

Winners, Winners, Winners

By MARY ENTERLINE
Editor, IAP Guide

"And the winners are..." This phrase was repeated often as students competed in the MIT College Bowl, the Book Collecting Contest, the Table Tennis Tournament, and the Institute Programming Contest.

Before 600 noisy spectators at the College Bowl last Thursday, January 20, Hillel's four-man team gained victory in the play-off by walloping the all freshmen-sophomore team, Random, 270-75. For their skill Hillel members were awarded the College Bowl trophies, crystal bowls.

Earlier in the evening Hillel and Random won elimination rounds against the two other semi-finalist teams. In the first and most exciting game, Hillel barely beat the all graduate student team, Neo Classics Plus One, 145-140. In the second elimination round, Random out answered Mudshark, 215-140.

Members of the victorious Hillel team, who brought their own cheering section complete with noise makers, were the captain, Bob Schloss, a junior in electrical engineering from Oak Park, Mich.; Ernie Davis, a junior in mathematics from Providence, R.I.; Jeremy Nussbaum, a senior in electrical engineering from Brooklyn, N.Y.; and Michael Stiefel, a graduate student in nuclear engineering from Flushing, N.Y.

The MIT Libraries sponsored the College Bowl, as well as the Book Collecting Contest, which was held the same day. That afternoon eighteen undergraduates and graduate students exhibited examples from their collections.

Ed Kalin, a senior in management from West Hartford, Conn., won the first prize of \$50 in cash and a \$50 gift certificate from the MIT Press for his collection of books, magazines, catalogs, and photographs of the American Radio Relay League. A licensed amateur radio operator, Kalin particularly impressed the judges with his complete set of 54 editions of *The Radio Amateur's Handbook*, published yearly since 1926.

Second prize of \$25 in cash and a \$20 gift certificate to the Harvard Book Store was awarded to Alexander Bialy, a sophomore in mathematics from LaGrangeville, N.Y. Bialy displayed a portion of his collection entitled "Barry Smith: Evolution of an Artist," in which he traces Smith's artistic development from a hack comic book artist to an exponent of Pre-Raphaelite painting and art nouveau. Bialy said his entire collection includes 500 to 700 books, magazines, comic books, portfolios, posters, prints, and original art work mainly by Smith and two other artists who began with comic books.

J. Mark Schuster, a graduate student in Urban Studies and Planning from Meriden, Conn., won third prize, a \$25 gift certificate to the COOP, with his collection of Boston guidebooks. Schuster became interested in guidebooks after he began coordinating production of the guidebook, *Boston: The Official Bicentennial Guidebook*, for Boston 200, the Mayor's Office of the Boston Bicentennial.

Honorable mentions were also given to David Powell Herwald, a senior in architecture from Madison, Wisc., for his collection of books by and about James Agee; to Robert F. Golden, a senior in humanities and engineering from Woodbridge, N.J., for his collection of "Antecedents and Examples of the English Novel," and to John Messina, a graduate student in architecture from Arlington, Mass., for his collection of the works of Lafcadio Hearn. Books from the winning collections will be on display for a month on the landing between the Science and Humanities Libraries.

In the Table Tennis Tournament, two graduate students earned the right to represent MIT in the New England Regional Intercollegiate Championships next month. The victor in MIT's tournament, Stephen Chan, was no surprise. A graduate student in mechanical engineering from Hong Kong, Chan won the New England championships in 1974 and 1975.

What did surprise MIT table tennis regulars was the tough competition Chan received from runner-up Arvi Ben-Zeeb, a graduate student in biology from Jerusalem, Israel. Although competing for the first time at MIT, Ben-Zeeb has twice been a member of Israel's team in the student world table tennis championships.

All six teams finishing the Institute Programming Contest submitted programs of comparable quality and will all receive prizes. The contest organizers, Dan Halbert, a junior in electrical engineering from Oak Ridge, Tenn., and Dan Carnese, a graduate student in electrical engineering from Berkeley, Calif., made the decision to award part of the \$300 in prize money donated by the Laboratory for Computer Science to everyone who finished.

The competing teams were given ten sets of positions on a checkers board and asked to produce a sequence of cooperative moves so that one player would win as quickly as possible. Computer time for the contestants was donated by the Information Processing Service.

Fifty-six people participated in the Scrabble bee organized by Jeff MacGillivray, a graduate student in physics from Bethesda, Md. Semi-finals for the Institute-wide Scrabble bee held during IAP will take place this afternoon (Wednesday, Jan. 26) at 5:30pm in the Bush Room (Rm. 10-105). The finals will be held on Thursday, Jan. 27, also at 5:30pm in the Bush Room. People are invited to observe the competition. The games should last for an hour-and-a-half.

This spring the IAP Policy Committee will be presenting a report evaluating the last four years of IAP for the Committee on Educational Policy. The report, which is required by the faculty resolution establishing a permanent IAP, will assess the extent to which IAP is fulfilling its objectives. Members of the MIT Community who have issues they would like discussed in the report are urged to contact the chairman of the Policy Committee, Professor Michael Feld, in Room 6-007 or any other member of the Policy Committee listed in the IAP Guide.



Despite occasional chants of "\$4,350 is too damn much," following last week's announcement of the tuition increase, the President and Chancellor's 1977 IAP party was a resounding success. A jazz trio composed of Roy Lamson, Art Litchfield and visiting pianist William Youngren from Boston College provided music to munch by. And munch everybody did—some 7,600 cookies, 40 gallons of cider and 15 gallons of hot chocolate. Inspired by the music, Barbara Ann Wilson, '77, and Admissions Director Peter H. Richardson (above) demonstrated a jitterbug for the guests. —Photo by Calvin Campbell

Symphony Orchestra Record Issued

By KATHERINE S.C. JONES
Staff Writer

The MIT Symphony Orchestra, which has played to critical acclaim in Carnegie Hall, Kennedy Center, and other major concert halls across America, will be represented in a series of four recordings to be released by Vox Productions, Inc., of New York City.

