \$100/9 weeks starting Jan 22.

Graduate Studies

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

US Navy Office of Naval Research Graduate Fellowships. Approximately 45 three-year Fellowships available for 1986-87, awarded for study and research in the following nine awarded for study and research in the following hine disciplines: electrical engineering, computer science, naval ar-chitecture and ocean engineering, materials science, applied physics, aerospace/mechanical engineering, life sciences and mathematics. These renewable fellowships have a 12-month tenure and pay full tuition and fees plus a stipend of \$13,000. Applicants must be US citizens who will receive their baccalaureate degree in 1986. Deadline: January 31, 1986. For applications, write: American Society for Engineering Education, 11 Dupont Circle, Suite 200, Washington, DC 20036.

Walter S. Barr Fellowships. Awarded by the Horace Smith Fund for advanced study or research. Fellowships are limited to residents of Hampden County, Mass, who have been or about to graduate from college. Candidates should be preparing for careers of "definite social usefulness," such as careers in politics careers of "definite social usefuiness," such as careers in politics or scientific research. The GRE Aptitude or other appropriate professional school aptitude test is required of applicants. Min-imum award is \$1,500. Deadline: February 1, 1985. Apply to: The Secretary, The Horace Smith Fund, Box 3034, Springfield, Marc Others Science Smith Fund, Box 2014, Springfield, Mass 01101.

Fulbright Scholar Awards 1986-87. The Council for Interna-tional 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 comparable professional qualifications, university or college teaching experience, and for selected countries, proficiency in a foreign language. Application deadlines: February 1, 1986 for the seminar in German civilization, Spain Research Fellow-ships, and France and Germany travel-only awards. For more information, contact Dean Eugene R. Chamberlain, Rm 5-106, 2020 x3-3795.

Howard Heinz Endowment Office Research Grants on Latin American Issues. To interdisciplinary teams with at least one political scientist and/or economist. Also, one team member must be based at an institution located within the Commonwealth of Pennsylvania. Information and applications: Marty Muetzel, Howard Heinz Endowment, 301 Fifth Ave, ittsburgh, Penn 15222, 412-391-5120. All applications must be ubmitted no later than February 14, 1986; awards announced Pittsb by July 1, 1986.

nian General Benevolent Union (AGBU) Hirair & An-An na Hovnanian Fellowships - two fellowships, each in the amount of \$3,000 given annually to assist Armenian-American students specializing in government, international affairs, or instutents spectrating in government, must advant students, or in ternational law. Applicants must be graduate students with high academic standing. Written requests for application forms must be submitted to the Armenian General Benevolent Union, 585 Saddle River Rd, Saddle Brook, NJ 07662 (tel: 201-797-7600) by February 15. Decisions will be communicated to the amplicants during July Mellon Fellowship Program, 1986. The Program in Science, Technology and Society at MIT invites proposals from scientists, engineers, and physicians for several one year study fellowships on the relationships of science, technology, or medicine with society. PhD or equivalent in science or engineering is desirable. Partial or full stipend. For more information write: Deborah Wilkes, Mellon Fellowship Committee, Rm E51-128. Deadline: February 1, 1986. February 1, 1986.

Department of Energy-Sponsored Activities. Administered by Oak Ridge Associated Universities: Faculty Research Par-ticipation Program – summer appointments which provide support for collaborative participation in ongoing energy research and development at designated DOE facilities. Stipends or salaries are based on the university salary of the ap-plicant. Undergraduate Student Research Participation Program – summer appointments to participate in ongoing energy research at designated DOE facilities. Participants paid on a weekly stipend. Graduate Student Research Participants on a weekly stipend. Graduate Student Research Participa-tion Program – supports summer research in fossil energy technologies at the Pittsburgh, Penn. and Morgantown W. Va. Energy Technology Centers for beginning graduate students. A weekly stipend will be provided. Applications for the above are due January 20, 1986. Magnetic Fusion Energy Technology and Magnetic Fusion Science Fellowships and the Nuclear and magnetic rusion science relievance and the ruccear Engineering, Health Physics, and Radioactive Waste Management Fellowships - Competitive fellowships awarded to students for graduate study and research at designated universities in magnetic fusion energy technology, applied plasma physics, nuclear engineering, health physics, and radioactive waste management. The practicum is at a DOE research facility. The basic student stipend for both fellowships is \$12,000 annually plus fees and tuition. The deadline for these fellowships is January 27, 1986. To request application materials or more information, contact the University Programs Division, Oak Ridge Associated Universities, PO Box 1127, Oak Ridge, Tenn 37831-0117, (615) 5765-3255

Internships

The following is the list of internships received this week. For more information please see the Internship Information notebook in the Office of Career Services, Rm 12-170, NOTE: The Office of Career Services has added a new directory to their Career Library: Getting Work Experience, the College Students' Directory of Summer Internship Programs that Lead to Careers. It can be found in the Reference section of the Career Services Office. Services Office.

Volunteer/low paying internships: Planned Parenthood League of Massachusetts, Cambridge; State of Illinois, Office of the Governor; The Black Sheep Review, Cambridge; Cambridge Historical Commission; United Nations Dept of Public Informa-tion, New York City; The Smithsonian Institution, Washington, DC; The General Court of Massachusetts, Senator Bolling's of-the Releave Henrich Courter New York City; and Institute on fice; Bellevue Hospital Center, New York City; and Institute or Comparative Political and Economic Systems, Washington, DC

Internships Offering a Stipend:

Arthur D. Little, Inc, Cambridge is accepting applications from first year graduate students in Information Systems/Computer Science or MBA who have at least two years related work ex-perience and would like to work for A.D. Little during the sum-mer of 1986 as an Intern.

Sponsors for Educational Opportunity is offering their summer investment banking, internship on Wall Street for Minority Students. Our office has application forms; deadline is March 1 for submission of applications.

T. Rowe Price Associates in Baltimore, Md, a leading investment firm, seeks two undergraduate students for a 2 year in-ternship. Deadline to apply is Feb 28.

Pacific Gas and Electric Company is offering their Summer Technical Internship Program for students who have completed at least their junior year. Opportunities exist in design engi-neering, power plan operations, systems planning, planning and research, energy conservation and services, and computer systems and services, all within California.

IBM in San Jose seeks students in the following areas for six month assignments: computer science, chemical engineering, physics, industrial engineering, mechanical engineering, chemistry, material science and accounting.

UROP

MIT and Wellesley undergraduates are invited to join with MIT and Wellesley undergraduates are invited to join with faculty members in pursuit of research projects of mutual fascination. Undergraduates are also urged to check the Undergraduate Research Opportunities Program's bulletin boards located in the main corridor of the Institute and in the UROP Office. Faculty supervisors wishing to have projects listed should send project descriptions to the UROP Office. Questions? Contact us, x3-5049, Rm 20B-141. Sea Grant UROP Award. Awards of \$750 will be given for undergraduate research in any area related to the study and

undergraduate research in any area related to the study and management of ocean resources. Proposals may come from departments throughout MIT (Wellesley students may also app-ly). A letter of recommendation should accompany the proposals

Iy). A letter of recommendation should accompany the proposals and be sent to the UROP Office by February 10, 1986. Elorants Summer Fellowship Program. Several \$4,000 research fellowships for MIT undergraduates will be awarded this spring for work to be done during the summer. Areas of study may be in any field: science, engineering, humanities. Travel is encouraged. Originality is rewarded Deadline is March 31, 1986. Contact the UROP Office for more details. Civil Engineering UROP Traineeships. The Dept of Civil Engineering offers several traineeships of \$600 which are

Engineering Offers several traineeships. The Dept of Civil Engineering offers several traineeships of \$600 which are awarded on the basis of a UROP proposal competition. Deadline is February 10, 1986. For more information, call the Civil Engineering Undergraduate Center or Prof Sallie Chisholm, x3-1771.

Nuclear Engineering UROP Awards. Several awards are given to encourage research with faculty in the Nuclear Engineer-ing Dept. Freshmen are encouraged to apply. Contact: Prof Ronald Ballinger, x3-5110, Rm 24-215 for more details.

Language Training Project for Project Athena. 2 Projects 1)Student should have some knowledge of signal processing. Focus of project is on programming of computer for a speech pro-duction task. Contact: Tom Carrell for more details, x3-7821; 2)Need a student to help coordinate, design and administer the 2)Need a student to help coordinate, design and students experimental components of our developing project. Background

MIT Faculty Club** - Jan 15: Surprise Night in the Lounge, 5-7pm; Jan 20: M.L.King Day - Club Closed; Jan 22: Lobster Night, Main Dining Rm, 4:45-7:45pm; Jan 24: Friday's Fabulous Buffet, 11:45-2pm. 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.

Working Group of Support Staff Issues Open Houses** -Jan 15, 12-1pm; Jan 16, 1-2pm, Rm 10-105. Refreshments served.

Women's League Quilt and Needlework Display** - Jan 17, 12-5pm, Hayden Library (14S-100). Bring examples of edlework or demonstrate a skill. Call Nancy Whitman, x3-6040 or Beth Harling, 749-4055 for information

MIT Activities Committee

MITAC, the MIT Activities Committee offers discount movie tickets for General Cinema, Showcase and Sack (USA Cinem Theaters (\$3.00ea). Tickets are good 7 days a week, any

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. Lincoln Lab employees may purchase tickets in Rm A-270 from 1-2pm, Tuesday through 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).

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COMMITTEE ON THE VISUAL ARTS Albert and Vera List Visual Arts Center Jerome & Laya Wiesner Building 20 Ames Street

Hayden Gallery - Nude, Naked, Stripped. Examines the varied attitudes to the body without clothes; its eternal sensuality, its vulnerability in nakedness and the horror of its violation. The issues which surround its depiction – artistically, culturally and psychologically – discussed in accompanying 80-page catalog published by the CVA, through Feb 4. See Educational Programs schedule under Seminars and Lectures.

THE MIT MUSEUM

Compton Gallery – Images of Infinity: Photomontages by Yulla Lipchitz, 50-60 photographs and photomontages reflect-ing the artist's personal vision, Jan 24 through March 8. Open-ing reception, Jan 23, 4-7pm. Hours: Weekdays 9am-5pm, Satur-dom 10-m dec days 10am-4pm.

Sports

HOME EVENTS: Jan 15: M's Ice Hockey vs Gordon, 7pm. Jan 16: Squash vs Colby, 4pm. Jan 17: M's Basketball vs Skidmore, 7pm. Jan 18: M's Gymnastics vs Yale, 1pm; Indoor Track vs Coast Guard, 1pm; M's Basketball vs Coast Guard, 2pm; M's Swimming vs Southern Conn State, 2pm; M's Ice Hockey Ben Martin Invitational, 2pm. Jan 21: Squash vs Tufts, 4pm. M's Ice Martin invitational, 2pm. Jan 21: Squash vs futus, spin. Jan 8 ke Hockey Ben Martin Invitational, 779pm; Ws Basketball vs Suf-folk, 7pm. Jan 22: Squash vs Babson, 4pm; M's Fencing vs Yale, 4pm; W's Fencing vs Yale, 4pm. Jan 23: W's Swimming vs Bab-son, 7pm. Jan 24: Squash vs Middlebury College, 12:30pm; M's Fencing vs Rutgers, 7pm. Jan 25: M's Basketball vs Nichols, 2pm. Jan 26: M's Ice Hockey vs Rochester, 2pm; New England Intercollegiate Wrestling Tournament.

to the applicants during July

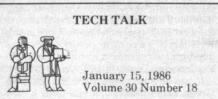
Other Opportunities

Summer Programs for Minority Students Interested in Health Professions - 6-10 week summer sessions offer room, board, stipend, and training for gaining entrance to medical School and to other health-related professional programs. Deadlines begin mid-February. For further information, contact Preprofessional Advising, Rm 12-170, x3-4737.

The Whitaker Health Sciences Fund. Research awards for graduate students and faculty - approximately five fellowships (plus five renewals) for MIT doctoral students, as well as two Whitaker College of Health Sciences, Technology, and Manage ment fellowships (plus two renewals), and one Harvard-MIT Division of Health Sciences and Technology fellowship (plus two renewals). MIT fellowship applications should be submitted to the Dept's Representative for the Committee on Graduate School Policy; Whitaker College fellowship applications to Dr. Emilio Bizzi's office (E25-526); the Harvard-MIT HST Division fellowship applications to Prof Kenneth A. Smith's office (3-240) by February 1, 1986. All renewal applications should be sent directly to the Whitaker Health Sciences Fund Office (E25-501). Fellowship awards will pay a \$800/month stipend, plus a full year's tuition beginning September 1986. In addition, 31 faculty research grants in the amount of \$40,000 (excluding overhead) will be awarded to young investigators in the biomedical sciences as follows: 11 MIT faculty research grants (submit applications to the respective department head by February 1); 9 Harvard Medical School/MIT collaborative faculty research grants; 7 Boston University School of Medicine/MIT collaborative faculty research grants; 4 Tufts University School of Medicine/MIT collaborative faculty research grants (submit ap-plications to the respective chief of the teaching hospital/medical school department by January 15, 1986). For further informa-tion, contact the Whitaker Health Sciences Fund Office, Rm E25-501, x3-7878.

in or knowledge of experimental psychology Contact faculty supervisor, Prof S. Flynn, x3-7821/4771.

Economics Department. Student needed to work on research project regarding determinants and predictors of academic success at MIT. Study will use data supplied by the Admissions Office and involve econometric and statistical methods. 10 hrs/week continuing through spring and possibly into summer. Student should have a statistics/econometrics and computer background. Contact faculty supervisor, Prof Danny Quah, x3-0914, Rm E52-262D.



Tech Talk is published 35 times a year by the News Office, Massachusetts Institute of Technology. Assis-tant Directors: China Altman, Charles H. Ball, Robert C. Di Iorio, Joanne Miller, Tech Talk editor, and Calvin D. Campbell, photojournalist; Editorial Assistant: Sharon Davis; Reporter: Lynn Heinemann (Institute Calendar, Classified Ads, Institute Notices) Institute Notices)

Address news and editorial comment to MIT News Office, Room 5-111, MIT, Cambridge, MA 02139. Telephone (617) 253-2701.

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Seminar to focus on Kalina Cycle

A seminar on the Kalina Cycle, which many engineers and scientists consider to be a major development in steam-driven power generation, will be presented from 9 am-4pm on January 21 in Rm 9-150.

The usual steam-driven power plant vaporizes water in a boiler to produce steam. The Kalina Cycle uses a mixture of 70 per cent ammonia and 30 per cent water which results in variable temperatures during boiling. This permits the transfer of a greater amount of energy to the working fluid, which allows the system to produce more electricity from a given amount of fuel.

"The Kalina Power Cycle promises thermal efficiencies near 50 per cent without new kinds of hardware," said Dr. Myron Tribus, professor of engineering and director of the Center for Advanced Engineering Study. The Center, the Department of Mechanical Engineering, the Department of Nuclear Engineering and the MIT Energy Laboratory are sponsoring the seminar. The Kalina Cycle has been under study at MIT for two years.

The inventor of the Kalina Cycle is Dr. Alexander I. Kalina who emigrated to the United States in 1978 from Russia where he was a leading energy official. He has since worked closely on the cycle's development with Dr. Tribus, an internationally renowned thermodynamics expert, and Dr. Yehia M. El-Sayed, a research engineer at the MIT Center for Advanced Engineering Study. Dr. Kalina has also worked closely with John Eckland, president of Fayette Manufacturing Corp., an energy development company based in Tracy, Calif., and H.M. Leibowitz, who heads Fayette's Kalina program. Dr. Kalina has granted Fayette worldwide rights to the new technology.

Basketball feats

Senior Craig Pool of Exmore, Va., became the tenth player in MIT basketball history to reach the 1,000 mark in scoring when he totalled 10 points against Bates College last week.

Poole, a 6-foot forward, now has 1,001 career points. He is only one point behind Jerry Hudson '74 and 57 behind Bill Eagleson '64 who stands eighth on the all-time scoring list.

In other basketball news, junior Mike McElroy of Watsonville, Calif., recently was selected to the weekly Eastern College Athletic Conference (ECAC) Division III North honor role team.

The 6'6" center had 50 points, shot 73 per cent from the field, and had 22 rebounds in wins over Brandeis and New England College. Against Brandeis, McElroy also made 11 straight field goals including one at the buzzer in MIT's 63-62 win.

MIT will host the US Coast Guard Academy at 2pm Saturday, Jan. 18, in Rockwell Cage. The January 21 seminar will begin at 9am with an introduction by Dr. Tribus who will give an overview of the cycle's operation. At 10am, Dr. El-Sayed will review the status of cycle calculations made during the MIT study. At 11am, Dr. Kalina will discuss the stability of the water/ammonia mixtures and cycle variants for different applications.

At 1pm Ernest Zabolotny and Thomas A. Vivenzio of Stone and Webster Engineering Corp. will give an engineering appraisal of the cycle and discuss implications for the future of the power industry. At 2pm Mr. Leibowitz will discuss a particular application and touch on energy and economic considerations. At 3pm Dr. Arthur Cohn of the Electric Power Research Institute in Palo Alto, Calif., will discuss his institute's Kalina program. At 3:30, Dr. Tribus will present a summary.