In recent years the orchestra, under the direction of David Epstein, has gained widespread recognition through nationwide telecasts of a concert on the Public Broadcasting Service and through its annual spring tour to such cities as New York, Philadelphia, Wash-

ington, Chicago, Dallas, and San Francisco.

The university orchestra is now appearing for the first time on a major record label, in company with some of the most distinguished orchestras in the US and Europe. The repertoire includes some works that have never been recorded before. Among these first recordings are Ernest Bloch's *Suite Hebraique* in the composer's orchestrated version, Frank Martin's *Sonata da Chiesa* for viola d'amore and string orchestra, and David Epstein's *Night Voices*.

During the academic year 1975-76 with assistance from the Council for the Arts at MIT, the orchestra

taped music quadratically on location in MIT's Kresge Auditorium. John Newton, who has been associated with recordings of the Boston Symphony Orchestra and the Berkshire Music Festival, was recording engineer.

The first record was issued in mid January. Three more will be released by Vox at intervals during the coming year.

The first record pairs two American works: Aaron Copland's *Dance Symphony* and Walter Piston's *Suite from "The Incredible Flutist."* The *Dance Symphony* dates from the years 1920-25 and is considered by Copland to be among his earliest works as a professional composer. The music, drawn from an unperformed ballet and divided into three tableaux played without pause, reflects the influence of French impressionistic music as well as jazz elements found in Copland's later works. The music features at its climax a procedure that gained currency in the 1920s: the simultaneous juxtaposition of disparate musical ideas.

Piston's music for the ballet, "The Incredible Flutist," was premiered in May, 1938, at a Boston Pops concert under Arthur Fiedler. The *Suite* presents many salient tableaux from the full ballet. Its scenario concerns a circus flutist whose remarkable playing and personality charm both people and circus animals alike.

The second record, expected to be released in the spring of 1977, will present the first recordings, named above, of works by Bloch and Martin as well as Paul Hindemith.

(Continued on page 4)

DNA Vote Reconfirmed

Cambridge City Council Monday by a vote of 5-to-4 passed on second reading a proposed ordinance that would permit the conduct of recombinant DNA research in Cambridge under conditions set forth in an earlier report by the Cambridge Experimentation Review Board.

The Council's Ordinance Committee will hold another public hearing on the proposal this coming Thursday. Also, the proposed ordinance

will be given legal notice by newspaper publication.

Council member David Clem, sponsor of the ordinance, said he hoped the measure will come up for final vote at the Council's meeting Feb. 7. A twice-extended "good faith" moratorium on such research passed by the Council earlier pending study is scheduled to expire that same day. Scientists at MIT and Harvard plan such research.

AARP To Meet Next Week

All members of the MIT community aged 55 or more are invited to an organizational meeting of an MIT chapter of the American Association of Retired Persons Thursday, Feb. 3, at 4pm in Rm 9-150. Parking will be available in West Garage.

Robert J. Radocchia, manager of Walker Memorial and chairman of the steering committee for the AARP chapter, will open the meeting and introduce Edward E. Simpson, '33, Massachusetts state director of AARP. Mr. Simpson will explain requirements and benefits of membership in the national organization and advantages of chapter affiliation.

Following the presentation, election of officers and a board of directors for the chapter will be held.

Officers proposed for the chapter include: president—Robert J. Radocchia; vice president—Ruth L. Dawson; secretary—Mary Frances Daly; treasurer—Max M. Byer.

Nominations proposed for the board of directors are: Netta Murphy, Joseph Mercurio, Jeri Whitman, Dorothy Donahue, Dick Os-

borne, Miles Cowen, Warren Rohsenow, Frank Bidwell, Harold Dreyer, Samuel Clark, Alfred Keil, Edward Vivian, Zachary Taylor, Fred Soule, Bill Henry, Art Johnson, Pete Darvirris, Walter Milne, Fran McGurn, Jack Principe and Joe Lynch.

Additional nominations will be accepted from the floor. Light refreshments will be served following the meeting.

Sick Pay Tax Exclusion

In the November 24, 1976, issue of Tech Talk employees were informed that the Sick Pay Exclusion from federal income taxes was retroactively repealed by the Tax Reform Act of 1976. However, the deduction for "sick pay" is still allowable under the Massachusetts law as an adjustment to income under the provisions of the U.S. Internal Revenue Code as amended and in effect on January 1, 1971.

Employees requiring assistance in arriving at the amount of sick pay for use on the 1976 Massachusetts Tax Return should obtain a "Report of Absence" form from the appropriate Payroll Office (Lincoln Lab employees at Room A-274 and Campus employees at Room E19-515). These forms should be completed and submitted only for paid absence due to injury or sickness beyond thirty (30) calendar days, or for absences of less than thirty (30) days if paid at less than 75% of normal salary.

THE INSTITUTE CALENDAR X3-3270

January 26
through
February 6

Seminars and Lectures

Wednesday, January 26

What is Happening in Cambridge, Lowell, New Bedford, Quincy & Waltham Under CETA? (208) — Charles Myers, Sloan Fellows Professor of Management & director of Industrial relations section; Thomas Barocci, industrial relations. 10-11:30am, Rm E52-542.

Strobes for Bird Photography* — Harold Edgerton, Institute Professor and professor of electrical measurements, emeritus. Strobe Lab Lecture Series. 12n, Rm 4-402.

How to Prevent Food Poisoning* — Anthony Sinskey, applied microbiology. Research in Nutrition and Food Science (153a). 12n, Rm 16-134.

IAP Introductory Lectures: Open Session for Questions about the Arteriosclerosis Center* — Arteriosclerosis Center: Medical Research (228). 12:30pm, Rm E17-421.