Twelfth King Celebration to begin at noon

(continued from page 1)

by students such as Dr. Jackson, brought in even more. The number of black freshmen grew to 57.

Dr. Jackson's address today is entitled "Living the Dream." She said she will note how time is running out in South Africa but that the opportunity still exists in the United States for continued change. She will urge the audience to "believe in themselves and engage the system" to achieve equity.

"This is the legacy of Martin Luther King's dream...This is what he was addressing in a universal way before he died," she said.

The MIT community is invited to participate in MIT's 12th celebration of Dr. King. Participants will assemble at noon today in Lobby 7 to march to Kresge Auditorium. After Dr. Jackson's lecture, a reception will follow in the Mezzanine Lounge in the Student Center. At 4pm she will lead a workshop, "Developing and Maintaining a Positive Ethnic Idenity," in the Sala de Puerto Rico.

Today's events may be held or extended into normal working hours. Joan F. Rice, director of Personnel, has asked the cooperation of supervisors in releasing employees who wish to attend the events, whenever work loads permit.

Information about the tribute can be obtained from Josephine M. Bartie or Dr. Clarence G. Williams, special assistant to the president (Rm 7-203) at x3-5446.

Alumnus, project ride Columbia

(continued from page 1)

The article began: "As a child in San Jose, Costa Rica, Franklin Chang-Diaz used to play inside an empty packing crate, pretending that it was a spaceship on its way to a distant star. Yesterday Dr. Chang realized part of his dream, riding into orbit aboard the shuttle Columbia as the first Hispanic American astronaut. He came to the United States in 1968 with a one-way airplane ticket, \$50 in his pocket, a suitcase, and a dream to fly in space. He had written to the rocket scientist Wernher von Braun asking advice on how to become an astronaut, and Dr. von Braun wrote back, telling the young man to come to America and study science." Dr. Chang came to Hartford, Conn., graduated from the University of Connecticut, and entered graduate school at MIT.

The MIT materials experiment aboard the shuttle is an outgrowth of several years reseach

Obituaries – Robert E. Baker at MIT in which levitation-melted samples are "undercooled" below their melting point by several hundred degrees centigrade before solidification occurs. The solidification that then occurs is extremely rapid and is measured by high-speed optical sensing and cinematography. A number of potentially important engineering applications exist for the metastable and ultra-fine structures that can be obtained by such rapid solidification, Professor Flemings said.

The experiments to be conducted in space will be similar to those carried out on earth, although with less instrumentation. Samples produced in space will be examined back on earth by the MIT team and the results compared with those obtained here.

A NASA announcement says that future aircraft, autos and sporting equipment may contain alloys that are stronger and easier to form thanks to the experiment.

James A. Holbrook

Multi-media artists visit

European multi-media artists Ulay and Marina Abramovic are in residence at the List Visual Art Center's Reference Gallery in the Wiesner Building this month. Their installation, "Modus Vivendi," will be on view until February 9.

These are artists of international reputations. The Stedelijk Van Abbemuseum of Eindhoven in the Netherlands recently organized a survey of their work during the past five years and they are featured in an exhibition, "Choices: Making an Art of Everyday Life," organized by Marcia Tucker for The New Museum of Contemporary Art in New York, opening February 1.

Next Tuesday (Jan. 21) at 7pm, the artists will present a special two-hour program including slides, video, and a discussion of their integration of life and work. A reception in The Reference Gallery will follow.

Marina Abramovic, born in Belgrade, Yugoslavia, and Ulay (Uwe F. Laysiepen), born in Solingen, West Germany, have collaborated in performance, installation, photography, video and film work since 1975. They now reside in Amsterdam.

Upon their arrival in the United States, the artists worked for three days on new Polaroid photographs for their Reference Gallery installation, entitled "Tuesday/Saturday." These gigantic 80"x 40" images of rich, saturated color and shallow but crystalline focus were produced in a room-sized "camera" built by the Polaroid Corporation at the Museum of Fine Arts, Boston.

A lens was attached to the side of a 12'xl6' room which contains technicians who roll and peel the large strips of film. Special masking silhouettes created by the artists were applied to the negative before exposure. Outside, the artists manipulated gestures and colored lighting to create a vivid set of seven photographs of Marina Abramovic exploring a range of inner identities felt by the artists, drawn from primal and universal connecting energies, or animism. Two color panels and an image of an anonymous onlooker complete the series.

Discussing their installation here, Dana Friis-Hansen wrote: "This Polaroid process has particular significance as a medium for the extension of their work. Sharing the immediacy of the live event and the instant return of video, this series again reveals the artists" sophisticated dexterity in focusing their energies, intellectual and spiritual, to seize the moment." Mr. Friis-Hansen is assistant curator of the Committee on the Visual Arts (CVA).

New 'black hole' believed found

(continued from page 1)

energy radiation generated when material from its companion star pours into this gravitational trap.

For two months in 1975, the x-ray nova AO620-00 suddenly flared up by more than a millionfold to become the brightest x-ray object in the sky. At the same time, this outburst was identified with the optical brightening of a faint star.

Beginning in 1981, during a period when the x-ray source was turned off, Dr. McClintock and Dr. Remillård used an electronic camera on the McGraw-Hill 1.3-meter telescope at Kitt Peak, Arizona, to monitor the optical brightness of the AO620-00 binary system. In January 1985, spectra were taken using the 4-meter telescope of the National Optical Astronomy Observatories, also at Kitt Peak.

Secretary's Office sets staff assignments

New staff responsibilities in the Office of the Secretary of the Corporation have been announced by Constantine B. Simonides, vice president and secretary. Elizabeth J. Whittaker will be assistant secretary with responsibility for trustee relations. Nancy R. Spears will be assistant to the secretary for visiting committees.

Marina and Ulay Abramovic

In addition, the artists hope to complete the third in a series of videotapes planned for all seven continents, each a response to the particularities of place and culture. The third, representing the North American continent, is being produced in cooperation with the Film/Video Section of MIT's Media Laboratory. It will be premiered at the List Visual Arts Center; call x3-4680 after February 1 for details about the screening.

The two completed works in this series are: City of Angels (1983, 20 minutes), created at the temple of Ayuta near Bankok, Thailand, and Terra delgi dea Madre (1984, 16 minutes), produced in Sicily. While these differ in setting, tone, and structure, Mr. Friis-Hansen has described them as being meditative and authentic.

"Their previous work has focused on the layers of personal and universal energies which they explored through simple unspoken actions and situations, often involving risk, endurance and co-dependence," Mr. Friis-Hansen said.

Ulay and Marina Abramovic's residency in the Reference Gallery has been organized by the CVA and is funded by the Massachusetts Council on the Arts and Humanities.

The Reference Gallery and the List Visual Arts Center are open weekdays 10am-4pm and weekends 1-5pm.

Analysis of the optical star's light curve, as well as its spectral signature, revealed the object was a dwarf star, about two-thirds the size of the sun, circling a massive companion with a period of 7.8 hours. The great speed of the orbiting dwarf star, more than a million miles per hour, requires that the mass of the dark companion exceed three times that of the sun. It is believed that a neutron star with this mass cannot exist—it would be crushed by its own gravitational field. Thus, Dr. McClintock and Dr. Remillard concluded that the compact member of A0620-00 is a black hole.

Only two other firm black hole candidates— Cygnus X-1 and LMC X-3—have been previously identified, both from dynamical measurements. Those two candidates, as well as the nova A0620-00, have peculiar x-ray spectra which are rich in low-energy x-rays.

level of personalized attention and service that our visiting committees deserve." Ms. Whittaker is a graduate of Wellesley College. She has been a member of the MIT staff since 1963, serving first as assistant to

logistical aspects, while maintaining the high

staff since 1963, serving first as assistant to the director of the Summer Session and, since 1965, as administrative assistant to the President and to the Chairman of the Corporation. Since 1983 she has had the additional title of assistant secretary in connection with her duties as assistant to the Chairman. Ms. Spears has been a member of the editorial staff of the MIT Press for the past year and before that was a teacher and part-time administrator of the Harvard School in Hollywood, Calif. She holds the BA degree in English and anthropology from Amherst College.

A funeral Mass was held December 24 for Robert E. Baker, 59, of Wakefield, a stock clerk at Lincoln Laboratory. Mr. Baker died December 22. He had worked at Lincoln since 1984.

Survivors include his widow, Lucille Albushies Baker; three sons, Robert E. Jr. and Joseph of Malden, and Brian Baker of Wakefield; four daughters, Elizabeth of California, Susan Robishaw of Wakefield, Karen Kelliher of Norton and Linda Dawson of Nashua, N.H.; two brothers and sisters, and six grandchildren.

Wilson memorial

A memorial service will be held at the MIT Chapel on Thursday, Jan. 16, at 2pm for John J. Wilson, retired life member of the MIT Corporation, former secretary of the Corporation and past president of the MIT Alumni Association. Mr. Wilson, an industrialist, prominent Boston-area trustee and well-known yachtsman, died December 31 at his home in Marblehead. Memorial contributions may be sent to the John and Dorothy Wilson Fund at Children's Hospital Medical Center, 300 Longwood Avenue, Boston. Lincoln Laboratory since 1984, died January 4 at the age of 50. Mr. Holbrook leaves his widow, Julia, of Nashua, N.H.

Bertram Humphrey

Bertram Humphrey of Cambridge, a retired guard at Lincoln Laboratory, died December 18. He was 83 and worked at Lincoln from 1954 until his retirement in 1967.

Mr. Humphrey leaves his wife, Irene; a daughter, Ann Barrett of Concord, who also works at Lincoln Laboratory, five grand-children and one great-grandson.

John R. Leonard

John R. Leonard, 87, of Melrose, an instrument maker at the Draper Laboratory from 1946 until his retirement in 1964, died January 1. Mr. Leonard is survived by two sons, John B. of Connecticut and Joseph R. Leonard of Florida; a daughter, Barbara J. Buonaugurio of Melrose; two sisters; 10 grandchildren and two great-grandchildren.

Alfred Richter

Word has been received of the November 9 death of Alfred Richter, 79, of Sarasota, Fla. Mr. Richter was a machinist at the Draper Laboratory from 1954 until his retirement in 1971. He leaves his widow, Frances. Mr. Simonides was elected Secretary of the Corporation last fall, adding those duties to his responsibilities as vice president. He said the appointments represent a restructuring of the Office to provide for the full range of services needed by the Corporation and its visiting committees.

"Ms. Whittaker will be responsible for the management of Corporation meetings, records, communications and for all aspects of liaison and service provided daily to the 100 trustees of MIT," Mr. Simonides said. "Having served for many years in the Offices of the Chairman and the President, Betty. Whittaker brings exceptional qualities to her new position. She knows MIT and she knows how to make things work."

Ms. Whittaker said she welcomes her new responsibilities and particularly the management challenges involved.

Ms. Spears will be responsible for the smooth functioning of the Corporation's 27 visiting committees. Making arrangements for 10-15 meetings each year, maintaining records, and assisting committee heads and MIT officers in appointments and communications with some 500 volunteer members of the committees is a very complex business, Mr. Simonides said.

"We look to Ms. Spears to establish a system that will eliminate surprises and simplify the



Ms. Whittaker

Ms. Spears

Tech Talk, January 15, 1986, Page 3

The IAP Time Table

Introduction

Use the Timetable as a companion to the Guide. When you locate an activity you are interested in attending, refer to the Guide to Activities for details about it. To find the complete listing, simply match the number that precedes the title of the activity in the Timetable with the number of the listing in the Guide. Activities appear in the Guide in numerical order.

New Listings and changes appear at the end of the Timetable.

A schedule with an asterisk (*) by it signifies an activity in which regular attendance is expected.

Preregistration dates of activities have been left in as a reminder to people who have signed up for them. These activities may be closed. They are listed under the dates that they are being held, not under the preregistration dates. If you are interested in attending an activity whose preregistration date has passed, we suggest you call the contact person listed in the Guide to see if there is any room.

Activities which in the Guide stated "date, time, and location to be arranged," and which were not scheduled by the Timetable deadline, do not appear here. If you find an activity in the Guide with no schedule, contact the organizer directly for details.

The Timetable for Jan 6-8 activities appears in this week's Tech Talk, for Jan 9-15 activities in the Jan 8 Tech Talk, for Jan 16-22 in the Jan 15 Tech Talk, and for Jan 23-29 in the Jan 22 Tech Talk.

Last-minute cancellations and schedule changes should be submitted to the IAP Office, 7-108, x3-1668, so that the office can post the information and handle inquiries.

Thursday, January 16

(New) Motions And Deformations Of Tetonic Plates By Very Long Baseline Interferometry (VLBI) 9 am 4 pm, Haystack Observatory

102 Introduction To The Chemical Engineering Practice School And Seminar In Technical Communication 9 am 5 pm, 66-360*

127 Chemical Crystallography 9 am, Norris Room, 18-290

686 Workshop On Engineering Writing: A Review Session For Graduate Students Mechanical Engineering and Civil Engineering: Recommended 9 am.12 noon, 5-233

854 Financing Real Estate Through Syndication Capital 9 am-4 pm, W31-300. Preregister by Dec 10.

3503 Reactor Dynamics 9-11 am, NW12-202. Preregister by day before.

4568 Creative Problem Solving 9 am-5 pm, E51-332.* Preregister by Jan 2.

4151 Central Utilities Plant Tour 9:30-11 am, building 42

(New) In Search Of Excellence 10 am-12 noon, E51-311

8 Aerodynamic Design For High Lift 10-11 am, 33-422.* Preregister by Jan 13.

14 Hybrid Finite Elements 10-11:30 am, 33-319

65 Learning From Building Failures 10 am-12 noon, 5-216. Preregister by Dec 12.

580 Security Clearances And The MIT Student: Your Rights And Obligations 10 am-12 noon, 4-159

630 Sloan School Faculty Open House: Nicolas Majluf 10 am-12 noon, E52-554

653 Bicycle Planning 10 am-12 noon, 10-400

663 Community-Based TV Workshop 10 am-12 noon, 7-335A*

689 The Writing And Communication Center's Consultations 10 am-2 pm, 14N-317

864 How Am I Going To Make This? 10 am-12 noon, 37-664. Preregister by Dec 30.

4280 Science Museum Tour Of The Mary Rose Exhibit 10 am, E38-302. Preregister by Jan 13.

4461 Athena Development Directions Translating Athena Names 10-11:30 am, 34-101

4660 Beginning Hebrew 10 am-12 noon, W2A

3129 Child's Play: The Role of Play In The Developing Child 11 am-12 pm, West Lounge, Student Center (New) A Community Mental Health Resource For Women 12:30-2 pm, 4-163

529 A Naval Architect's Tour Of The USS Constitution 12:30-3:30 pm, location to be arranged. Preregister by Jan 15.

5105 The Kosher Pickle Taste-Off 12:30 pm, Mezzanine Lounge, Student Center

(New) Why SADT Works 1-3 pm, 4-270

87 Techniques In Molecular Biology Antibodies Against Synthetic Peptides 1-3 pm, 16-310

402 Theory And Computational Methods For Machine Dynamics 1-2 pm, 37-186.* Preregister by Jan 10.

563 Physics Flicks Symmetry In Physical Law 1 pm, 6-120

626 A Brief Introduction To Law Patent And Copyright Law 1-3 pm, E51-302

727 Management Of High-Technology Entrepreneurship 1-4 pm, 34-101*

1056 Designing Physics Experiments For Fun 1-3 pm, 24-612

2060 Bicycle Repair And Maintenance 1 pm, 26-414. Preregister by Jan 13.

3079 Talking To Computers 1-3:30 pm, Media Lab, third floor. Preregister by Jan 15.

3131 Contraception 1-2 pm, West Lounge, Student Center

4411 Open House: Working Group On Support Staff Issues Thurs. Jan 16, 1-2 pm. Bush Room

4807 Jewish-Catholic Relations

377 Integration Bee

1:30 pm, 10-250 (New) Epilepsy 2-3 pm, 4-163

1-2 pm, 1-132

808 Review of Basic Math And Microeconomics 2-4 pm, E38-615

6 Highlights Of Aeronautics And Astronautics Turbulence In Fluid Mechanics And Its Consequences 2·3 pm, 33·206

60 Expressive And Descriptive Watercolor: Techniques For Designers And Artists 2-5 pm, 7-404.* Preregister by Dec 12.

106 Structuring A New Enterprise 2-4 pm, 66-319*

566 Physics: Live Infrared Astronomy And Gravitational Waves 2-3 pm, 20F-001

3132 Dietary Fiber: Will Your Life Really Depend On

It? 2-3 pm, West Lounge, Student Center

4703 Israeli Folk Dance For Beginners 2-3 pm, 407 Student Center

134 Poetry Reading: Richard Brautigan And Others 3-4 pm, 4-270

581 Espionage In The 80s 3-5 pm, 4-163

630 Sloan School Faculty Open House: Deborah Gladstein 3-4 pm, E52-582

656 Planning, Organizing, And Questions Of Power 3-5 pm, 1-134

751 Magic Show, Close-Up Style 3-4:30 pm, Bush Room, 10-105

2072 Bayreuth By The Charles: Wagner's Ring Cycle 3 pm, location to be arranged. Preregister by Dec 15.

3900 Open Meetings Of The Institute Colloquium Committee 3-4:30 pm, 10-280

4552 Where To Invest Your Money 3 pm, 3-133*

4565 Leadership Styles

4570 Investing (Profitably) In Real Estate Limited Partnerships 3-4 pm, 4-159

5051 Feminist Readings

325 Women In Crime Out Of The Past 7 pm, 66-110

2069 Computer Chess 7 pm, 24-034

2072 Bayreuth By The Charles: Wagner's Ring Cycle 7 pm, location to be arranged. Preregister by Dec 15.

2086 Cultural Awareness In Design And Planning Practice: An EAP Forum 7-9 pm, 10-400*

4250 Introduction To Thoroughbred Handicapping 7 pm, 36-372

4765 The MIT Ballroom Dance Club Crash Course Waltz 7-10 pm, Sala de Puerto Rico, Student Center

4810 How To Answer A Cultist And Other New Testament Topics 7-8 pm, 66-319

4814 The Baha'i Faith: A New View Of Religion Racial Equality As A Prerequisite To World Peace 7-9 pm, West Lounge, Student Center

4571 Do-It-Yourself Electronics 8-10 pm, 35-225*

4656 Introduction To New Testament Greek 8-9 pm, 66-319*

5111 Strat's Rat Skin 9:30 pm-12:30 am, second floor, Student Center

Friday, January 17

102 Introduction To The Chemical Engineering Practice School And Seminar In Technical Communication 9 am-5 pm, 66-360*

632 Mysteries Of Production Scheduling 9-11 am, E51-310

686 Workshop On Engineering Writing: A Review Session For Graduate Students Ocean Engineering 9 am:12 noon, 5-233

686 Workshop On Engineering Writing: A Review Session For Graduate Students Electrical Engineering and Computer Science 9 am-12 noon, 38-136

854 Financing Real Estate Through Syndication Capital

9 am 4 pm, W31-300. Preregister by Dec 10. 4568 Creative Problem Solving 9 am 5 pm, E51-332.* Preregister by Jan 2.