Interstellar Gas Clouds — Their Weight and Fate* — Philip Myers, physics. Lectures on Physics (177). 1pm, Rm 4-231.

X-Ray Bursters, Pulsars, Binaries and Galaxies: A Special Symposium on the Results from the MIT X-Ray Observatory on the Third Small Astronomy Satellite (SAS-3) (234a, 185)* — Bruno Rossi, Institute Professor Emeritus, physics, et. al. 2pm, Rm 9-150.

Mirrors* — Ned Block, philosophy. Why Do Mirrors Reverse Right/Left But Not Up/Down? (169). 2pm, Rm 66-168.

The State of the International Air-Transport Industry* — N. K. Tanaja, aero/astro. Aeronautics and Astronautics Highlights (4). 2pm, Rm 33-206.

Women in a "Man's" Profession in the U.S.A.* — Vera Kistiakowsky, physics. Meet Americans: Discussions for Foreigners (440d). 2:30pm, Rm 14N-221.

Solar Energy* — Peter Glaser, Arthur D. Little Co. Innovation Center Seminar. 3pm, Rm 33-319.

Geodetic and Geologic Evidence for Contemporary Doming of the Adirondack Mountains* — Y. W. Isachsen, New York State Geological Survey, Albany, NY. Earth & Planetary Sciences Colloquium. 4pm, Rm 54-425. Tea 3:30pm, Rm 54-923.

Exhibition and Demonstration of Chinese Calligraphy* — Demonstration by Lydia Chang, well-known calligrapher & artist, with exhibition including works done by students during IAP course (The Art of Chinese Calligraphy, 330a). Sponsored by MIT Chinese Students Club. Exhibit 10am-8pm, demonstration 7pm, Stu Ctr West Lng.

Ken Rogoff and the Biel Interzonal (335b)* — Ken Rogoff, chess master. 8pm, Stu Ctr Mezz Lng.

Thursday, January 27

Women in Management (207) — Harold Kellner, Phd. in Psychology & Edith Whitfield Seashore MA in Psych & Pres., NTL Institute for Applied Behavioral Science, Consultant. 10am-12n, Rm E52-143.

Neutron Molecular Spectroscopy (143)* — C. V. Berney & D. H. Johnson, nuclear engineering. 10am & 1:30pm, Rm 24-115.

Probing the Nucleus with Real and Virtual Photons* — June Matthews, physics. Lectures on Physics (177). 10:30am, Rm 6-120.

Theory of Molecule Surface Interactions* — Robert Silbey, chemistry. Symposium on Catalysis (46). 11am, Rm 4-231.

Comic Book Prices: Who Determines Value (380)* — Paul Hoffman, discussion leader. 11am, Rm 5-134.

Beyond Feminism: Enlarging The Creativity Range* — Virginia Gunter. Art Courses and Lectures (300). 12n-2pm, Stu Ctr Rm 429.

Corrosion Related Problems in Energy Conversion* — Roger W. Staehle, professor, director of Fontana Corrosion Center, Ohio State University. Materials Science and Engineering, Nuclear Engineering and Nuclear Reactor Laboratory Joint Colloquium. 2pm, Rm NW12-222. Coffee 1:30pm.

The Radiation Entry Barrier* — J. R. Baron, aero/astro. Aeronautics and Astronautics Highlights (4). 2pm, Rm 33-206.

Materials and Microelectronics* — K. Jones, Draper Lab., & H. L. Tuller, materials science. Materials and Microstructures. 2-4pm, Rm 13-2101.

Conics are Tangent to 5 Others? (108)* — Steven Kleiman, mathematics. 2-3:30pm, Rm 2-139.

Mathematics* — N. Kerzman, mathematics. Fourier Series Applied to Arithmetic (101). 2-3:30pm, Rm to be announced.

26Al in the Early Solar System* — Typhoon Lee, California Institute of Technology, division of geological sciences. Earth & Planetary Sciences Colloquium. 2:30pm, Rm 54-425.

Careers in Social Sciences, Planning, Architecture and the Humanities* — Association for Women Students Seminar. 3-4:30pm, Rm 3-310.

Climbing Mt. Everest* — Arlene Blum, Wellesley College. Chemistry IAP Special Event. 3pm, Rm 6-120.

Absolute Motion?* — Philip Morrison, Institute Professor, Physics. Lectures on Physics (177). 3:30pm, Rm 4-231.

Cloud and Weather Photographs* — Kerry Emanuel, graduate student, meteorology. Cloud Photo Show (121). 4pm, Rm 54-100.

Current Solar Energy Research at MIT — R. Thorton & G. Pratt, electrical engineering & computer science. Ecology Action Activities (440a). 7pm, Rm 66-110.

Lecture on Dimitri Hadzi's public sculpture* — Dimitri Hadzi. Sculpture Projects (236). 7:30pm, Rm 54-100.

Friday, January 28

Women in Management (207) — Three women in corporate positions in NY & Boston firms. 1-3pm, Rm E52-143.

Topics in Number Theory (Analytic) (107) — Dorian Goldfeld, mathematics. 2pm, Rm 2-135.

Intelligence — Ned Block, philosophy. Why Should Anyone Care Whether Intelligence is Inheritable? (170). 2pm, Rm 66-168.

Airports — Where They Are, Where They Are Going* — A. Odoni, aero/astro. Aeronautics and Astronautics Highlights (4). 2pm, Rm 33-206.

Hadrons as Strings* — Charles Thorn, physics. Lectures on Physics (177). 3:30pm, Rm 4-231.

Culture of Vascular Endothelium* — Dr. Michael A. Gimbrone, Jr., assistant professor of pathology, Harvard Medical School and Peter Bent Brigham Hospital. Arteriosclerosis Center Seminar. 4pm, Rm E17-421.

Monday, January 31

Arms Control* — George Rathjens & Ted Greenwood, political science. Political Science Seminar. 12n-1:30pm, Rm E53-482.