(New) Chinese Cultural Festival Exhibition Of Chinese Antique Arts 10 am-3:30 pm, Bush Room, 10-105

(New)Chinese Cultural Festival Life In The Republic Of China (slideshow) 10 am, Bush Room, 10-105

14 Hybrid Finite Elements 10-11:30 am, 33-319

127 Chemical Crystallography 10 am-12 noon, Norris Room, 18-290

209 The Mexican Crisis 10 am-12:30 pm, E51-317

653 Bicycle Planning 10 am-12 noon, 10-400

663 Community-Based TV Workshop 10 am-12 noon, 7-335A*

689 The Writing And Communication Center's Consultations 10 am-2 pm, 14N-317

4811 Science Looks At The Bible, The Bible Looks At Science 10:30 am-12 noon, W2A

180 Current Problems In The Earth Sciences The Greenhouse Effect And Climate

11 am, 54-100
2025 Semiconductor Manufacturing

11 am-12 noon, 35-338

(New) Chinese Cultural Festival

Introduction To Chinese Acupuncture 12 noon-1 pm, Bush Room, 10-105

11 am-12 noon, West Lounge, Student Center

2066 So You're Afraid Of Your Microwave?

(New) Quilt And Needlework Display and Workshop 12 noon-5 pm, MAP Room, Hayden Library, 14S-100

12 noon-1:30 pm, location to be arranged. Preregister by

3076 How Inventions Come To Life And How To Kill

4152 Demonstration Of MIT's Energy Management System 11 am-12 noon, building 42

(New) Science Action Coordinating Committee Revival 12 noon-2 pm, 4-249

401 Biomechanics: How The Human Motor System Works And How To Fix It When It Doesn't 12 noon-1 pm, 3-133

1196 Feasting Twice 12 noon-2 pm, E51-017

3076 How Inventions Come To Life And How To Kill Them 12 noon-1 pm, E15-305

3130 Puberty: Growth And Development In The Adolescent Years 12-1 pm, West Lounge, Student Center

4604 Is There A Peace Process In The Middle East? What Kind Of Process, What Kind Of Peace? Gendzier, Boston University, Joseph Gerson, American Field Service Committee 12 noon-2 pm, 1-190

4751 England Encore: Thames Kayaking And York And The Dales 12 noon-1:30 pm, 1-136

4757 Yoga 12 noon-1 pm, 10-340

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3-4 DM. E02-341

3-4 pm, 4-370

11 De-Escalation Of The Space Arms Race 4 pm, 33-319

456 The Soul Of An Old Machine 4-6 pm, 4-160*

587 The Best Way To Elect The President: Paradoxes, Curiosities, And Mathematics 4-6 pm, 37-212

725 Leadership, Teamwork, Productivity 4-5:30 pm, 4-149

776 Things You Can Do With A Technical Degree Besides Hands-On Technical Work Operations Management And Planning System 4 pm, 4-153

4103 Operations Research Center Faculty Lecture Series 4-5 pm, E40-298

4562 Bicycle Building And Maintenance 4-5:30 pm, 13-1143. Preregister by Jan 1.

4755 Kundalini Yoga Meditation: A Neurocognitive Approach To Excellence 5-7 pm, 24-624.

Aikido 5:30-6:30 pm, exercise room, du Pont

4800 Christian Science Organization At MIT: Weekly Testimony Meetings 5:45-6:30 pm, 4-145

222 Build Your Own Computer 7-8:30 pm, 34-101.* Preregister by Jan 7. 2 noon-1 pm, 110-000

383 Knitting Clinic

12 noon-1 pm, 12-102

Jan 3.key: Change

Them

3133 The Best Of Outdoors Medicine 12 noon-2 pm, E25-117

3135 Severe Premenstrual Syndrome: Evidence For An Endocrine Disorder 12 noon-1 pm, West Lounge, Student Center

4757 Yoga 12 noon-1 pm, 10-340

4804 Torah And Chocolate 12 noon-1 pm, W2A

91 Electron Microscopy Of Biological Material 1-5 pm, 16-542. Preregister by Jan 10.

(New) Chinese Cultural Festival Workshop Of Chinese Papercutting 1 pm, Bush Room, 10-105

133 High Resolution Multinuclear NMR 1-2:30 pm, 2-190

175 Earthquake Activity In New England 1 pm, E34-430

402 Theory And Computational Methods For Machine Dynamics 1·2 pm, 37-186.* Preregister by Jan 10.

626 A Brief Introduction To Law Starting And Running A High-Tech Company 1-3 pm, E51-329

686 Workshop On Engineering Writing: A Review Session For Graduate Students Nuclear Engineering, Technology and Policy 1-4 pm, 5-233 o is pin, o our. a renegioter of bee to.

450 Violin And Piano Recital: Music Of J. C. Bach And Mozart 8 pm, Kresge Auditorium

ter by Dec 16

4902 The Social Implications Of Rock And Roll

2072 Bayreuth By The Charles: Wagner's Ring Cycle

7 pm, location to be arranged. Preregister by Dec 15.

686 Workshop On Engineering Writing: A Review

862 Voyager Encounters Uranus: First Visit To The Seventh Planet

3136 Is There A Mammogram In Your Future?

4706 Workshop In Maintenance Of Theatrical

The Republic Of China Builds For Tomorrow (slideshow) 2 pm, Bush Room, 10-105

57 Drawing Designed Form 2-5 pm, 7-431, new exhibition room. Preregister by Dec 12.

63 New Design: Sketches And Pixels 2-4 pm, computer resource lab, 9-551.* Preregister by Dec.

2059 Laboratory For Nuclear Science And Physics

6 Highlights Of Aeronautics And Astronautics From Myth To Reality: The Daedalus Human-Powered

A Visitor's Guide To Taiwan, The Republic Of China (slideshow)

285 Social Conflict: Ten Historians View Its Causes

527 The Sea-Based Nuclear Deterrent And Arms

662 Urban Design: What Should Architects And

3 pm, location to be arranged. Preregister by Dec 15

4712 Dance Workshop Guest Instrutor Series 3:30-5 pm, T-Club Lounge

2072 Bayreuth By The Charles: Wagner's Ring Cycle

4801 Safety Under God's Protection: A Free Christian

627 Starting And Running A High-Tech

Company-Seminar Discussion 3-5 pm, E52-341

4561 Personal Financial Planning

2071 Learning From The Past Early Days Of Cosmic Ray Research 3:30 pm, 9-150

456 The Soul Of An Old Machine

4657 What Is Science Fiction?

4824 Science, Religion, And Life

(New) Chinese Cultural Festival

7:30 pm, 270 Student Center

351 In Vino Veritas

4611 Media In Contemporary India Images Of Women On Indian Television

5 pm, 473 Student Center

Spiritual View Of Science 5:15 pm, Chapel

4508 Wintercon '86

7 pm, Student Center

The Pioneers (film)

7:30 pm, 10-250

7:30 pm, 4-231

Plasma Fusion Center Seminar Series Ion Bernstein Wave Heating Experiments On PLT

Session For Graduate Students

727 Management Of High-Technology Entrepreneurship 1-4 pm, 34-101*

1-1:40 pm, West Lounge, Student Center

3137 Breast Lumps 1:40-2 pm, West Lounge, Student Center

(New) Some Main Problems Of Philosophy Is It Possible To Travel Back In Time?

(New) Chinese Cultural Festival

Chemical Engineering 1-4 pm, 38-136

Lighting Instruments

1-4 pm, Kresge Little Theatre

1-3 pm, 10-250

2 pm, 37-212

12 in 7-303.

209 The Mexican Crisis

Department Lecture 2 pm, 4-145

3010 Music Library Concert Series Piano Recital 2 pm, Music Library, 14E-109

2:30-4:30 pm, Marlar Lounge, 37-252

(New) Chinese Cultural Festival

3 pm, Bush Room, 10-105

And Nature The French Revolution 3-4:30 pm, 2-190

Control 3-4:30 pm, 1-246*

Planners Know?

3-5 pm, 10-485

3-5 pm, 5-134

Science Lecture 3 pm, 4-159

4-6 pm, 4-160*

4 pm, NW17-218

2-4:30 pm, E51-317

Flight Project

4752 Cross-Country Skiing 8 pm, Fri-8 pm, Sun, Plymouth, New Hampshire* Preregister by any Thurs, 5:30 pm.

Saturday, January 18

4550 Automotive Engines 8 am-2 pm, building 31

4508 Wintercon '86 10 am, Student Center

457 String Sextets 12 noon 4 pm, Rehearsal Room B, Kresge. Preregister by Dec 9.

(New) Chinese Classes 1-3:30 pm, 1-136

4435 Art Classes And Facilities At The Student Art Association Making Marbled Paper 1-4 pm, 425 Student Center

4653 Finnegans Wake, Thunderclaps And All 2-4 pm, 16-134.* Preregister by Jan 10.

2072 Bayreuth By The Charles: Wagner's Ring Cycle 3 pm and 7 pm, location to be arranged. Preregister by Dec 15.

4808 Day Of Prayer, Concert Of Prayer 7 pm, 37-252

5112 Midnite Movies Prime Of Miss Jean Brodie 11 pm, second floor, Student Center

Sunday, January 19

(New) Women's LaCrosse Club Practice 10 am-12 noon, infield of indoor track

4508 Wintercon '86 10 am, Student Center

(New) Play WAR On The Chipmunks 12 noon, 34-501

(New) Ultimate Frisbee on-3 pm, New Athletic Center, second floor

4505 Monopoly Tournament on-5:30 pm, Mezzanine Lounge, Student Center 12 r

5100 Don't Panic 1 pm, 473 Student Center

451 Oct-Opus Music 3-6, Kresge Auditorium. Preregister by Jan 6.

4614 Chinese Cooking Made Fun And Easy 3-7 pm, Next House Kitchen. Preregister by Jan 6.

4907 Contemporary Gay Issues Coming In/Staying Out 5 pm, 50-306

(New) Intermediate Israeli Folk Dance 7-9 pm, 407, Student Cent

Monday, January 20

100 Glassblowing 9 am-12 noon, 66-157*

14 Hybrid Finite Element Methods 10-11:30 am, 33-319. Preregister by Jan 8.

151 Analytical Solutions To Transportation Problems

233 Space Charge Effects In High Field Conduction 10:30 am-12 noon, High Voltage Research Lab, N10-220

752 How To Speak 11 am-12 noon, 34-101

582 Central America: Developing Alternatives To US Foreign Policy 12 noon-2 pm, E52-321*

3083 Introduction To A Japanese Martial Art: Shorinji Kempo 12 noon-2 pm, dance studio

4661 Media Myths And Manipulations 12 noon, 37-212

4809 What Does It Mean To Be Born Again? 12:15-12:45 pm, location to be arranged 564 The Program In Science And Technology For **International Security**

2-4 pm, 12-142 3 Private Pilot Ground School: Airplane And Glider 4-6 pm, 33-419*

4 Instrument Pilot Ground School

4853 Nanotechnology Lecture Series **Limits To The Possibl** 4-5 pm, West Lounge, Student Center

4-6 pm, 33-418*

4750 Kundalini Yoga: The Science Of Awareness 5-6 pm, second floor, Burton

4754 Winter School 6-10 pm, 407 Student Center; optional weekend trips.* Preregister by Dec 31.

4852 Hinterlands: Backgrounds And The African Environment: Abandonment, Investment, And Denominations Of State Politics To Desert-Prone Areas. 6-7:30 pm, W2A

4705 Improvisational Comedy Workshop 7-10 pm, Mezzanine Lounge, Student Center. Preregister by Jan 3

4765 The MIT Ballroom Dance Club Crash Course Swing III 7-10 pm, Sala de Puerto Rico, Student Center

5103 Pagan Students' Group 7-9 pm, location to be arranged

4753 Kayaking Classes 8-10 pm, Alumni Pool.* Preregister by Dec 5.

4900 What IS SDI All About?

4512 Assassin: Game Of International Espionage 12 midnight. Preregister by Jan 15.

8 Aerodynamic Design For High Lift 10-11 am, 33-422.* Preregister by Jan 13

9 Tethered Spacecraft: Fundamentals And Applications 10-11 am, 33-319

14 Hybrid Finite Element Methods 10-11:30 am, 33-319. Preregister by Jan 8.

127 Chemical Crystallography 10 am-12 noon, Norris Room, 18-290

455 Theory And Esthetics Of Tonal Harmony: An Overview 10 am-12 noon, 4-146. Preregister by Dec 16.

689 The Writing And Communication Center's Consultations 10 am-2 pm, 14N-317

864 How Am I Going To Make This? 10 am-12 noon, 37-664. Preregister by Dec 30.

1080 Tour Of The Francis Bitter National Magnet Laboratory 10 am-12 noon, NW14-2209

4461 Athena Development Directions Workstations And Window Systems 10-11:30 am, 34-101

4503 Great IAP Mystery Hunt 10 am, Lobby

2050 Everything You Always Wanted To Know About Manufacturing, Process Automation: The Real Story 10:30-11:30 am, 35-225

17 Restructurable/Reconfigurable Control 11 am, 33-419

103 Trends In Fossil Fuel Utilization: Implications To Combustion 11 am-12 noon, 66-110

255 Survival Russian In Six Hours 11 am-1 pm, 14N-313. Preregister by Dec 3 in 14N-207.

3006 History Of Navigation 11 am, 5-231

3138 Preparing For Pregnancy 11 am-12 noon, West Lounge, Student Center

4757 Yoga 11 am-12 noon, 10-340

2050 Everything You Always Wanted To Know About Manufacturing, Heuristics And Decision-Making For Manufacturing 11:30 am-12:30 pm, 35-225

229 Basic Television Concepts 12 noon-1:30 pm, 34-101

401 Biomechanics: How The Human Motor System Works And How To Fix It When It Doesn't 12 noon-1 pm, 3-133

1196 Feasting Twice 12 noon-2 pm, E51-017

582 Central America: Developing Alternatives To U.S. Foreign Policy Current Conditions In Central America 12 noon-2 pm, E52-321

2068 Niels Bohr Film Series 12 noon, E15-070

3083 Introduction To A Japanese Martial Art: Shorinji Kempo 12 noon-2 pm, dance studio

3139 The Year Of The Colon 12 noon-1 pm, West Lounge, Student Center

(New) Christian Faculty/Graduate Student Workshop 12 noon-3 pm, 491 Student Center

4435 Art Classes And Facilities At The Student Art Association History And Science Of Color 12 noon-1:30 pm, 407 Student Center

4655 Journal Writing Workshop n, 20C-116. Preregister by Jan 13.

4820 Vatican II: Renewal, Reform, Or Revolution? 12 noon-1 pm, 5-134

77 Swimming Stroke Analysis 1-3 pm, Alumni Pool

85 Complex Sugars And Blood Vessel Wall Disease 1-3 pm, 16-310

206 Careers In Economics 1-2:30 pm, E51-317

402 Theory And Computational Methods For Machine Dynamics 1-2 pm, 37-186.* Preregister by Jan 10.

625 A Brief Introduction To Management Overview Of Management And Management Education 1-3 pm, E51-329

686 Workshop On Engineering Writing: A Review **Session For Graduate Students** Chemical Engineering 1-4 pm, 38-136

50 Light, Color, And Vision 2-3:30 pm, 5-216

60 Expressive And Descriptive Watercolor: Techniques For Designers And Artists 2-5 pm, 7-404.* Preregister by Dec 12.

63 New Design: Sketches And Pixels 2-4 pm, computer resource lab, 9-551.* Preregister by Dec. 12 in 7-303.

452 Jazz Improvisation Workshop

4656 Introduction To New Testament Greek

4910 MIT Students For Individual Freedom

Wednesday, January 22

(Special) The Age Of The Photon Is Upon Us

526 Systems Engineering In Ship Design

84 Visit To Woods Hole Oceanographic Institution

576 Magnetometry With Superconducting Devices

634 Starting International Development Projects

657 Introduction To Microcomputers In Planning

686 Workshop On Engineering Writing: A Review

Mechanical Engineering and Civil Engineering:

855 The Cost Control In The Building Industry

4850 Computer-Based Laboratory Measurements

9 am-4 pm, W31-300. Preregister by Dec 10.