Melting of Thermoplastics in an Injection Molding Machine* — Robert E. Nunn, USS Chemicals. Mechanical Engineering Seminar. 3pm, Rm 37-212.

On Delay-Differential Systems and Certain Questions of Commutative Algebra* — Edward Sonntag, University of Florida. ESL Control & Communications Seminar. 4pm, Rm 39-500.

Tuesday, February 1

Scissile Bonds and Coal Conversion* — Heinz W. Sternberg, Lawrence Livermore Laboratories. Chemical Engineering Seminar. 10:30am-12n, Rm 66-110.

Diffusion Across Fractures* — Steve Richardson, Smithsonian Astrophysical Observatory, Cambridge, Ma. Earth & Planetary Sciences Colloquium. 4pm, Rm 54-425. Tea 3:30pm, Rm 54-923.

OB Associations, Giant Molecular Clouds and Star Formation* — Charles Lada, Center for Astrophysics. Astrophysics Colloquium. 4:15pm, Rm 37-252. Refreshments 3:45pm.

The Natural and Recombinant C-Type Proviruses: A Multigene Family Encoding Virion and Differentiation Antigens of the Mouse* — Richard A. Lerner, Scripps Clinic, La Jolla, Calif. Biology Colloquium. 4:30pm, Rm 6-120. Coffee 4pm, 5th fl vestibule, Bldg 56.

Thursday, February 3

Space Flight Via Maxwell's Equations: Constraint without Contact; Magnetic Lift* — Gerard K. O'Neill, Jerome Clarke Hunsaker Professor of Aeronautics and Astronautics (Visiting). Aero/Astro Special Seminar. 3pm, Rm 37-252.

Friday, February 4

The Growth Structure and Electronic Properties of Ultra Thin Al_xAs_{1-x} As-GaAs Heterostructures* — Raymond Dingle, Bell Laboratories. Center for Materials Science & Engineering Colloquium. 4pm, Rm 10-105. Refreshments 3:30pm.

Community Meetings

Wife's Group** — Group leaders: Charlotte Schwartz, sociologist & Myra Rodrigues, social worker, both from Medical Dept; Carol Hulsizer, faculty spouse in residence, Ashdown Hse. Wed, 2-4pm, Stu Ctr Mezzanine Lng. Babysitting Stu Ctr Rm 473, Cheryl, x3-4911. Jan 26: Informal group discussion of life in Poland, Australia, the Philippines, Greece and France.

Association for Women Students** — Planning meeting with discussion of upcoming meeting with director of admissions; other spring plans. Wed, Jan 26, 5pm, Rm 3-310. Refreshments.

Learning to Draw in One Day "The Natural Way"*** — Dick Stroud, artist & teacher. Free drawing session sponsored by Student Art Association, for beginners and others. Thurs, Jan 27, 12n-4pm, Stu Ctr Rm 429. Coffee available. Info: x3-7019.

MIT Women's Forum** — After IAP Social Mon, Jan 31, 12n, Rm 10-105. Join us for beverages & munchies to dispell that after-IAP letdown feeling.

Project MUG** — Microcomputer Users Group will meet Tues, Feb 1, 7:30pm, Rm 16-134.

Alumnae-Student Informal Dinner** — Come share an inexpensive meal (less than \$4) with women students and women alumnae. Meet Wed, Feb 2, 6pm, Zorba's in Central Square.

Low Back Problem Exercise Class* — Thurs, 1-2:30pm, Stu Ctr West Lng. Bring 3 pillows and an OK from your doctor. \$15/ea class. Info: x3-4138, Mon, 9am-5pm.

Social Events

Faculty Club Special Dinners*** — Fri, Jan 28: Fish Fry: chowder, seafood platter. Cost: \$4.95 + tax. RSVP, x3-4895.

IAP Strat's Rat — Sponsored by Student Center Committee. Fri, 8:30pm-2am, 2nd fl Stu Ctr. Beer & wine sold, requests and other good dancing music played by DJ. Free with college ID.

60's Rock Revival — Traditional rock revival updated a decade, sponsored by Student Center Committee. Fri, Feb 4, 8:30pm-1am, Sala. Beer & punch free. Come enjoy great dancing music! Admission \$1/prsn, \$1.50/cpl, college ID required.

Movies

Ecology Action Film Series (440a) — Wed, Jan 26. 11:30am-1pm, Stu Ctr West Lng

Invaders From Mars** — LSC. Wed, Jan 26, 7 & 9:30pm, Rm 26-100. Admission 75¢, MIT or Wellesley ID required.

Contraception, Pregnancy and Abortion: How About You: A Film on Birth Control and Sexuality; Young, Single and Pregnant; It Happens to Us; The First Days of Life — Sex Role Films (444a). Wed, Jan 26, 7pm, Rm 1-390. Optional 50¢.

The First Twenty Five Years — Nuclear Films (140). Wed, Jan 26, 7:30pm, Rm 9-150.

The Life Around Us: Should Oceans Meet — Sea Life Exhibit and Film Series (272). Thurs, Jan 27, 3pm, Stu Ctr Rm 500.

Class, Race, Age, Preference: Women Emerging: Comparing Cultural Expectations; Crystal Lee Jordan; I Am Somebody; Yodie; Continuous Woman — Sex Role Films (444a). Thurs, Jan 27, 7pm, Rm 1-390. Optional 50¢.

Ecology Action Film Series (440a) — Fri, Jan 28, 11:30am-1pm, Stu Ctr West Lng.

His Girl Friday** — LSC. Fri, Jan 28, 7 & 9:30pm, Rm 26-100. Admission 75¢, MIT or Wellesley ID required.

Wild Strawberries (Bergman)* — MIT Film Society. Fri, Jan 28, 7:30 & 9:30pm, Rm 6-120. Admission \$1.25.