9 am-3 pm, 3-050. Preregister by Dec 13.

629 The Dynamics Of Social Systems

4803 Inspiration, Prophecy, And Law 9:30-11:30 am, W2A

(Special) The Age Of The Photon Is Upon Us

Overview Of Photon Sources And Applications

9 Tethered Spacecraft: Fundamentals And

61 Atriums: Building For People And Plants-A

108 How To Get A Job As A Chemical Engineer

151 Analytical Solutions To Transportation Problems

455 Theory And Esthetics Of Tonal Harmony: An

654 The Great Negative Income Tax-Welfare Reform

2050 Everything You Always Wanted To Know About

Manufacturing, Fifth-Generation Computing Technology And Its Promise For Design And Manufacturing

689 The Writing And Communication Center's

10 am-12 noon, 4-146. Preregister by Dec 16.

866 X-Ray Astronomy 10 am-12 noon, Marlar Lounge, 37-252

3005 Computer-Assisted Retrieval

3502 Nuclear Research Reactor Tour

4461 Athena Development Directions

Authentication And Network Services

10 am-12 noon, NW12-202. Preregister by day before.

4203 Images Of Science: A Video Exploration

4511 The First Annual SIPB Hack Tournament 10 am-5 pm, location to be arranged. Preregister by Dec 15.

inde Creating Finddein Sm

14 Hybrid Finite Element Methods 10-11:30 am, 33-319. Preregister by Jan 8.

9:30 am-12:30 pm, E51-136

9:45 am, 10-250

Applications 10-11 am, 33-319

Slideshow 10 am-12 noon, 3-133

10 am. 66-110

111 Laboratory Tours

127 Chemical Crystallography

10 am-12 noon, Norris Room, 18-290

10-11:30 am, location to be arranged

10 am-12 noon, 66-144

386 Infinite Series

Overview

10 am-12:30 pm, 4-270

Mystery 10 am-12 noon, 1-134

10 am-2 pm, 14N-317

Consultations

10-11 am, 35-225

10-11 am, 14-0551

10 am-12 noon, E51-218

10-11:30 am, 34-101

8-11 pm, location to be arranged

8 pm, location to be arranged

Prehistory Of The Laser

9 am-5:30 pm. Preregister by Jan 15

Session For Graduate Students

8-10 pm, 35-225

8-9 pm, 66-319*

4805 Talmud

9 pm, 13-2010

9 am. 10-250

9-10:30 am, 5-314

9 am-12 noon, 8-203

9-11 am, 1-132

Recommended 9 am-12 noon, 5-233

9 am-12 noon, E51-302

4571 Do-It-Yourself Electronics

106 Structuring A New Enterprise 2-4 pm. 66-319

564 The Program In Science And Technology For International Security 2-4 pm, 12-142

629 The Dynamics Of Social Systems 2-5 pm, E51-136

1162 Technical Text Formatting On Multics: Part One 2-4 pm, 1-39

2059 Laboratory For Nuclear Science And Physics Department Lecture Super Strings: The Theory Of Everything??? 2 pm, 4-149

3010 Music Library Concert Series Math Department Recital 2 pm, Music Library, 14E-109

4207 Technology And Science Journalism: Toward Definitions 2-4 pm, E51-125

4558 Inside R/O 2-4 pm, Center Lounge, Student Center

4703 Israeli Folk Dance For Beginners 2-3 pm, 407 Student Center

4855 Acoustics Of The Violin 2-3:30 pm, 4-249

5102 Quasquicentennial Celebration 2-3:30 pm, 14S-334

755 The Animals Film 2:30 pm, 54-100

2050 Everything You Always Wanted To Know About Manufacturing, Lazy Robots: Creatures That Like To Lean On Things 2:30-3:30 pm, 35-225

125 Tour Of Picosecond And Femtosecond Spectroscopy Lab 3-4:30 pm, Amdur Room, 6-233

152 Seminar Series On Arctic Offshore Engineering Constitutive Models For Sea Ice 3-4:30 pm, 1-350

4202 Negotiation Games In Architectural And **Engineering Design** 3-5 pm, E51-004

158 Fracture Mechanics In Civil Engineering 3-4 pm, 1-350 (first meeting)

227 Plex 3-5 pm, 34-401A

630 Sloan School Faculty Open House: Franco Modigliani 3-4:30 pm, Schell Room, E51-332

656 Planning, Organizing, And Questions Of Power 3-5 pm, 1-13

4812 Science And Religion: Issues 3-4 pm, V

4914 The Discarded People: Food Crisis In South 3-4:30 pm, Center Lounge, Student Center

776 Things You Can Do With A Technical Degree **Besides Hands-On Technical Work** Management Consulting 4 pm, 4-153

1046 Mr. And Mrs. Right: Do They, Or Will They, Ever 4-6 pm, Mezzanine Lounge, Student Center

1054 Beguiling And Bewildering Physics 4-5 pm, 24-612

4100 Operations Research In The Real World 4-5 pm, E40-29

4854 Electrical Noise: Sources, Transmission,

582 Central America: Developing Alternatives To US

4853 Nanotechnology Lecture Series

4-5 pm, West Lounge, Student Center

Consequences, Elimination

Foreign Policy In The Name Of The People (film)

4710 Dancing In Red Sneakers

5 Space Station Activities Series

222 Build Your Own Computer 7-8:30 pm, 34-101.* Preregister by Jan 7.

The US Space Station Systems Laboratory 7 pm, 37-212

Genetic Engineering

4 pm, 3-133*

4:30-6 pm, 10-250*

6-7:15 pm, 1-125

Tuesday, January 21

176 Tour Of Woods Hole Oceanographic Institution

628 Undergraduate Management Game 9 am-5 pm, E53-311.* Preregister by Dec 9.

657 Introduction To Microcomputers In Planning

686 Workshop On Engineering Writing: A Review Session For Graduate Students Mechanical Engineering: Required 9 am-12 noon, 5-233

686 Workshop On Engineering Writing: A Review Session For Graduate Students Electrical Engineering and Computer Science 9 am-12 noon, 38-136

855 The Cost Control In The Building Industry 9 am-4 pm, W31-300. Preregister by Dec 10.

629 The Dynamics Of Social Systems 9:30 am-12:30 pm, 2-5 pm, E51-136

2050 Everything You Always Wanted To Know About Manufacturing, Manufacturing Technology Around The Globe: Who's On The Ball? 9:30-10:30 am, 35-225

4756 Cross-Country Ski Trip 9:30 am-5 pm, New Ipswich, NH. Preregister by Jan 17.

4206 Science On The Airways 9:30 am-12 noon, E51-125

686 Workshop On Engineering Writing: A Review Session For Graduate Students Civil Engineering: Required 1-4 pm, 5-233

1150 Introduction To The PC Family 1-3 pm, 3-343

3140 Rape Awareness And Prevention 1-3 pm, West Lounge, Student Center

4437 Quilter's Exchange 1-2 pm, 66-148. Preregister by Dec 30.

16 Robust Multivariable Control; Fault-Tolerant Systems 1:30-3:30 pm, CSDL Simulation Lab. Preregister by Jan 14 with Dr. David Burke.

2050 Everything You Always Wanted To Know About Manufacturing, Design Of Robot Manipulators For Industrial Applications 1:30-2:30 pm, 35-225

(New) Using The S Statistical Package for Data Analysis, Graphics, and Matrix Calculations 1:30-2:30 pm, E40-153

4201 What Should A University Be? MIT in 1986 And Beyond The Military Influence On MIT: How Much And Why Should I Care, Anyway? 2-4 pm, 4-145

6 Highlights Of Aeronautics And Astronautics Adventures Of An Aeronautics Engineer In The Real World 2-3 pm, 33-206

325 Women In Crime Diabolique 7 pm, 66-110

757 Snake Handling For Real People 7-10 pm, NE43, eighth floor playroor

1079 The Magnetic Monster 7-9 pm, NW14-2209

4277 Health Effects Of Fish Oil 7 pm, E38-302

4607 Are You A Chinese-American? Why Or Why Not?

4700 Winterliederfest 7-9 pm, 14N-313

4810 How To Answer A Cultist And Other New Testament Topics 7-8 pm, 66-319

4814 The Baha'i Faith: A New View Of Religion Are Science And Religion Incompatible? 7-9 pm, West Lounge, Student Center

4908 Gay/Straight Rap 7-10 pm, Mezzanine Lounge, Student Center

4911 Marriage And Parenting From A Biblical Perspective 7-9 pm, 3-133*

755 The Animals Film 7:30 pm, 54-100

4566 Build Your Own Speakers 7:30-9 pm, 12-122*

4652 Yiddish 10 am-12 pm, W2A.* Preregister by Dec 20.

4711 Appalachian Dulcimer Playing 10 am-2 pm, 24-612

(Special) The Age Of The Photon Is Upon Us Semiconductor L 10:30 am, 10-250

233 Space Charge Effects In High Field Conduction 10:30 am-12 noon, High Voltage Research Lab, N10-220

17 Restructurable/Reconfigurable Control 11 am, 33-419

180 Current Problems In The Earth Sciences Submarine Hot Springs 11 am, 54-100

355 Problems In Materials Economics 11 am-1 pm, 13-5002*

528 Ship Design Competition 11 am-12 noon, 5-314

2050 Everything You Always Wanted To Know About Manufacturing, Consulting In Manufacturing 11 am-12 noon, 35-225

3141 Abortion: The Steps Involved 11 am-12 noon, West Lounge, Student Center

(Special) The Age Of The Photon Is Upon Us Short Pulse Laser 11:15 am, 10-250

Tech Talk, January 15, 1986, Page 5

229 Basic Television Concepts 12 noon-1:30 pm, 34-101

253 Introducing German Television Geisler 12 noon-2 pm, 14N-225

890 Finding A Summer Camp For Your Child 12 noon-1 pm, 4-149

3083 Introduction To A Japanese Martial Art: Shorinji Kempo 12 noon-2 pm, dance studio

3142 Images Of The Enemy 12 noon-1 pm, West Lounge, Student Center

4661 Media Myths And Manipulations 12 noon, 37-212

4819 Adam, Eve, Izanagi, And Izanami: Creation Accounts Of The Mid East and Far East 12 noon-1 pm, 441 Student Center

4820 Vatican II: Renewal, Reform, Or Revolution? 12 noon-1 pm, 5-134

582 Central America: Developing Alternatives To Foreign Policy Human Rights in El Salvador and Nicaragua 12 noon-2 pm, E52-321

4821 Videotape Sessions On Islamic Teachings 12:30 pm, 3-133

83 The Konchenjunga: Nepal 1985 1-2 pm, 16-310

111 Laboratory Tours 1-3 pm, 66-144

402 Theory And Computational Methods For Machine Dynamics 1-2 pm, 37-186.* Preregister by Jan 10.

453 IAP Choru 1-2:30 pm, 2-190.* Preregister by Jan 1.

563 Physics Flicks The Relation Of Mathematics To Physics 1 pm, 6-120

568 Tour Of Haystack Observatory 1-5 pm, meet in lobby 34

625 A Brief Introduction To Management **Financial Markets And Financial Management** 1-3 pm, E51-329

655 Reconstruction In Mexico City: A Workshop 1-5 pm, N52-492

802 Cuisine Japanese (How To) 1 pm, Moore Room 6-321

803 Midgetman: A New ICBM 1-2 pm. CIS Seminar Room I. E38-615

863 Voyager Encounters Uranus: The JPL Press Conferen 1-3 pm, Marlar Lounge, 37-252

3008 Latin American Experiences 1 pm, Baker Engineering Library Conference Room

3143 Domestic Violence: The Truth About Wife Battery 1-2:30 pm, West Lounge, Student Center

4150 Cogeneration At MIT? 1-2 pm, 66-144

Jan 14 with Dr. David Burke

4326 Lies, Damn Lies, And Statistics 1-2 pm, E40-153

4806 Jewish Lab 1-2 pm, W2A

(Special) The Age Of The Photon Is Upon Us Fiberoptics 1:30 pm, 10-250

16 Robust Multivariable Control; Fault-Tolerant Systems 1:30-3:30 pm, CSDL Simulation Lab. Preregister by

477 New Radioactive Source Term Information: A Reduction In Concern For Nuclear Power Plant Accidents 1:30-4 pm, 24-115

(New) Some Main Problems Of Philosophy What Is Truth? 2 pm, 37-212

6 Highlights Of Aeronautics And Astronautics Testing Jet Engines: Why It Takes All The Money In The World 2-3 pm, 33-206

59 Artificial Intelligence In The Field Of Architecture 2.5 pm, 3-133

379 Real Simple Lie Algebras 2-3 pm, 26-310

564 The Program In Science And Technology For **International Security** 2-4 pm, 12-142

629 The Dynamics Of Social Systems 2.5 pm, E51-136

4207 Technology And Science Journalism: Toward

356 Laser Engineering: From Crystal Growth To Laser 3-4 pm, 13-3101

750 Delivering True Artificial Intelligence 3-4 pm, 4-163

(Special) The Age Of The Photon Is Upon Us Light And Chemistry 3:15 pm, 10-250

4709 Magic: Intermediate-Advanced 3:15-4:30 pm, W2A

(New) Spanish Tertulia 3:30-5:30 pm, McCormick country kitchen

202 Modigliani On Economics 3:30-5 pm, E51-329

4712 Dance Workshop Guest Instructor Series 3:30-5 pm, Walker 201

(New) The Retirement Of Speaker Of The House Tip O'Neil And How It Affects The Educational Community 3:30-4:30 pm, Bush Room

(Special) The Age Of The Photon Is Upon Us

Lasers In Medical Diagnosis And Therapy 4 pm, 10-250

3 Private Pilot Ground School: Airplane And Glider 4-6 pm, 33-419*

4 Instrument Pilot Ground School 4-6 pm, 33-418*

4101 Student Workshops In Operations Research 4-5 pm, E40-29

4425 The New Scholarship On Women: The Impact **On Five Disciplines** History 4-5 pm, Humanities Library

4853 Nanotechnology Lecture Series Super Materials

4-5 pm, West Lounge, Student Center 582 Central America: Developing Alternatives To US

Foreign Policy Turmoil And Flight: Central American Refugees And The U.S. Sanctuary Movement 4:30-6 pm, 4-270*

(Special) The Age Of The Photon Is Upon Us Laser Light Shows (with demonstrations 4:45 pm, 10-250

4754 Winter School 6-10 pm, 407 Student Center; optional weekend trips.* Preregister by Dec 31.

(New) Science Action Coordinating Committee Revival 6-8 pm, 4-249

25 Ancient Egyptian Technology 6:30 pm, Museum of Fine Arts*

(New) Ultimate Frisbee 7-10 pm, New Athletic Center, second floor

56 Phenomena: In Search Of Chinese Art Form The First Empire Of China: A Problem In Visual Data Base Design 7-9 pm, Edgerton Lecture Hall, 34-101

458 Films About Music Opera 7 pm, 66-110

726 Getting The Job You Want In Industry: A Women's Guerrilla Guide To The Pin-Striped World 7-9:30 pm, 10-105*

3001 The Chemical Information Maze: How To Beat It The Mazebuster: Computerized Chemical Information 7-8 pm, Science Library, Map Room