You Only Live Twice** — LSC. Sat, Jan 29, 7 & 10pm, Rm 26-100. Admission 75¢, MIT or Wellesley ID required.

The Wizard of Oz** — LSC. Sun, Jan 30, 7 & 9:30pm, Rm 26-100. Admission 75¢, MIT or Wellesley ID required.

Silent Running** — LSC. Mon, Jan 31, 7 & 9:30pm, Rm 26-100. Admission 75¢, MIT or Wellesley ID required.

2 — Political Films (190). Mon, Jan 31, 7:30 & 9:30pm, Rm 6-120.

The Virgin Spring (Bergman)* — MIT Film Society. Fri, Feb 4, 7:30 & 9:30pm, Rm 6-120. Admission \$1.25.

Lobby 7 Events

Folk Dance Club* — Will be dancing Fri afternoons in Lobby 7 throughout the winter months. Come and join in! Fri, 12n-2pm, Bldg 7 Lobby. Free.

Music

Concert of Flemish Music of 1500* — Fri, Jan 28, 5pm, Bldg 13 Lobby. Sponsored by Music Section. Free.

Kontarsky Brothers in Concert* — Duo pianists Aloys & Alfons Kontarsky will give a concert Fri, Feb 4, 8pm, Kresge. Program: *En Blanc et Noir* and *Six Epigraphs Antiques* by Debussy, *Monument, Selfportrait, Motion* by Ligeti, and *Variations and Fugue* on a Theme by Beethoven, Opus 86, by Reger. Sponsored by MIT Music Section. Free.

Theater and Shows

Jacques Brel is Alive and Well and Living in Paris* — MIT Musical Theatre Guild production. Fri & Sat, Jan 28-29, 9pm, Stu Ctr Lobdell. Tickets \$3.50, \$2.50 with MIT ID. Group rates & info: x3-6294.

Misalliance* — MIT Dramashop production of George Bernard Shaw's play, directed by Joseph Everingham. Performances Fri & Sat, Feb 4 & 5, and Thurs-Sat, Feb 10-12, 8pm, Kresge Little Theatre. Tickets: \$2.50, \$1.50 on Feb 4, sold at door. All seats reserved. Reservations: x3-4720.

Dance

MIT Dance Workshop — Tues & Thurs evgs, 5-7pm, duPont Armory dance studio.

MIT Folk Dance Club — International: Sun, 7:30-11pm, Sala. **Balkan:** Tues, 7:30-11pm, Stu Ctr Rm 491. **Informal:** Fri, 12n-2pm, Kresge Oval (Bldg 7 Lobby in bad weather). **Israeli:** Thurs, 7:30-11pm, Sala.

Renaissance Dance* — Sponsored by MIT SCA. Beginners welcome. Wed, 8pm, Burton dining hall. Info: Beth Parkhurst, 964-1840.

Exhibitions

Lofts: How Artists Solve their Space Problems* — A multi-media display. Mon, Jan 3-Fri, Jan 28, Rm 7-304. Rotch Library Exhibit. Open daily.

MIT Faculty Club Exhibit* — Etchings and woodcuts by Nancy R. Davison. Thru Fri, Jan 28, Faculty Club.

Redesigning Architecture Headquarters: Results of the 1977 IAP Staff Design Studio* — Models and drawings on display thru Wed, Feb 2, Rotch Library, Rm 7-304. Info: x3-7053.

Experimental Photography: A Travelling Exhibit from the Visual Study Workshop, Rochester, NY* — Jointly sponsored by Creative Photography Laboratory and Visual Language Workshop. At Creative Photo Lab (Bldg W31-310) thru Jan 31. At Skidmore Rm (Rm 7-304) and adjacent corridor display cases Feb 1-Feb 15.

Works on Paper by Sculptors* — From the MIT Collection. Thurs, Jan 13-Sat, Feb 26, Hayden Corridor Gallery. Open daily.

The Iceberg and Its Shadow: Two Views* — Monumental glass structure environment by Calif artist Larry Bell. Exhibit Sat, Jan 15-Sat, Feb 26, Hayden Gallery. Hours: Mon-Sat, 10am-4pm. Configuration of *Iceberg* will be changed by Bell Feb 7-9, during viewing hours.

Strobe Alley* — High speed, photographs by Harold E. Edgerton, Institute Professor and Professor of Electrical Measurement, Emeritus. Bldg 4, 4th fl.

Hart Nautical Museum* — Permanent exhibit of rigged merchant and naval ship models of yachts and engine models. Open daily in Bldg 5, 1st floor.

MIT Historical Collections* — Permanent exhibition Mon-Fri, 9am-5pm, Bldg N52, 2nd floor. **Bicentennial Exhibits:** Katharine Dexter McCormick, '04; Vannevar Bush, '16; Karl Taylor Compton; and Norbert Wiener, 1876 exhibit, Bldg 4 corridor. **The New Technology Exhibit and Energy Exhibit:** 2nd floor balcony.

Facsimiles of Composers' Manuscripts* — Including Bach, Haydn and Beethoven. Music Library, Rm 14E.

Athletics

Home Schedule* — Wednesday, January 26 — **JV Hockey.** Thayer Academy, 3pm, ice rink. **M V Swimming.** Tufts, 6pm, Alumni Pool. **Friday & Saturday, January 28 & 29 — V Wrestling.** Central Conn, NY Maritime, Penn. Fri 11am & 2:30pm, Sat 1:30pm, duPont wrestling rm. **Saturday, January 29 — JV Hockey.** Lawrence Academy, 2pm, ice rink. **V Squash.** Fordham, 10am, duPont squash courts. **JV, V Squash.** Amherst, 2pm, duPont squash courts. **M Swimming.** WPI, Lowell, 2pm, Alumni Pool. **Monday, January 31 — JV Squash.** Brooks, 3:15pm, duPont squash courts. **Tuesday, February 1 — W Swimming.** SMU, 7pm, Alumni Pool. **Wednesday, February 2 — M JV, V Basketball.** Amherst, 6:15 & 8:15pm, Rockwell Cage. **W V Fencing.** URI, 7pm, duPont fencing rm. **W Gymnastics.** URI, 7pm, duPont Gym. **JV Hockey.** Emerson, 4pm, ice rink. **V Squash.** Tufts, 7pm, duPont squash courts. **M Swimming.** Amherst, 6pm, Alumni Pool. **V Wrestling.** Boston College, 7pm, duPont wrestling rm. **Thursday, February 3 — W Swimming.** Boston College, 7pm, Alumni Pool. **JV Wrestling.** Emerson, 7pm, duPont wrestling rm. **Friday, February 4 — W V Basketball.** BU, 7:30pm, Rockwell Cage. **Saturday, February 5 — M JV, V Basketball.** Clark, 6:16 & 8:15pm, Rockwell Cage. **W & M V Fencing.** Holy Cross, 1pm, duPont fencing rm. **M Gymnastics.** Coast Guard, 2pm, duPont Gym. **V Hockey.** Bates, 7pm, ice rink. **W & M V Swimming.** Trinity, 2pm, Alumni Pool. **JV, V Squash.** Williams, 2pm, duPont squash courts. **V Squash.** Bowdoin, 4pm, duPont squash courts. **V Wrestling.** Williams, 2pm, duPont wrestling rm.

Maggie's Self-Designed Fitness Class — Classes 12n-1pm, duPont fencing & wrestling rms. PE credit course, but all are welcome.

MIT Scuba Locker** — Scuba gear may be rented at Alumni Pool by appointment only during winter months. Call 492-8322.

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

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

Send notices for Feb 2 through Feb 13 to the Calendar Editor, Room 5-111; Ext. 3-3270, before noon Friday, Jan 28.

CLASSIFIED ADS X3-3270

Ads are limited to one per person per issue and may not be repeated in successive issues. All ads must be accompanied by full name and Institute extension. Only Institute extensions may be listed. Members of the community who have no extensions may submit ads by coming in person to the Tech Talk office, Room 5-111, and presenting Institute Identification. Ads may be telephoned to Ext. 3-3270 or mailed to Room 5-111. **Please submit all ads before noon, Friday, Jan 28. They will be printed on a first come first serve basis as space permits.**

For Sale, Etc.

Pr snows, 6.50x15L, used 1 seas, w/rims, for VW Sqbk, \$25. Nate, x3-1852.
Flr pillows, \$2/ea; dbl bed, \$20; 3 bkshlvs, 36x26x9, \$3/ea; sturdy desk w/chr, \$25; lg set wdn shlvs, 45x-45x12, \$8. Randy, 235-5438.
Compl compact stereo, b nw, amfm, phono, 8 trk player-recdr, w/pr 3-way spkrs, \$150 or best. Rick, 262-7394.
Aquad, 10 gal, compl w/2 pumps, fltr, htr, wrought iron stand, xtras, used 3 mos, \$30. Dick Moore, x3-7739.

INSTITUTE NOTICES

APO Afterfinals—One week away at a Boy Scout camp, working together on major renovations sponsored by the AX chapter of APO. Jan 25-31, Treasure Valley Scout Camp. It will be possible to come along for any part of the week. Call x3-3788 for transportation arrangements.

Echoes

January 22-January 28

50 Years Ago

At the annual banquet of *The Tech*, Mr. Oswald G. Villard, editor and owner of *The Nation*, addressed the gathering on the subject of freedom of expression. Mr. Villard stated that we must have either absolute liberality or despotism such as that exercised by the dictator Mussolini over the Italian press.

40 Years Ago

In an exciting game before 200 spectators, MIT's basketball team defeated Tufts College, 28-27.

25 Years Ago

Wilfred Roth, '48 and co-inventor Stanley R. Rich announced the development of an electronic testing instrument designed to tell whether a person is mentally ill. The instrument makes use of ultrasonics and will in some cases eliminate the necessity for long expensive psychiatric tests.

Prepared by Marcia Conroy, MIT Historical Collections, x3-4444.

TECH TALK
Volume 21, Number 23
January 26, 1977

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Girl 3 spd prpl 24" bike, \$30; boy blu 20" bike, \$15; prpl girl 20"; bike, \$15; exc cond. Doris Adams, x7155 Linc.

Xcntry ski boots, sz 8, lk nw, \$10; 3 karate suits, sz 3, 4 & 5, \$5/ea. Carolyn, x3-3045.

Dynaco stereo, perf cond, PAT-4, \$60; FM-5, \$110. Dave, x3-7423.

Sears 5x7" qn sz xtra firm bed, matt & box spr, ctn, \$125; Michelin 4.25x18 hi spd mtrcycl tires, b nw, \$30; Norton 750 cc Atlas cyl head, not too ctn but disassembled & compl, \$50 or offer. Jim Corning, x3-3157, lve msg.

Morse port elec sew mach, all attach, nvr used, \$75; 15 gal aquar compl w/chrome stand, access, \$25. Call 484-0680, evgs.

Glenwood gas on gas stove, exc cond, ctn, 4 yrs, ask \$175. John, x8-2722 Draper.

Girl dance costumes, sz 6, 8, 10, \$12/ea; girl tap shoes, asst szes, \$4/ea; Regina flr polisher, \$25; Farberware broiler, \$25. x8-4085 Draper.

Underwood "Five" manual office typwrtr; B&D saber saw (jigsaw); best. x3-7805, lve msg.

Pr mtd snows, 6.95x14m from Ply Duster. Brett, x3-5932.

Olivetti manual port typwrtr, \$25. Betsy, x3-2697.