5113 Ham Exams 7 pm, 1-134

4436 Quilting For The Beginner 7:30-9:30 pm, MacGregor seminar room 1.* Preregister by Dec 15.

4566 Build Your Own Speakers 7:30-9 pm, 12-122*

4611 Media In Contemporary India Government-Owned Media: Distortions And Reality 7:30 pm, 4-231

4759 Roller Skating 7:30 pm, du Pont gym

1 In Celebration Of The Pioneers And Voyagers: To Jupiter, Saturn, Uranus, And Beyond 8 pm, 26-100

753 Algorithmic Probability And Universal Problem Solvers 8 pm, floor 7, NE-43

4813 Scientific Cosmogony And Biblical Creation 8 pm, 9-150

New Listings

In Search Of Excellence Coleen V. Barry, Douglas S. Smith Thurs, Jan 9, 16, 10 am-12 noon, E51-311 Example of PLEX in action. What meaning means. How models model. Insights on insight, which show that the meaning of an SADT model is the subject being modeled, itself. Sponsor/contact: D. T. Ross, NE43-437, x3-6900

630 Sloan School Faculty Open House

Thurs, Jan 16, 10 am-12 noon, E52-554

Thurs, Jan 16, 3-4 pm, E52-582

Tues, Jan 21, 3-4:30 pm, E51-332

Mon, Jan 27, 9-11 am, E53-335

John Henderson and Michael Scott Morton Tues, Jan 28, 10:30 am-12 noon, E52-598 (complete sched-

Workshop in Chinese Papercutting, 10-11 am; The Republic Of China Builds For Tomorrow, 10-2 pm; Life In The Republic Of China, 10 am-2 pm

(New) Some Main Problems Of Philosophy

4712 Dance Workshop Guest Instructor Series Fri, Jan 17, 3:30-5 pm, T-Club Lounge, Wed, Jan 22, 3:30-5 pm, Walker 201, Fri, Jan 24, 3:30-5 pm, T-Club Lounge (location, time)

4175 Plasma Fusion Center Seminar Series Ion Bernstein Wave Heating Experiments on PLT

Assassin: The Game Of International Espionage

Mon, Jan 20, 12 midnight. Preregister by Jan 15. (sched-

4201 What Should A University Be? MIT In 1986 And

The Military Influence On MIT: How Much And Why

How Can Students Have A Voice In Setting University

Thurs, Jan 16, 9:30 pm-12:30 am, second floor, Student

Thurs, Jan 23, 9:30 pm-12:30 am, second floor, Student

Comedy Night Thurs, Jan 30, 9:30 pm-12:30 am, second floor, Student

Wed, Jan 22, 10 am-12 noon, Marlar Lounge, 37-252 (new

Wed, Jan 22, 10 am-12 noon, E51-218, Mon, Jan 27, 9 am, E51-218, (full day's shooting) Wed, Jan 29, 2-4 pm, E51-218

4206 Science On The Airways Tues, Jan 21, 9:30-12 noon, E51-125 (time change); Wed,

582 Central America: Developing Alternatives To U.S. Policy

Human Rights In El Salvador And Nicaragua (seminar

Turmoil And Flight: Central American Refugees And The

Current Conditions In Central America (seminar)

Tues, Jan 21, 12 noon-2 pm, E52-321

In The Name Of The People (film)

Wed, Jan 22, 12 noon-2 pm, E52-321

U.S. Sanctuary Movement (presentation) Wed, Jan 22, 4:30-6 pm, 4-270

Tues, Jan 21, 4:30-6 pm, 10-250

4203 Images of Science: A Video Exploration

180 Current Problems In The Earth Sciences Submarine Hot Springs Wed, Jan 22, 11 am, 54-100 (subtitle changed)

4202 Negotiation Games In Architectural And Engineering Design Tues, Thurs, Jan 21, 23, 3-5 pm, E51-004 (new date, loca-

Should I Care, Anyway? Tues, Jan 21, 2-4 pm, 4-145 (time change)

Mon, Jan 27, 2-4 pm, 4-145 (time change)

Fri, Jan 17, 4 pm, NW17-218 (new sublisting)

Nicholas Mailuf

Deborah Gladstein

Franco Modigliani

5112 Midnite Movies

Prime Of Miss Jean Brodie

Sat. Jan 18, second floor, Student Center

(New) Chinese Cultural Festival

Is It Possible To Travel Back In Time

Fri, Jan 17, 2 pm, 37-212 (new date)

ule arranged)

Beyond

Policy?

tion)

Skin

Center

The Ritz

Center

date)

5111 Strat's Rat

Center (subtitles added)

(new dates, location)

Jan 22, cancelled

866 X-Ray Astronomy 1962-2009

Fri, Jan 17, Bush Room, 10-150

Tony Wong

ule)

Science Action Coordinating Committee Revival Rich Cowan, Seth Tuler, Scott Saleska Wed, Thurs, Jan 15, 16, 29, 12 noon-2 pm, Jan 22, 23, 6-8 pm, 4-249

Discussion group on political issues involving MIT, such as SDI, Project Athena, curriculum reform, "institutional endorsement," and political apathy/alienation. Sponsor: Louis Menand III. Contact: Rich Cowan, 497-0870.

Epilepsy Linda Buchwald

Thurs, Jan 16, 2-3 pm, 4-163 Epilepsy, patient care, the doctor-patient relationship, and latest advances in drug therapy. A videotape of a channel swim by a seizure-free individual will be shown. Sponsor: Medical Department. Contact: Constance Bean, x3-1316

Chinese Cultural Festival Fri, Jan 17, Bush Roe m. 10-105

Exhibition Of Chinese Antique Arts 10 am-3:30 pm

Introduction To Chinese Acupuncture 12 noon-1 pm

Workshop Of Chinese Papercutting 11 am-12 noor

The Republic Of China Builds For Tomorrow: Ten Major Construction Projects (slideshow) 10 am

Life In The Republic Of China (slideshow) 2 pm

A Visitors Guide To Taiwan, Republic Of China (slideshow) 3 pm

The Pioneers (film) 7:30 pm, 10-250

Tells of a legendary man immigrating to Taiwan in the 18th century, devoting (and losing) his life to digging an oil well, the first of its kind in Taiwan. Early immigrants from China mainland truly presented. Free.

Quilt And Needlework Display And Workshop Fri, Jan 17, 12 noon-5 pm, Map Room, Hayden Library, 14S-100

Bring needlework skills or family heirlooms for exhibi-tion. Persons to demonstrate particular stitchery encouraged. Special invitation to join old-fashioned quilting bee. Supplies and instruction provided. Sponsor: Libraries and Women's League. Contact: Nancy Whitman, 235-6040, or Beth Harling, 749-4077.

APO Open House Tamar More Fri, Jan 17, 2-5 pm, W20-407

Meet the members of APO, find out about service around

MIT and community, maybe paint posters or make can-dles. Eat food and be merry. Sponsor: Alpha Phi Omega Contact: Tamar More, 4 Ames St., x5-6111.

(New) Play War On The Chipmunks Stewart Clamen Sun, Jan 19, 12 noon, 34-501. Preregister by Jan 16.

WAR is an interactive, real-time, tank-battle game which links players and chipmunks (6.001 computers) together in an exciting format. Teams of two people will compete in the Second Annual Tournament, and we will experiment with larger groups as well. Sponsor/contact: Ste wart Clamen, MacGregor D223, x5-9379.

(New) Christian Faculty/Graduate Student Workshop Fri, Jan 21, 12 noon-3 pm, 491 Student Center

Videotapes and discussion on ways to share Christian faith in academic environment. Bill Bright, president of Campus Crusade, will lead discussion with two professors.

Using The S Statistical Package For Data Analysis Graphics, and Matrix Calculations Alan Zaslavsky

Tues, Fri, Jan 21, 24, 1:30-2:30 pm, E40-153

An introduction to the Unix-based S system for potential users. Sponsor: Alan Zaslavsky. Contact Alan Zaslavsky or Robert Busconi, E40-111, x3-8722.

MIT And Military Research From World War II To Vietnam: A Scientific Arsenal Of Democracy? Rich Cowan, Seth Tuler, Scott Saleska Wed, Jan 22, 3-4:30 pm, 8-105

Presentation and discussion on Lincoln and Draper labs

and their work on SABRE radar, gunsights, missile guid-ance, MIRV, ABM, MTI, and the space program. Sponsor:

Disarmament Study Group. Contact: Chris Linn, x5-9692

Margery Resnick Wed, Jan 22, 3:30-5:30 pm, McCormick country kitchen

There will be a special two-hour session for those inter-

ested in speaking spanish. This social event will include

listening to music, playing games, and falking in a re-laxed atmosphere. Snacks will be served. Sponsor/ contact: Margery Resnick, x3-5277, Douglas Morgenstern,

2-4 pm, E51-125

4208 Controversy In Cambridge: Video Documentation Of Laboratory Safety Disputes 2-4:30 pm, E15-054B

4459 Tooling At Tech: An Interactive Computer Game 2-4 pm, 66-080

4708 Magic For Beginners 2.3 pm, W2A

(Special) The Age Of The Photon Is Upon Us sers And Atomic Physics 2:15 pm, 10-250

(New) MIT And Military Research From World War II To Vietnam: A Scientific Arsenal Of Democracy 3-4:30 pm, 8-105

10 Seminar Series On The History Of Aeronautics 3-5 pm, 33-319

152 Seminar Series On Arctic Offshore Engineering Ice Forces On Arctic Structures: Part I 3-4:30 pm, 1-350

227 Plex 3-5 pm, 34-401A

285 Social Conflict: Ten Historians View Its Causes And Nature The Revolution Of 1905 In Russia 3-4:30 pm, 2-190

Page 6, Tech Talk, January 15, 1986

Videotape presentation of In Search of Excellence: a c densed version of the PBS series, based on the best-selling book. Sponsor: Society of American Military Engineers. Contact: Richard J. Kury, 20E-1, x3-4471.

4712 Dance Workshop Guest Instructor Series Mon, Wed, Fri, Jan 13-17 3:30-5 pm, T-Club Lounge. Wed-Fri, Jan 22-24, 3:30-5 pm, T-Club Lounge (time)

Motions And Deformations Of Tectonic Plates By Very Long Baseline Interferometry Thomas H. Jordan Thurs, Jan 16, 9 am-4 pm, Haystack Observatory

Excursion to Haystack Observatory will focus on precise position determinations of large radio antennae and use in measuring plate motions and deformations. Transpor tation and lunch provided. Sponsor: Earth, Atmospheric, and Planetary Sciences Department and Haystack Ob-servatory. Contact: Thomas H. Jordan, 54-518, x3-3589.

A Community Mental Health Resource for Women Hyatt Imam

Thurs, Jan 16, 12:30-2 pm, 4-163

A representative from the Elizabeth Stone House, a mental health facility run by and for women, will discuss women and mental health. Powerful video will be shown. Sponsor: Medical Department. Contact: Constance Bean, E23-205, x3-1316.

Aikido Dick Stroud Jan 6-31, 5:30-6:30 pm, exercise room, du Pont

Aikido is a Japanese martial art with emphasis on central term, ki, or centeredness. Non-competitive and pri-marily defensive. Sponsor/contact: Dick Stroud, x3-7019.

Why SADT Works Douglas T. Ross Thurs, Jan 16, 1-3 pm, 4-270 Some Main Problems Of Philosophy

Prof. George Boolos What Is Truth? Wed, Jan 22, 2 pm, 37-212

Changes

Spanish Tertulia

x3-3061.

64 Chair Design Workshop/Competition Cancelled

75 Trick Roping Cancelled

808 Review Of Basic Math And Microeconomics Thurs, Jan 9, 16, 23, 30, 2-4 pm, E38-615 (schedule ar ranged)

325 Women In Crime

Out Of The Pasi Thurs, Jan 16, 7 pm

Diabolique Tues, Jan 21, 7 pm, 66-100

The Trojan Women Thurs, Jan 23, 7 pm, 66-110 (dates and film titles)

2059 Laboratory For Nuclear Science And Physics **Department Lecture Series**

Leptons, Quarks And Other Particles Of Nature Prof. Richard Yamamato Fri, Jan 17, 2 pm, 4-145

An exhibition of 102 prints by photographer Minor White will be on view at the MIT Museum until March 29.

White photos shown

This is part of a series of great American photographers being shown at the Museum this academic year, beginning with Berenice Abbott this past fall and continuing in the spring with Ansel Adams, April 8-June 30.

The White exhibition was developed by the Philadelphia Museum of Art and covers his career from its early days in the late 1930's until 1968, or the beginning of his MIT career. Mr. White came to MIT in 1965 and taught photography here until his death in 1976.

Ansel Adams described his fellow photographer as "one of the greatest." Continuing, he said, "I do not make this statement lightly. The extraordinary dignity of his work is, for me, the first impact-reaction. The next reaction is to the creative-craft: the sheer beauty of the medium of photography tuned to the exact meaning and feeling of the visualized image... These great photographs live for themselves and for us.

In a statement about his work, Mr. White said: "Surfaces reveal inner states-cameras record surfaces. Confronted with the world of surfaces in nature, man and photographs, I must somehow be a kind of microscope by which the underlying forces of spirit are observed and extended to others.

CLASSIFIED ADS

Tech Talk ads are intended for per and private transactions between members of the MIT community and are not available for commercial use. The Tech Talk staff reserves the right to edit ads and to reject those it deems inappro-priate. MIT-owned equipment may be dis-posed of through the Property Office, x3-2776

INSTRUCTIONS: Ads are limited to one (of approximately 30 words) per per-son per issue and may not be repeated in successive issues. All must be accom-panied by full name and extension. Perns who have no extensions or who wish sons who have no extensions of 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

Upr piano, exc cond, \$500; Sanyo wshr, \$120; Silver-Reed typwrtr, nw, \$150; Panasonic 10" colr tv, \$120. Michael, x3-7826 or 494-8139.

Minolta X-1 bdy (same as XK) w/AE findr, PN focusng screen, ownr's mnl, v gd cond; Vivitar 28mm F2.0; Minolta 200mm F4.0; bth lens in mnt cond, prctclly nvr usd, all for \$300. Haim, x3-5934 or 494-0184.

4 wded acres in Wakefield, NH, 200' frm wtr, deeded beach rights, askg \$14,000. Call 592-7843 aftr 6p m.

2 lrg sq end this & mtchng cocktail thi oak veneer finsh, \$200. Pat, x8-3513 Draper.

Magnavox 19" colr tv w/elctrnc tuning, \$75. Call 739-2519.

10' formica countertop, 12' wall & bttm ktchn cabnts, gas range/stv, dshwshr, exc cond, \$1,300 or bst. Call x3-2449. shr, all

Drssr, lmp, bookshlf, chr, vac clnr, qlty not gd but priced v cheap. Scott, x3-5502 or 267-1732.

Canaries, hi qlty singing M's, \$45; F's (don't sing), \$25; Braun coffee grndr w/bean hoppr, \$38. Diana or Lenny, 321-3961, 6-10pm.

Lrg Scandinvn elegnt DR tbl & 6 chrs, exc cond, nw \$2,100, askg \$700; full-sz Sealy Posturepedic mttrss, bx & frm, \$190. Call 969-9106.

Sony remote 13" tv, \$260; rugs, \$20-40; tv stnd, \$30; book shlf wall unit, \$40; vac clnr. \$40. Call 494-8331.

Persn Orientl, 3' 8" x16' 2", antiq, \$350; 2 silvr cndlestcks, 12", \$75; Singer sewng mach, \$150; Westinghouse sewng mach, bth w/tbls, \$85; 2 twn mttrs w/bx sprs, \$20; SMC elec typwrtr, \$25; SMC mnl typwrtr, \$15; Swedish lthr dsk chr, \$50; blck swivl dsk chr, \$15; easy chr, \$45; nw rllr skts, sz 7-9, \$10; tbls & miso furn, cheap. Call x3-3175 or 332-8251.

W's ski boots, sz 8 med, wrn only 1X, \$30. Ann, x3-0008.

Gateleg tbl, dk wd, 35x48" open, \$125. Charlene, x3-8902 or 492-4364

Wshng mach, take it away & it's yours, nds rpr. Don/Juli, Student House, x3-3157.

Sleep sofa, no mttrss, \$10; foam mttrss, Q sz w/cvr, \$20. Tom, x3-3020 or Eileen. 576-6542

V comfy reclining chr, v gd cond, \$60; elegnt mod unusd rosewd cffee tbl, \$225 (was \$459, decided to use teak), can delvr. Cynthia, x3-8982.

Zenith 19" colr tv, exc cond, \$175; Washburn Stratcaster elec guitr w/case, \$275; Epiphone acoustc guitr, grt in-tonatn, wrm sound, \$200 w/case. Michael, x3-3525

Sgl tckts for Gewandhaus Orch (Brahms) 3/2, \$14; Bavarian Symphony Orch (Mozart & Berlioz), 4/25, \$14; Juilliard String Quartet (Beethoven), 5/2, \$11; Boston Chamber Music Society, 1/19, 3/2, 3/23 & 4/20, \$7 ea. Jim, x3-3751 or

'77 Chrysler Cordoba, 77K, a/c, sunrf, ps, pb, pwr wndws, nw trs, brks & mch more, have all recpts, gd cond, \$1,500. Blair, x3-7830 or 738-1767 eves.

'77 Kawasaki KZ400, 2 cyl, 4 stroke, red, only 11K, 50-60mpg, mst see. Call x4902 Linc or 584-6279 eves.

'78 Plymouth Fury, gd cond, AM/FM/cass stereo, 70K, a/c, ps, pb, \$650 or Carolyn, x3-5211.

'79 Ford Fairmont, 4 cyl, 4-dr, auto, ps, no rst, no dnts, nw batt, brk, & eng, jst replcd 1/86 3-mo guarnty, avlbl 2/10, \$2,000. Sakamoto, x3-0761 or 646-4708.

'79 Mercury Cougar, auto, a/c, ps, pb, AM/FM/cass stereo, 44K, exc cond, \$3,900 or bst. Rose, x3-4263 or 547-4647 eves.

'79 Peugeot, exc rnning cond v lttl surface rst, bdy & frm exc, \$2,500; '74 Plymouth Valiant, gd rnning cond, some rst spots, \$450. Call 527-9110.

'79 Ford Pinto, std, nds wrk, \$750 or bst. Denise, x3-6286

'79 Buick Skyhawk, ps, pb, rear wndw defog, AM/FM stereo, nw muff, gd trs, bdy in gd cond, \$2,300 or bst. Call 846-1656 aftr 6pm.

'79 Chevy Nova, no rst, xtra pr of trs, ski rck, fctry a/c, \$1,400. Greg, x3-4816 or 396-8873.

'80 VW Jetta, 4-dr, silvr, exc cond, 60K, a/c, stereo, loaded, \$3,450 or bst. George, x4732 Linc.

'81 Mustang, exc cond, blue, 4-spd, 4 cyl, AM/FM, rad snw trs on sep rims, only 30K, \$3,900. Sally, x7110 Linc o

'82 Toyota Starlet htchbck, 5-spd, 34K. exc cond, rstprf, AM/FM/cass stereo, all wthr trs, rear wndw defog & wipr, gas savr, 1 ownr, askg \$3,900. Call x3-7142 AM or 648-2399 aftr 7pm.

'82 Honda Accord, 4-dr, 5-spd, 47K, v cln, exc cond, \$5,000 or bst. John, x8-4290 Draper or 577-8922.

Housing

Allston, 1-2BR apt in 2-fmly hse avlbl 2/1, pets ok, pref married cpl, short commute to MIT by car or T. Barbara, x3-1757 or 254-2513 or 787-1874.

Malden, Fellsway, 3BR, tile bath, sunprch, w/w, w/d hook-up, on T, easy access to 93, 10 min to MIT, \$700+ utils. Gina, x3-5124 or 321-6420.

Ctrl Sq Cambridge, lrg 1BR sublt, 2/1-4/1, fully furn, \$400/mo inc utils, 15 min wlk to MIT & Hrvd. Call 492-3014, lv mssg, I'm out of town 'til 1/20.

Arlington rntl, spacious renovtd 3BR, 2b apt, nr Ctr, begin 3/1, take my lease, \$825+ utils. Call 646-8813 7-8pm or wkends.

Medford, 3/4BR hse nr MTA & shps, 6 mi frm Boston, lvingly rstrd, ntrl wdwrk, ampl closts & storage, lrg prch, lrg mstr BR, lndry rm 1st flr, gas fhw ht, 220 elec, prkg, askg \$180,000. Call x3-0595 or 395-4979 eves.

5 rms cmpltly renovtd, frnt & bck prch nw htng sys, nice area, no pets, refs rec \$750/mo+ utils. Call x4503 Linc o 332-7152 aftr 6pm.

Wanted

Sofa bed, mst be in exc cond, & of to qlty. Anne, x3-7494.

Adlt spkrs of Japanese for listening & speakng experimt in English, will pay, lttl time nded. Suzanne, x3-7821, Tom, x3-5957 or ly mssg x3-4771.

Data General One cmptr for short period (1-2 days), pref (but not ncssry) w/attchbl 5¼" dry or trmnl sftwr, financial comp possbl. Les, x3-6903 or 494-9084 eves.

Vistng prof frm Paris w/3 chldrn sks sabusng, 9/86-6/87. Prof John Negele, hatel h x3-7077

Lost and Found

Lost: Lady's lt br wallet w/irreplaceable family pictures in vic Student Ctr Friday, Jan 10. Generous reward, no ques asked. x3-5614 or 497-566

Roommates

Quiet, rspnsbl grad/prof wntd for lrg 2BR mod Back Bay apt, D/W, w/w, garbg dspsl, rf dck, gd view, \$430+ utils. Maria, 353-0712 eves

To shr lrg btfl Belmont apt nr Fresh Pond, frplc, view of Bos, quiet st, drvway, nr T, own BR & stdy, furn if desird, envelope so marked. Always reference case number on envelope. MIT reserves the right to reject any and all bids.

Case 1508 - For sale by sealed bid. Bids to be received by 4pm EST, Jan 31, 1986. To inspect call Joseph Colaggero, x3-3771: Gould & Eberhardt 16-20" industrial versal shaper

Case 1611: Technicon recorder; Technicon colorimetr; CVC gauge; Steelcase desk; thermal regulator; Precision Scient vacuum pump; Cenco oven; Despatch in cubator; Elconap incubator.

Case 1615: Kodak microfiche reader printer, mdl 404A; Kodak microfiche processor, mdl 404C.

Case 1618: Steelcase desk.

Case 1631: NRC vacuum pump, mdl 30S. Case 1632: 10-drwr storage cabinet.

Case 1635: Glenco 2-dr fridge; desk w/typewrter extension; chalkboard; recep-tion rm tbl w/chrs attached.

Case 1636: Corning water still; Radiometer Ph meter, mdl 28; Voland analytical balance.

Case 1637: Bessler photo dryer, mdl 1620; Arkey photo dryer, mdl 150

Case 1638: Christian Becker balance, 200G; Hamner timer; Centronics printer.



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.

This list includes all nonacademic jobs currently available on the MIT campus. Duplicate lists are posted outside the offices of the Special As-sistant (10-215) and in the Personnel Office (E19-239)

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

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

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

	Ken Hewitt	3-4267
i.	Dick Higham	3-4278
	Virginia Bishop	3-1591
٩.	Appointments:	
	Therese McConnell	3-4274
	Oveta Perry	3-1594
	Kenneth W. Chin	3-4269
	Sally Hansen	3-4275
	Appointments:	3-4268
	Maureen Howard	3-4268
	Kim Bonfiglioli	3-4076

Nancy Collins 3-4077

Analyst Programmer III, Office of Facilities Management Systems, to parti-cipate in the ongoing maintenance, documentation and enhancement of INSITE 3, an MIT-developed facilities data base system written in PL/1 and running on IBM's OS/VS 1 operation system. Will analyze user systems problems to deter-mine needs, develop external specifica tions for new computer programs or modifications and enhancements to the present systems, ensure testing of new or modified programs, and release documen tation according to prevailing standards. Must prepare scheduling and time load mates for tasks assigned, insuring ing est their proper execution, act as an applica-tion programmer, and interpret systems to users assuring understanding of systems and their use. General supervision will be received from the Technical Supervisor. A Bachelor's degree or equiv of education and expe rience is required. Two to four years expe rience programming PL/1 is required as is familiarity with advanced data structure concepts and on-line editing systems. Knowledge of IBM's CMS, TSO and OS/VS1 and JCL is extremely desirable. A86-661 Analyst Programmer I, Office of Facilities Management Systems, to trans-late external specifications for a variety of MIT-developed facilities management programs. Will also translate external speci fications into internal program specifica tions for new or modified programs; write pseudo code, program, test and debug computer programs in C language; document new programs or changes in ex isting programs as per the Office of Facilities Management System's standards that will be taught. Additionally assist users with program problems and answer questions; and attend classes, seminars and the like to develop and maintain know-how in programming. Supervision will be received from the Technical Supervisor. A Bachelor's degree or equivalent combination of education and experience is necessary, while a com uter science background is extremely esirable. Reasonable experience in computer programming is necessary, and fa miliarity with IBM microcomputers helpful. A86-660

munications system. Will be the ad-ministrative and control data administrator for Telecommunications systems and implement special projects as desig-nated by the Director. A Bachelor's degree in Telecommunications or Infor-mation Systems-Computing is required. 1-3 years related work experience in telecommunications or information systems-computing preferred. Good com-munication skills both written and oral are required. A85-656

Property Auditor, Property Office, to conduct physical inventories of all accountable equipment located at MIT. Will involve updating and correcting property records and improving techniques in conducting physical inventories. Duties will also include assisting in the process of reconciling property records with ac-counting records. Will work on special projects assigned. A Bachelor's degree in Accounting or Business, or equivalent combination of education and experience is required. Two years experience in accounting or property management also re-quired. Knowledge of computer applica-tions is desirable. Must be able to communicate with all levels of personnel to obtain needed information. Should be able to work under pressure to complete deadlines. Must be technically competent to recognize, describe, categorize, and record information about sophisticated equipment and its components, A86-657

Assistant to the Director, Telecom munications Systems, to provide technical and administrative support to the Direc-tor, Telecommunications Systems, in the implementation of an integrated telecom-munications system. Will be the administrative and control data administrator for Telecommunications Systems and implement special projects as designated by the Director. A Bachelor's degree, preferably in telecom-munications or information systems computing, required. One to three years related work experience in telecom-munications or information systems desirable. Good written and oral communications skills are required. A86-656

Communications Officer, Media Laboratory, to be responsible for coor-dinating corporate liaisons, publications, news and media relations and develop ment. Will be responsible for reporting research results, arranging for visiting research affiliates, hosting corporate visits, initiating and maintaining cor-porate connections with sponsoring com-panies in an electronic mail system. Additional responsibilities will also include oducing, maintaining, and distributing all lab reports, including publishing op-tical videodiscs, CD-roms or floppy discs, sheltering Lab from media; designing and maintaining press kits and lab research archives to an wer formal media requests preparing and fact finding for appreto corporations and foundations for funding of chairs and support of discretionary funds; and coordinating with Development Office. Some travel may be re uiréd. Bachelor's degree in Electrical Engineering or Computer Science and/or ectrical 3-5 years technical experience; 3-5 years public relations, communications, in-dustrial liaison experience; or equivalent combination of education and experience. A86-655

Facilities Coordinator, Division of Com rative Medicine, to be responsible the organization and monitoring of all building and technical support activities for DCM facilities at MIT and the White-head Institute. Will continually review preventive maintenance procedures, nufacturer's instructions a nd prevail ing building support practice for meeting research needs and animal health re-quirements as specified by NIH, FDA, and other Federal and private agencies. Where appropriate will recommend new procedures and changes to existing operating and maintenance methods. Must have a thorough working knowl-edge of heating, ventilating and air conditioning and other building/electrical support systems. Will work closely with Er nmental Medical Services and Physical Plant. Must have an associate degree in Mechanical Engineering and/or two to five years applicable experience or the equivalent combination of education and experience. A86-653

Librarian I/II, MIT Libraries, to act as head of LC Cataloguing/Retrospective Conversion Section. Will utilize the OCLC Cataloguing Subsystem and the Geac MARC Records Management System and supervise the 8 FTE members of the LC Cataloguing/Retro-spective Conversion Section whose responsibilities include: all aspects of cataloguing English and foreign language monographs in all subject areas for which Library of Congress, Government Print-ing Office, or selected contributed cat-aloguing is available; retrospective conversion of circulating titles; and holdings creation for multivolume works. Will formulate and interpret cataloguing policy for Section in consultation with appropri ate senior staff, and participate in Department and systemwide committees for pro cedures and/or policy formulation. MLS from an ALA-accredited library school required. Working knowledge of MARC for mats and AACR2 as implemented by LC essential. Two years LC cataloguing experience necessary; 1 year original cataloguing experience preferred, both preferably in a research library. Knowledge of LC classification highly desirable. Advanced knowledge of OCLC cataloguing sub-system required. Minimum 1-2 years supervisory experience needed. Appoint-ment to Librarian II level requires three years of professional experience. C86-171

System Manager, Center for Cognitive Science, to oversee operation of the Cogni tive Science Laboratory, a computer-based facility for experimental research in perception, cognition, and language. Will purchase, install, and maintain computer equipment and supplies; supervise programmers, students, and assistants develop and document programs for real-time control of experiments. Expertise with the Unix operating system, DEC PDP 11 and VAX 11 computers, and the programming language is essential. Fam-iliarity with the RT-11 operating system and LSI-11 and Rainbow computers is de-sirable. Bachelor's degree in Engineering,

Computer Science, or Psychology, or equivalent experience required. R86-893 Technical Assistant, Laboratory for Electromagnetic and Electronic Systems, to be responsible for electronic circuit construction and biochemical measurements in a cellular biophysics research laborato-ry, Laboratory for Electromagnetic and Electronic Systems. Candidate must have a BS in a biological/engineering science and, preferably, at least one years experience. Must have the ability to work cle ly with graduate students, undergraduate students and faculty. Punctuality is essential. R86-892

Research Specialist, Laboratory for Electromagnetic and Electronic Systems, to be responsible for cell culture and organ culture of several cell and tissue types, perform experiments involving cell and organ culture and perform mical measurements. Requi bioch include BS or higher degree in a biological or engineering science and two or more years of research experience and knowledge of cell culture methods. Abili ty to work closely with students and faculty; punctuality is essential. R86-891

Technical Staff, Physics, to be in charge of preparation and development of lecture demonstrations. Should have broad knowledge of physics with strong interest in teaching. Will work with physics faculty, staff, and students. Experience in teaching and sense of esthetic qualities of demonstrations are important requisites. Experience with mechanical and elec-trical construction techniques a necessity. Bachelor's degree in Physics or Electrical Engineering essential ence helpful. R86-890 ential and prior experi

Technical Assistant, Center for Cancer Research, to do research in the mo biology of growth factor action. Will be responsible for organization and maintenance of the laboratory. In addition, will conduct experiments involving recombi-nant DNA technology and mammalian nalian cell culture. Requires a BA in Biology. and previous laboratory experience neces-sary. Must be able to work independently. Preference given to those candidates with previous experience in molecular genetics R86-889

Staff Engineer, Harvard-MIT Division of Health Sciences and Technology, to be responsible for the design and mainte-nance of an experimental medical system for treatment of cancer by hyperthermia with scanned focused ultras und and/or with RF and microwave electron nagneti with Kr and microwave electromagnetic radiation. Will involve interfacing of DEC, HP, and IBM computers and fore-ground/background programming for real-time control of fractional horse power motors to control a robotic arm with six degrees of freedom, for the use of IEEE-488 Bus based instruments for control of data acquisition and for pro-grammed control of Megahertz frequency RF power sources to drive high impedance, high Q ultrasonic transducers and RF radiating horns. Involves mechanical design of robotic system and insonation heads. Will have to contribute to design and implementation of a second generation hybrid system utilizing both stepper and DC servo motors for hyperthermia by combined ultrasonic and RF fields. Mini-mum of BS in Electrical Engineering required. Also requires knowledge and ex-perience in digital and analog circuit design and in biomedical temperature measurements in ultrasonic and RF fields. R86-887

ergy Laboratory, Research Engineer, En to join the Aerosol Characterization Group, a multidisciplinary team involving chemical engineers, material scientists and inhalation toxicologists in research on the physical and chemical characteri zation of inorganic combustion-generated aerosols. A Master's degree in physical sciences, mechanical or chemical engineering required with a minimum of 2-3 years experience in high temperature catalysis studies or chemical characteriza-tion with a strong background in coal combustion technology, aerosol science and instrumentation. Demonstrated effective written, oral and interpersonal skills also required. R86-886

Research Specialist, Research Laboratory of Electronics, to provide overall engineering support for Auditory Psychophysics Group which engage research on hearing, hearing aids and tac-tile aids for the deaf. Primary responsibilities include construction, troubleshoot, ing, and collaborative design of audio and electromechanical equipment which is often computer controlled. Other respon sibilities include diagnostic programming and assisting electrical engineering students with laboratory projects. BS degree in Electrical Engineering, 3-5 years direct/related experience and the ability to work independently required R86-882

auxiliary assignments as required. High school graduate or equivalent necessary. Some college study preferred. Requires 2.5 years direct/related experience. Experience using OCLC Cataloguing Sub-system and retrospective conversion highly desirable. Accurate typing of 40 wpm and attention to detail essential. wpm and attention to detail essential. This is a temporary position ending December 31, 1986, with possible renewal for second year. Will work Monday-Friday, 7:00-10:30 a.m. Saturday hours negotiable. L86-166, L86-167

Library Assistant III, Dewey Library, to act as Stack Supervisor. Will be response ible for shelving and maintaining in good order the Library's general book collection and other special collections. Will conduct initial searches for materials reported missing from the Library's collections, and maintain required statistics. Will perform inventory or shelf-reads for the general book collection as required; oversee transfer of material from general library stacks to storage areas; oversee the work of three or more student assis-tants. Will assist as needed at the Library's Circulation and Information Desk. Will be expected to learn and to operate Deac automated circulation system. Occasional evening or weekend work may be required, based on a prear-ranged schedule. Minimum of one year direct/related experience required. Post high school education can count toward experience. Familiarity with typewriter keyboard desirable. Ability to organize tasks and a variety of duties, and to work with a minimum of supervision as well as the ability to adapt to an automated environment essential. Physical stamina is important for stacking library materials. L86-162