Motorola 21" console clr TV, \$220 or best; 12" b&w port, \$50. Paul, x5-7505 Dorm.

Pr Ohm C spkrs, 3 1/2 yrs, exc cond, \$200. Mike, x3-7010.

AGFA-Gevaert Rapidoprint LD-14 w/chemicals & paper, \$250. Strobe Lab, Rm 4-405, x3-4629.

Sears crib, yr old, \$50; crib sheets, blnkt, entertainer, \$10; carseat, \$5; jumper, \$3; paddling pool, \$5; hichr, \$5; everything \$70. Ken, x3-3244.

Panasonic 12" port b&w TV, exc cond, 2 yrs, \$70 or best. x3-3503.

Bauer girl toddler sz 9 wht ice skates, sgl runner, yr old, lk nw, \$23 nw, ask \$15. Tony, x8-3051 Draper.

Pr 7.0x13 4 ply nylon snows, lk nw, \$25 or best. x5-6632 Dorm.

HP-25, \$95. x5-9461 Dorm.

Humanic Victory Racer, m 9 1/2 ski boots, list \$140, b nw, \$55 or best. Andy, x3-3256.

Pioneer 424 revr, 2 yrs, exc cond, \$110; pr Acoustiphase spkrs, 6 1/2" woofer, 1" tweeter, ported, effc sys, 48 Hz-20 kHz response, \$75/pr. x5-9440 Dorm, evgs.

Slide proj, \$10; steam iron, \$5; comf chr w/match crtns, \$10; air hockey tbl game, \$10; racoon hat, nvr worn, was \$75, \$30; long sz 14 skirts, \$5. Gundersen, x3-6085.

Returning to Eng, must sell nrly nw twin sz matt, \$18; cork coffee tbl, \$3; pine shlvng, cheap. x3-3854.

Pr SWTPC Universal Tiger amps, equals 1 stereo amp, has xtra massive ht sinks & cstm wint cab, \$110 or best; AR revr, recently srved by fac, 60 W/ch at 8 ohms, \$200 or best. Call 646-3427.

Mtrcycl: '70 BSA 500, 16 K, stripped bolt in carb, nds taillight, \$300; SLR camera, Canon FTb w/50 mm f1.8, 135 mm f2.8, 2X converter, barely used, \$250; Silvertone elec guitar & Kalamazoo amp, \$50. Tom, x3-2310.

Desk; chest; bureau; tbl; 3 bikes; Baldwin organ, \$4,500. Call 862-5122.

Remington 6 elec shaver, exc cond, incl 3 nw replacement blades, \$15. x3-3106.

Gen Rad pine chests, exc for storage, toy chest, valubles, furn & shipping, 3 mdls, \$10 & up. x5-6676 Dorm.

Epiphone hollow body elec guitar w/case, perf cond, ask \$100. Brad, x5-8316 Dorm, kp try.

(3) K chrs, \$5; twb bed, \$20. x3-5318.

Regency scanning monitor revr, 10 chnl, w/crystals, exc cond, orig \$189, ask \$100. x3-5374.

Kitchenaid dishwasher, conv port, 7 yrs but nw motor last yr, works but nds repairs, best offer takes away. Willie, x7178 Linc.

Sears Craftsman metric comb wrenches, 10 pc asst szes, 6-19 mm, nw, indiv \$29, set \$24; Xcelite H56-18 hollow shaft nutdriver set w/case, 10 pc asst szes, 3/16-9/16", exc cond, \$15. John, x7837 Linc.

Gdrich Slvrtown H78x15 stud snows w/rims, lo mileage, \$30/pr. Ed, x7695 Linc.

Ampex AX-50 open reel tape deck + 50 reels of tape. Jonathan, x3-2521.

Audio Vox fm converter & cassette player, nvr used, orig \$55, \$40. Walter, x5-8273 Dorm.

Konica Autoreflex T-3 SLR camera w/f1.7 lens, also 28 mm f2.5 Vivitar wide angle to fit, bought Christmas '76, w/cases, \$275. Mark, 876-2360.

Army coat, removable wool liner. x3-6550.

(2) sgl bed box spr, gd cond, \$15/ea. Candy, x3-6534.

Pr tckts Sun, Jan 30 concert, 3pm, Symph Hall, Hungarian Gypsy Orch dances, \$4.50/ea. Wm Lobar, x183-0 Bates Linear Accel.

Wd full bed w/matt, box spr, \$60. Lloyd, x3-2215.

Sofabed; brick shlvs; dresser w/mirror; closet; nite tbl; study desk; bridge tbl; nw Sony color TV; lamps; armchr; humidifier; vac; crtns; etc. Call 494-0340, aft 4pm.

Nw m Persian lamb skin med sz coat, \$35; cstm amfm stereo radio & 8 trk, 20 W, 6 mos, \$50; Zenith 24" b&w TV, remote cntrl, great frame & spkrs, brkn, \$15. x3-7489.

(3) tbl lamps, \$4/ea; hot plate brnr, \$2. x3-7138.

Vehicles

'65 Ply sed, body dented, gd mech cond, slant 6 eng, snows, make offer. Ed, x8-1325 Draper.

'66 Ford Mustang, b nw batt, radiator nds fixing, nw muff, \$150. Dushan, x5-9657 Dorm.

'70 VW 9 psgr van, v gd cond, eng just reblt 6 mos ago, 6 K grnty, \$1,500. Dave, x3-2336.

'71 Peugeot 304, nw tires, nw muff, std, 4 drs, 52 K, \$1,000. Chopra, x3-3679.

'71 Vega Htchbk, amfm tape deck, snows, 39 K, gd mileage, \$900. Jeff, x3-4327.

'71 Buick Skylark, 2 dr, exc cond, 47 K, stud snows, \$1,100. Sam, x3-6748.

'72 Dodge Colt hdtv cpe, 4 spd, stl radials, 31-34 mpg, hi mileage but mech sound & v ctn, no work ned, exc winter starter, \$800. Call 779-6473.