Library Assistant III, Barker Engineering Library, to act as Binding and Serials Assistant. Will pull and prepare journals to be bound and update binding records including manual records and records on the personal computer, and process serial updates, including standards and loose leaf updating services. Will be responsible for the processing of MIT reports; training and directing students in selected routine procedures; filing in one section of the uthor/title catalogue; and some journal check-in, as well as assisting with projects when needed. High School graduate or equivalent necessary. Minimum 1 year direct/related experience required. Post high school education may count towards experience. Ability to handle detail, work independently and organize a variety of tasks under conditions of changing priorities necessary. Accurate typing required speed not essential. NON-SMOKING OF speed not essent FICE L86-152

Library Assistant III, Barker Engineer ing Library (part-time), to provide circula-tion services to library patrons. Will charge and discharge books, renew material and perform other circulation func ns using an online computer system Will instruct patrons in the use of public access terminals and perform additional duties as assigned. High school diploma or equivalent is necessary. Minimum of one year related experience is necessary. Post high school education may count towards experience. Experience with an interactive computer system helpful; ability to interact successfully with other staff members and with patrons in a hectic environment is essential. Punctuality necessary. (17.5 hrs/wk, Monday-Thursday, 3-6:30, Friday, 3:30-7pm) L86-150

Art with M Secretary/Staff Assistant

Administrative Secretary, Chemistry, to perform secretarial duties for a faculty member and research group. Will handle correspondence, telephone calls and messages and give general assistance to members of the group. Ability to take dic-tation is desirable but not essential. Strong typing and general office skills are essential. Will type technical manuscripts, periodic research reports of the group members, and applications for research grants using a word processor. Strong organizational skills necessary. Minimum 4.5 years direct/related experi-ence required. B86-178

Sr. Secretary, Medical, to be responsible for a wide variety of secretarial and clerical tasks within the Medical Department. Duties will include relieving in medical secretarial offices in case of illness, vacation periods, lunch hours, etc. Will be asked to assist secretaries in time of heavy work loads which may involve transcription, typing correspondence, reports, preparation of mailings, and fil-ing. Will be asked to transcribe reports for part-time physicians as necessary, and generally perform typing and clerical tasks as related to any area in the Department. Although primarily the sec retarial floater, individual will be asked to cover in reception areas and business office as necessary. Must be an excellent typist; speed and accuracy important. Position requires considerable flexibility, ability to learn procedures quickly; adapt readily to changing assignments. Previous secretarial experience is re-quired, preferably with some exposure to a medical setting. Minimum 2.5 years direct/related experience required. B86-188

	nen newitt	3-420
h, .	Dick Higham	3-427
q,	Virginia Bishop	3-159
r	Appointments:	
	Therese McConnell	3-427
	Oveta Perry	3-159
	Kenneth W. Chin	3-426
	Sally Hansen	3-427
1	Appointments:	3-426
p	Maureen Howard	3-426
	Latin	

Kim Bonfiglioli Appoint

Administrative and Academic Staff

Calumet/Cambo view camra w/ mntd 210mm Rodenstock lens, inc various periphrls, looking for out-right purchs or exch for smllr format eqpmnt. Leslie Rome, x3-1668 or 623-6377.

IBM 85 Memory typwrtr, '83 mdl w/stnd like nw, orig cst \$1,950, sell for \$500; sleep sofa, also like nw, \$100; LR couch, \$100. Call x183-293 Bates or 269-1866, lv

Vehicles

'72 VW Superbeetle w/sunrf, \$200. Call x3791 Lind

'72 Toyota Corona, 4-dr. auto trans, rst. nds tune-up & batt, nice car, evrythng wrks, \$400 takes it. Fran, x3-7287 or 729-8356.

'73 VW Beetle, red, v dpndbl, 6K on nw eng, bdy looks grt, have all rpr rcrds, bght nw car & mst sell this pronto, \$400. Call x3-5197 or 289-3773.

'74 Ford LTD, nw trans, gd eng, bdy & int, nds muff & radiator hose, \$350. Ray, x3-3353 or 628-5092.

'76 VW Rabbit, 4-dr, 4-spd, 73K, nw trs, batt, brks, shcks, sunrf, passive restraints, exc cond, \$1,500 or bst. Dick, x3-2362.

'76 Honda Civic, 60K, rns gd, nw strtr, exh & batt, int gd, a lttl rst, grt cty car, \$850. Bernice, 868-1481. \$325+, Ed. 489-4355.

Mature W to shr spacious, fully eqppd 2BR apt in 2-fmly in Newton, no pets/smkrs, \$225/mo+ utils. Barbara x3-5259 or 965-9662.

Carpool

Vanpool seats avlbl, Manomet/Plymouth N Sta/Gov Ctr/MGH/MIT, arrive Cambridge 7:30am, lv 4:30pm. Edwina, x3-4073.

Carpool betwn MIT/Linc Lab & Coolidge Corner, Brookline. Harry, x4905 Linc.

Miscellaneous

Prof techncl illstrtng, drftng of figures, tbls, graphs, etc, pick-up & delvry, estimates, rush servc, v rsnbl, MIT refs, cash, checks or account charge. Tim, x3-5297/3252 or Rebecca, 332-6183.

Surplus Property

The Property Office has the following ex-cess 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

Assistant to the Director, Teleco munications Systems, to provide technical and administrative support to the Direc-tor, Telecommunications Systems, in the implementation of an integrated telecom-

Sponsored Research Staff

Technical Assistant, Department of Biology, to work in human molecular biol-ogy. Work will involve recombinant DNA technology, with emphasis on cloning and DNA sequencing. Specific tasks include preparation of plasmid and bacteriophage DNA, electrophoresis, DNA sequencing, and bacteriological manipulations. Approximately 1/4 of time will be spent on basic laboratory maintenance, such as preparation of media and other materials, and administrative duties. BS in Biology related field required. Experience with DNA sequencing desirable, but not required. R86-894

Library Support Staff

Library Assistant IV, Retrospective Conversion, MIT Libraries-Catalogue Department (temporary, part-time - 17.5 ours/week), to participate in ong retrospective conversion of circulating titles to machine-readable form by conver ting MIT bibliographic records of Library of Congress-classed monographs for which Library of Congress or contributed records exist online. According to re-quirements of the OCLC Cataloguing Subsystem, will assign appropriate con-tent designators to MIT bibliographic data according to the MARC format, edit and update catalogue data online to con-form to MIT policies and OCLC biblio graphic input standards, and add MIT holdings information. Will also assign barcodes to converted holdings, maintain statistics of titles converted, and perform

Sr. Secretary, Biology (part-time), to per-form diverse secretarial duties for biology professor and research group. Primary duties include preparation of grant pro-posals and monitoring of funds in active grants; processing and follow-through of purchase orders for office and laboratory supplies; typing and editing scientific manuscripts, class material, grant and manuscript reviews and correspondence, and arranging travel. Good typing and or ganizational skills required. Experience with word processing equipment helpful Should feel comfortable working with figures. Minimum 2.5 years direct/related experience required. B86-187

Sr. Staff Assistant, Nuclear Engineer ing, to assist the Administrative Officer and Administrative Assistant to the Administrative Officer in preparing and maintaining payroll, accounting, and pur-chasing records. Will provide administrative support in preparing and

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submitting appropriate materials and in-teract frequently with a variety of MIT of-fices, vendors, and others when com-pleting transactions. Will utilize word processor in accomplishing required tasks. High level of personal, telephone, and written interaction with MIT faculty, staff and students required. Will provide other office support as needed. Minimum 2.5 years direct/related experience required. Attention to detail and ability to follow through in an environment with frequent interruptions necessary. Good com-munication, interpersonal, and typing skills a must. Will utilize a word processor for accounting and related assignments. Good opportunity for growth and development. NON-SMOKING OF-FICE B86-181

Sr. Secretary, Materials Science and Engineering, to perform secretarial duties including typing general correspondence, preparation of technical reports and jourpapers from handwritter scripts, distribution of reports, ad handwritten nal ministration of project budgets, review of monthly statements, coordination of departmental seminars' (scheduling speakers, rooms, AV equipment), RA/TA appointments for graduate students, and planning both domestic and international travel for projects in Spain Everyt and travel for projects in Spain, Egypt and Switzerland. Will order goods and ser-vices from outside vendors, arrange appointments; telephone messages, file, maintain office supplies and perform general office tasks. Dictaphone or shorthand skills desirable. Ability to interact effectively with many people in a busy of-fice necessary. Accuracy in recording ages, expenditures, reviewing month ly budget summaries, monitoring paper flow, and the ability to organize and control work from multiple sources and set up and maintain effective information systems-storage and retrieval capacity essential. Fluency in Spanish highly desirable. Minimum 2.5 years direct/ related experience required. B86-180

Sr. Secretary, Biotechnology Proces Engineering Center, to join our team and provide secretarial and administrative support to Center Director and his assis-tant. Responsibilities include answering telephone; greeting and assisting visitors and students; typing correspondence, reports and manuscripts from dictaphone and/or hand-written material; filing and maintaining accurate office records; copying forms, correspondence, notes; sorting and distributing mail, ordering and main-taining office supplies; and hand deliver-ing mail when needed. Will use electronic mailing system to send/receive corre-spondence and telexes. Ability to work independently and to recognize and set priorities necessary. Knowledge of DEC Mate II and IBM PC-XT desirable; willingness to learn essential. Minimum 2.5 ars direct/related experience required. B86-177

Sr. Secretary, Bursar's Office, to provide secretarial support for Bursar, Associate Bursar, Assistant Bursars (2), and Stu-dent Counselors (4). Duties will include answering or redirecting routine student inquiries, scheduling appointments, ar-ranging travel, copying and maintaining files, ordering supplies, preparing various types of Institute forms, handling payment of invoices, and screening incoming mail and telephone calls. Will also be custodian of petty cash. Will perform ad-ditional duties as necessary. Attention to detail, good organizational skills, and flexibility important. Minimum 2.5 years direct/related experience required. B86-176

Sr. Secretary, Laboratory for Nuclear Science/Center for Theoretical Physics, to provide secretarial support for several scientists including two Institute Pro-fessors and the Director of the Laboratory for Nuclear Science. Will be responsible for typing correspondence, reports and oc-casional technical documents. Duties will also include arranging meetings and travel, maintaining files, and taking dic tation using dictaphone. Will also coordi-nate complicated calendars, do heavy copying, maintain bulletin boards, distri-bute and forward ate and forward mail, and close up the Center each day at 5 pm. Excellent office skills and willingness to learn Mass11 word processing and TeX typesetting pro-gram necessary. Good interpersonal and organizational skills essential. Minimum 2.5 years direct/related experience reguired. B86-173

Sr. Secretary, Civil Engineering, to serve as Secretary to Administrative Of-ficer. Will be responsible for weekly, hourly, and student payrolls; processing research proposals and academic and research staff appointments; handling routine correspondence including advising prospective visitors; interacting with a large number of MIT administrative of fices, and serving as a resource to faculty and students in the Department. DecMate II word processing experience and spreadsheet experience preferred. Minimum 2.5

Institute forms and helping maintain monthly accounting statements and receiving visitors. Must have good organiza-tional and interpersonal skills. Excellent typing of 50 wpm with accuracy and oofreading skills more important than speed. Familiarity with word processing systems preferred but will train. Mini mum 2.5 years direct/related experier required. NON-SMOKING OFFICE B86-157

Sr. Secretary, Humanities-History (part time), to perform secretarial duties for 13 faculty members. Duties will include typing correspondence, exams and manuscripts; answering phones; maintaining files; copying; monitoring student copy ex-penses; monitoring records of proposed and completed History Concentrators and maintaining their current addresses; ordering course books and desk copies for professors; maintaining office supplies; compiling information for Institute reports, and assisting with the Fall and Spring History Faculty Lecture Series. Must have excellent typing skills and be attentive to detail, and have strong interpersonal skills, with the ability to set priorities. Familiarity with and/or will-ingness to learn word processing on DEC-mate word processors and IBM personal computers essential. Minimum 2.5 years direct/related experience required. Will work 20 hours per week from 1:00-5:00; position may become full time. B86-153

Sr. Secretary, Harvard-MIT Division of Health Sciences and Technology, to per-form secretarial duties for the Biomedical Engineering Center for Clinical In-strumentation. Duties will include the taking and transcribing of dictation involving complex technical terminology, and typing of letters, technical manu scripts, tables and charts. Will be respons ible for the accuracy of material typed. proper format, punctuation and spelling Will screen telephone calls, make refer rals and appointments, and independently handle many calls. Will independently reply to some letters and compose others from oral instructions; routinely verify information on monthly financial state-ments, and assemble information for budgeting; and assume responsibility for many office functions such as mail distribution, organization and mainte-nance of files. Good organizational skills and the ability to grasp Institute proc dures quickly is necessary. Accuracy and the ability to work well under pressure in this busy office essential. Secretarial school or college training with 2.5 years direct/related experience required. Excellent typing skills essential. Good arith-metic and communication skills preferred. Knowledge of word processing (text editing) desirable. B86-147

Sr. Secretary, Mechanical Engineering, to provide secretarial and administrative support for one faculty member. Duties will include preparation of technical manuscripts and reports, updating mailing lists and distributing materials, wering telephone inquiries and corre-idence, preparing teaching materials. Involves extensive interaction with students and international companies fund-ing research. Excellent technical typing skills essential. Ability to work indepen dently, good organizational skills, and at-tention to detail important. Excellent interpersonal skills necessary. Minimum 2.5 years direct/related experience required. B85-138

Sr. Secretary, Laboratory for Computer Science, to provide general secretarial support for two faculty within LCS, Theory of Computation Group, a large in-teractive 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 sup-port including text editor, formatters, and file systems as appropriate. Other secre-tarial responsibilities include handling correspondence, telephones and travel arrangements. Minimum 2.5 years direct/related experience required. In-terest in learning computer-based textediting and other computer aids; ability to work independently and to exercise judg-ment in prioritizing tasks; good technical typing skills; ability to interact with a diverse group of faculty and students essential. B85-101

Sr. Secretary, Electrical Engineering and Computer Science, to work for two Electrical Engineering and Computer Science Faculty members. Will check monthly research accounts, and will type course material, technical reports, proposals, journal articles, and correspon-dence. In addition will maintain filing system, answer phones and student ques tions, and will arrange appointments, meetings, and travel. Word processing experience and technical typing skills neces-sary. 2.5 years direct/related experience required. NON-SMOKING OFFICE B85-081

reports and proposals, journal articles and correspondence; maintain filing systems; answer telephones and student inquiries Word processing and technical typing ex-perience necessary. Minimum 2.5 years direct/related experience required B85-040

Sr. Secretary, Materials Science and Engineering, to perform secretarial duties for 2 professors. Responsibilities will include typing classwork assignments, sci-entific papers, proposals, and correspon-dence. Will monitor research accounts, schedule meetings, order supplies, and ar-range appointment schedule. Familiarity with word processing and MIT desirable. Ability to set priorities and work indepen-dently essential. Minimum 2.5 years direct/related experience required. NON-**SMOKING OFFICE B85-039**

Sr. Secretary, Electrical Engineering and Computer Science, to perform secre tarial duties for 2 faculty members Duties will include arranging appoint ments, meetings, and travel; checking monthly research accounts; typing course material, technical reports and proposals journal articles and correspondence; main-taining filing systems; answering phones, and student questions. Word processing experience and technical typing skills necessary. Minimum 2.5 years direct/related experience required B85-038

Staff Assistant, Center for Advanced Engineering Study, to provide support for the Center's Conference Seminar Program. The program runs 10 to 15 con-ferences annually. Will give logistical support interacting with MIT services and/or other vendors for each program. Responsibilities include preparation of registration materials, arranging and pron of viding on-site coverage to monitor and maintain the quality of services and ma-terials at each program, and performing other related administrative duties as required. Requires at least 1 year of direct/related experience. Excellent organizational and interpersonal skills re-quired. Will utilize a microcomputer (DEC Rainbow) in performing related duties. B86-179

Secretary, Center for International Studies (part-time), to provide general support to research center administrative headquarters. Duties will include typing correspondence and reports, filing, and assisting with organizing seminars and mailings. Must have good communication skills, good typing skills, ability to work from taped and handwritten materials, and familiarity with or willingness to learn Wang word processing system. Must be able to work independently once tasks are assigned. Minimum 1 year direct/related experience required.

Secretary, Center for International Studies (part-time), to type letters and memoranda, file, answer phones and per-form general secretarial and support duties for MIT/Japan Science and Technology Program. Excellent typing skills required. Must be able to work indepen-dently once tasks are explained. Minimum 1 year direct/related experience re quired. B86-164

Staff Assistant, Artificial Intelligence Laboratory, to perform general secretari-al duties for the administrative officer and two assistant administrative officers. Duties will include typing, proofreading, answering telephone, opening and distri-buting mail, maintaining files and rec-ords, and photocopying. May perform ad-ditional duties as assigned. Must have good organizational skills, excellent typ-ing, spelling, and grammar skills. Good interpersonal skills and the ability to work with confidential matters in a pro-fessional manner essential. College education preferred, minimum 1 year direct/re lated experience required. NON-SMOKING OFFICE B85-104

Technical Support Staff

Technical Assistant, Medical Depart ment (part-time), to be responsible for ad ministering to patients required Health Screening tests (EKG, Glaucoma, Ex-pirogram, TB Vision Tests, Blood Pressure, height and weight). Will com-plete requisitions for laboratory, TB and other diagnostic tests, coordinate and refer test results to reviewing physician, and handle other related clerical, statistical and computer input duties pertinent to Health Screening Program. Will also provide administrative support to Department's New Student Physical Exam Program. Previous experience as a trained medical assistant required. Must have the ability to work independently, relate well to natients and medical staff and have cellent organizational and clerical skills.

Kendall Square work progresses

Administrative Assistant, Materials

Processing Center, to perform a variety of administrative and secretarial duties for

a Principal Research Staff member.

Duties will include monitoring of ac-counts, purchasing, and budgetary material (2,000,000+ volume), establishing and maintaining file/data-

base systems; typing/proofreading reports, manuscripts and other material; proof-

reading/correcting drafts and galley pro-ofs received from outside publishers;

maintaining pricing and related informa

maintaining pricing and related informa-tion from Graphic Arts and outside ven-dors; coordinating complex travel, meeting, and special events; handling of-fice inquiries; and performing related duties as required. Will supervise other office staff as required. Minimum 4.5 years direct/related experience required. Business degree preferred. Knowledge of Apple MacIntosh, word processing, and MIT procedures desired. Strong interper-sonal skills, ability to work independently and attention to detail preferred. NON-

and attention to detail preferred. NON-SMOKING OFFICE S86-148

Sr. Office Assistant, MIT Press Promo

tion Department, to assist publicity manager. Will solicit endorsements for

books by mail and phone; handle page proofs; order review copies; maintain com-puterized media lists; answer phones;

make copies and file. Must become famil-iar with backlist and forthcoming titles. A

strong interest in publishing, ability to co-

ordinate several projects simultaneously, good organizational skills, and ability to

work well under pressure essential. Must be able to meet all deadlines and work well with others. Minimum typing speed of 60-65 wpm required. Minimum 2.5 years direct/related experience required. S86-186

Sr. Office Assistant, Purchasing and Stores, Office of Laboratory Supplies, to support OLS business, accounting, and purchasing functions. Will type purchas-ing orders, change orders and reports, pro-

ress invoises for payment, and resolve problems with vendors and MIT Accounts Payable. Will assist in terminal screening of Purchase Order Commitment/Signa-ture Authorization system. Will also batch asless requisitions for computer in

batch sales requisitions for computer in-

put and resolve computer error list pro-blems. Duties will include becoming

familiar with gas cylinder deposits, petty

cash, furniture procedures, and statement errors in order to fill in during absence of

other personnel. Minimum 2.5 years

direct/related experience required. Typing speed of 40+ wpm essential. S86-174

Office Assistant, Laboratory for Com

puter Science, to perform a variety of routine tasks including operation of a

copying machine - keeping it in good working order - collating, stapling and binding. Will order supplies and perform additional related duties as necessary.

High School graduate or equivalent with a minimum of one year direct/related ex-

perience required. Must be flexible and willing to learn and perform repetitious work in a busy office. Proficiency with

Second Cook, Endicott House, to report

directly to Executive Chef. In absence of chef will supervise kitchen staff and as

sume leadership of department. Will pre-pare food as outlined and according to recipes for all meals with high standards

of cooking and presentation; and main-tain high standards of personal and work hygiene for self and staff. Will purchase,

copy machines preferred. S86-185

Whither goest Kendall Square? And when? According to O. Robert Simha, MIT's director of planning, much of the work on the square's major construction projects is scheduled to be completed by September or soon after. These timetables have been established, Mr. Simha said:

Subway Station: Scheduled for completion in September. The new head house at Carlton Street should also be operational at that time. Associated landscape developments should be under way in late summer and early fall, including paving of the subway station plaza.

-Marriott Hotel: Expected to be completed by late August, 1986, with possible opening in early September.

-Main Street: Should be reopened for eastbound traffic in September.

Meanwhile, good news of a sort comes from the state Department of Public Works regarding the scheduled repair and reconstruction of the Harvard Bridge.

Present plans, the DPW told Mr. Simha, call for the bridge to remain open at all times-although traffic lanes will be limited-to

rience in office procedures, and the ability to compose memos and short letters is necessary. Minimum 4.5 years direct/related experience required. emos and short letters is S86-189

Administrative Assistant, Chemical Engineering, to work for the Department Head of Chemical Engineering. This posi-tion offers a varied selection of interesting responsibilities including meeting and function planning, coordinating travel itineraries, monitoring accounts, and in-teracting with MIT faculty, students, and others. Will perform related secretarial duties and utilize a DECMate II word processor in related processes. Will coordi-nate and facilitate the duties for the Offices of the Department Head and of the Executive Officer. Must be discreet in handling confidential material. Will coor-dinate meetings for faculty searches, reviews and promotion cases. Will ensure smooth operation of and supervise other support staff in Headquarters Office. Minmum 4.5 years direct/related experience with a solid background in office/secretarial procedures required. MIT experience preferred. Ability to maintain con-fidentiality and deal with sensitive issues with tact and discretion necessary. Good interpersonal skills and the ability to adapt to a variable work environment with a minimal amount of supervision ssential. S86-182

Journals Production Assistant (Editorial Assistant), MIT Press Jour-nals (part-time - 17.5 hours/week), to send proofs, manuscripts, and mechani-cals to editors, suppliers, manufacturers, illustrators and freelancers. Will also order courier pickups, wrap packages, follow schedule for deliveries, paste up corrections, and clean mechanicals for printer. Will check and correct, if neces-sary, all illustrations, figures and tables, and handle production in absence of Production Manager. Duties also include pasting up and correcting advertisements; handling design and production of pub-set ads; coordinating ad availability with Advertising Assistant and Production Manager; creating file of in-house ads, to be kept current and camera-ready; creat-ing file of order cards, to be kept current; and keeping exchange ads camera-ready and current. Will assist Promotion and current. Will assist Promotion Manager in design and paste-up of direct mail pièces and promotional materials; handle quarterly billing for offprints and alterations charges and follow up problem with Will water or for climited and the problem bills. Will paste-up for Circulation when needed; and produce stationery and forms for department and editorial offices. College degree or equivalent experience re-quired; at least one years experience in book or periodical publishing (production) preferred. Basic knowledge of paste-up and typographic specification required; knowledge of graphic arts terms helpful; femilierity with printing and twosenting. familiarity with printing and typesetting procedures and some familiarity with proofreading marks and copyediting desirable. Ability to work under pressure of deadlines necessary and willingness to learn computer-operated invoicing program essential. S86-172

Administrative Assistant, Medical Department, to provide administrative support to the Medical Department's Pharmacy Service (extremely busy, patient-oriented Service, staffed with two full-time and one part-time pharmacists filling an average of 1,200 prescriptions per week). Duties will include significant purchasing activities including weekly voices for payment, monitoring and updating current prices, review of 200 pur-chasing contracts, and maintaining de-tailed purchasing records and inventory control. Responsible for managing phar macy computer data files and will a liaison with computer company and in-house Systems Information personnel. Also responsible for daily cash and charge receipts, preparation of monthly financial reports, assistance with budget prepara tion, and the collection and preparation of Quality Assurance reports. High school graduate with college degree preferred. Four to five years work experience in progressively responsible position, preferably with purchasing and financial duties, pre-ferred. Good interpersonal, organizational, word processing, and computer skills sential. Ability to work independently necessary. S86-171 Administrative Assistant, Treasurer's Office, responsible for control of central gifts received account, checking all cash deposits, security credits, transfers and corrections. Will check daily batch listings from terminals against backup on transmittal sheets; log security gifts and corrections, and maintain securities register. Will process gifts of securities, bank notifications, broker letters and donor acknowledgements, and handle tel-ephone inquiries. Must be good with figures and details; accounting back-ground helpful. Good typing skills, accuracy and dependability necessary. Basic knowledge of securities helpful. Minimum 4.5 years direct/related experience required. S86-163

pedestrians, MBTA buses and cars. "One of the most important considerations

in moving to this new plan," Mr. Simha said was an environmental assessment which determined that the air pollution caused by the shifting of 30,000 vehicles a day that use the bridge would be an unacceptable impact on the surrounding community.

The initial work on the bridge, according to the DPW, will be temporary repair of the downstream side to accommodate MBTA buses. This work should begin in early spring and be completed by the end of the summer. At that time, the down-stream side will be open to the buses only; trucks will continue to be prohibited.

About a year from now, the DPW intends to advertise for bids for the reconstruction of the bridge, with one-half to be done at a timefirst the up-stream side and then the downstream-and the bridge remaining open to traffic.

The reconstruction, which will involve the complete replacement of the superstructure, is expected to begin in 1987 and be completed in approximately two years.

> Post high school education will count towards experience. Good typing, ability to use word processor/willingness to learn, good organizational skills and attention to detail necessary. Good interpersonal skills essential in this busy office. NON-SMOKING OFFICE S86-159

Office Assistant, Plasma Fusion Center, to provide reception, computer input, and general secretarial support for the Head-quarters Office of the Mirror Confinement Division. Work will include handling phones; assisting visitors; typing, proo reading and filing of general correspon dence; ordering of office supplies; entering of simple data into well established database on computer; copying; delivering of messages and information to the Divi sion personnel, and mailing of correspondence and other announcements. High School graduate or equivalent required as well as 1 year of direct/related experience. Should have good interpersonal and orga-nizational skills for this busy office. S86-156

Service Staff

Heat and Vent Mechanic, Physical Plant (irregular shift). Should have a broad range of experience in building heating, ventilating and air conditioning (HVAC) operations and maintenance Specific experience in the operation of steam heating system, HVAC controls, boilers, water treatment, and refrigeration systems with hands-on experience in the repair, replacement, and adjustment of their operating components is a re-quirement. High School education and a minimum of five years experience in the eration and maintenance of building HVAC systems required. Formal training in mechanical operations and mainte-nance may be considered as a substitute for a portion of the experience require-ment. H86-332

Dormitory Patrol, Housing, to work as directed by the Evening Manager or other appointed supervisor (work week of con-secutive five days and two days off, from twelve midnight to eight am). Will perform a series of scheduled watch rounds in an assigned building or buildings, be observant for hazardous conditions (i.e., observant for hazardous conditions (i.e., fire, safety, utility failure, etc.), take cor-rective action and call Physical Plant department for emergency service. Will report all trespassers and disturbances to Campus Police, and submit written report to the Manager of all activities at the end of each shift. Must be able to work night shift. Must be physically able to walk stairs while making the watch rounds. H86-310 H86-310

Technician A (E-M), Haystack Obser vatory, to spend a major part of time maintaining and operating cryogenic refrigerator systems both on the Haystack antenna and at ground-level stations, under the supervision of engineering per-sonnel. Duties will include doing regular cheduled and corrective maintenance; helping to move systems between anten na and ground levels, and setting up and shutting down operating systems. Remainder of time will be spent in the construction of specialized receiving and nonitoring instrumentation. Graduation from a two-year day technical school or its equivalent and a minimum of two years of applicable experience are required. Inal should be familiar with the of common hand and machine tools, including lathes and milling machines. Should also have experience with the construction, assembly and wiring of elec-tronic and electrical circuits. The work assignment requires climbing of the antenna tower via protected ladders. Must be able to work with little or no supervision. H85-317

B86-170

Sr. Secretary, Whitaker College of Health Sciences, Technology and Manage ment (part-time - 21 hours/week), to work with a 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 typ-ing, word processing, preparation of routine Institute forms, keeping track of purchasing requisitions, answering phones, and reception. DEC word processing, technical typing (Greek symbol), and dictaphone experience strongly preferred. Should be reliable and well organized. Minimum 2.5 years direct/related experience required. B86-169

Sr. Secretary, Sloan School of Manage ment, to support both the Office of Alum ni Relations and Management of Technol ogy Program, Sloan School. Duties will include typing all correspondence and using Wang and PC word processing systems; answering telephones; handling systems; answering telephones; handling incoming and outgoing mail, maintaining all files and records; scheduling appoint ments, meetings and social affairs; help-ing alumni interface with School; making travel arrangements; preparing various

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Sr. Secretary, Chemical Engineering, to provide secretarial support for one pro fessor and two principal research assoc iates in their academic and research responsibilities. Will compose and type general correspondence, monitor research accounts, coordinate travel itineraries and guest visits, type technical reports and classroom material. Good interpersonal skills and the ability to work indepen-dently necessary. Technical typing and word processing (IBM) experience and/or willingness to learn preferred. Minimum 2.5 years direct/related experience required. B85-057

Sr. Secretary, Aeronautics and Astronautics, to provide secretarial support for 3 faculty and one research associate in the Gas Turbine Laboratory. Duties include typing and proofreading reports, ex-aminations, correspondence and other materials from rough draft. Will answer telephones and receive laboratory visitors, maintain files, arrange travel, prepare vouchers, distribute mail, maintain office supplies, issue keycards, petty cash, and prepare and distribute laboratory reports. Will use word processing system on Cor vus computer. Knowledge of technical typing essential. Minimum 2.5 years dito work independently and good organiza-tional skills essential. B85-047

Sr. Secretary, Electrical Engineering and Computer Science, to perform secre-tarial duties for two faculty members Will arrange appointments, meetings, and travel; check monthly research ac-counts; 'type 'course material, 'technical'

Good typing required. Will be expected to cover full days in the absence of other employees. (20 hrs/week, 9-1pm) T86-155

Office Assistant

Administrative Assistant, Biology, to provide administrative and office support to the Biology Finance Office. Will serve as coordinator of proposal submissions, in-cluding budget development, review for correct and thorough preparation, routing through necessary Institute channels, and maintenance of sponsor information files. Will prepare payroll reports including verification of personnel appointments. termination, special actions, vacation and sick leaves. Will serve as primary facilitator for resolution of payroll problems including preparation of related corre-spondence for documentation; maintain information systems concerning depart mental and research activities; and par-ticipate in special projects as directed by the Administrative Officer. May provide limited assistance with support tasks associated with grant administration including statement reconciliation and monthly account forecasts, purchases, and payments. Share office support tasks such as typing, telephones and mail. Should be willing to assume responsibility, take in itiative, and handle several projects simultaneously. Job is heavily financial and requires ability to handle detailed work with accuracy. Familiarity with and/or willingness to learn use of an IBM personal computer for routine activities within the first six weeks on the job tial. Good interpersonal skills, expe

stock and issue food as directed by chef, and work toward creative improvement of menus. Will price menus as directed by chef; maintain food control program with regard to receiving, stocking and issues; and publish food control reports as directed by chef. Must be capable of order-ing food, food costing, menu-making, and sanitation control. Must be able to provide own transportation as Endicott House is located in Dedham, MA. Dependability is essential. S86-183

Office Assistant, Comptroller's Account ing Office, to process invoices through CRT's. Will perform occasional review of vendor statements, prepare invoices for CRT operators and perform other duties as assigned and required by supervisor. Some overtime will be required. Good typing ability and knowledge of CRT opera-tion desirable. Minimum 1 year direct/related experience required. S86-160

Office Assistant, Resource Development Office Assistant, Resource Development, to provide general office support and some secretarial support for the Assistant Director responsible for senior officer research and the Business and Personnel Manager. Will answer telephones; act as key operator for copiers; perform couries service when necessary; type documents as needed; copy and distribute correspon-dence on a daily basis, and act as backup for mail distribution and copying. Will provide secretarial services including typing memos and short letters, and filing and maintaining appointment calendar. Will assist in processing payroll, invoices and requisitions for payment. Minimum 1 year direct/related experience required.

MIT Writing and Communication Center

The MIT Writing and Communication Center has an opening for a part-time writing tutor(s) during the spring semester, 5-13 hours per week. Available hours are as follows: Tuesdays 10am to 3pm; Thursdays 10am to 1pm; and Fridays 10am to 3pm (a candidate does not have to work a whole block of time; for example, he or she might work Tuesdays 10am to 1pm; or 12 to 3pm) Tuesdays 10am to 1pm, or 12 to 3pm). Candidate(s) must have at least a BS (MA preferred) and must be a good writer Must be able to interact easily with others on a one-to-one basis. Must be able to analyze a piece of writing quickly and to explain concepts. Must have either classroom experience teaching writing or experience tutoring writers, preferably in a writing center environment. Experience tutoring non-native speakers of English and/or technical writers is desirable but not required. Good possibility of continua-tion next year. Please send resume and short writing sample (2-5 pages, excerpts are fine) to Steven Strang, 14N-317, MIT, 77 Massachusetts Ave., Cambridge, MA 02139.