'72 Vega cpe, 48 K, exc mech cond, nw brakes, clutch, muff, radials, \$650. Call 864-6379.

'72 Volvo 145S, 46 K, ctn, \$3,600 or best. Kate Herzog, x3-7744.

sequent meetings to be scheduled.

Graduate Studies

United Nations Graduate Student Intern and Study Programs

The United Nations Office of Public Information will conduct a four-week Graduate Student Intern Program at UN Headquarters in New York from July 25 to Aug 19, 1977, and a Graduate Student Study Program at the European Office of the UN in Geneva from Aug 8 to Aug 26, 1977. The aim of the programs is to provide an opportunity for an international group of students to deepen their understanding of the principles, purposes and activities of the UN and its related agencies. No stipend or travel expenses are provided. Deadline: March 15, 1977. Contact: Graduate School Office, Rm 3-136.

Medical Insurance Waivers Due

All students are reminded that they will be enrolled automatically in the Student Hospital and Accident Insurance Plan (cost \$55.00) for the spring term unless an insurance waiver has been filed with the Medical Department Insurance Office. Waivers may be obtained from and filed with Norma Loomis, Room 12-134.

New UROP Listings

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

Development and Aging Boston Biomedical Research Institute

This project would test the developmental theory of aging which suggests that the biochemical changes associated with aging are similar to those associated with early development. The project will seek to interrupt normal development of the nematode *Caenorhabditis elegans* by inducing nutritional deficiencies or by using metabolic inhibitors. The effect of arresting normal development on the life span will then be studied.

Chemical Engineering Department

A research project is available in the chemical engineering department in the application of data base management systems in chemical process simulation. Students should have had some exposure to these systems and will work with a team of chemical engineers and make recommendations regarding the suitability and application of commercial DBMS. UROP project or senior thesis. Pay available. Contact Prof L.B. Evans, Rm 66-405, x3-4580, or Dr. B. Joseph, Rm 66-224A, x3-6500.

Graphical Communications at the Architecture Machine

Students are encouraged to participate in an ongoing project in computer graphics, centered around the notion of using hand-drawn sketches as an input medium. Research is also proceeding in programs for interactive manipulation of two and three dimensional descriptions. Available hardware includes a large selection of data tablets, storage tubes, refresh displays, and raster scan displays, connected to a set of dedicated mini-computers. Contact: Christopher F. Herot, Rm 9-512, x3-5158.

Mass General Hospital: Anesthesia Department

A project is available with the Bioengineering Unit, Department of Anesthesia, Mass General Hospital, involving the development of various schemes for measurement of anesthetic agents and/or expired gasses during anesthesia. They have in mind certain techniques and devices which require testing and evaluation. The project would involve some circuit design and fabrication. A junior or senior level student with some laboratory and practical circuit design experience preferred. Distribution of ¹⁴C Within the Red Blood Cell

This project is involved with the study of the distribution of ¹⁴Cr between the protein and non-protein portion of the red blood cell cytoplasm. The primary techniques involved in this study will be gel filtration and disc gel electrophoresis and applicants with a background in chemistry or biology are preferred. Major experimental portion will be conducted at the Naval Blood Research Laboratory (Boston University Medical Center). Contact: Dr. Nicholas Catsimpoalas, x3-6791.

Department of Nutrition and Food Science

A project is available that involves studying the physical and functional properties of plant cell wall tissue suspensions. Dried cell wall tissue will be added to water at various temperatures and increase in mixture viscosity noted as a function of time, pH and presence or absence of ions. Similar studies will be done with undried cell wall tissue subject to various heating-cooling cycles. For credit only. Contact: Prof ChoKyun Rha, x3-3492, or Brad Holmes, x3-3688.

Thursday, Jan. 27
2-3pm

THE END OF OBJECTIVITY NO. 2 By Professor Giancarlo Rota. Concourse Lecture Series.

8-9pm

THE END OF OBJECTIVITY NO. 2

Friday, Jan. 28
2-3pm

THE END OF OBJECTIVITY NO. 3 By Professor Giancarlo Rota. Concourse Lecture Series.

8-9pm

THE END OF OBJECTIVITY NO. 3

Monday, Jan. 31
2-3pm

THE END OF OBJECTIVITY NO. 4 By Professor Giancarlo Rota. Concourse Lecture Series.

8-9

THE END OF OBJECTIVITY NO. 4

Tuesday, Feb. 1
12noon-1pm
2-3pm

TUESDAY NOON THE END OF OBJECTIVITY NO. 5 By Professor Giancarlo Rota. Concourse Lecture Series.

8-9pm

THE END OF OBJECTIVITY NO. 5.

CABLE TV SCHEDULE X3-3625

January 26-February 1

Channel 8
Wednesday, Jan. 26
12noon-2pm

MIT COLLEGE BOWL Recorded live at Kresge on Jan. 20. Produced by Jonathan Braunhut. THE END OF OBJECTIVITY NO. 1 By Professor Giancarlo Rota. Concourse Lecture Series.

2-3pm

8-9pm

THE END OF OBJECTIVITY NO. 1

'73 VW bus, exc cond, std, CB antenna, amfm radio, carpet, must sell. Betty, x3-7008.

'74 Audi 100LS, 4 dr, grn, auto, sunrf, amfm w/tape deck, rear defogger, reclining seats, 39 K, reasonably priced. x3-2772.

'74 Dodge van, roof extension, radio, radials, paneling, carpet, \$3,500. Barry, x3-7233.

'75 Dodge Colt Cstm, vinyl roof, auto, 16 K, exc cond, \$3,200. Ginny, x3-3651.

'76 Vega (T Htchbk, 4 spd, vinyl int, mag whls, many xtras, \$1,350. Roman, x8-3725 Draper.

'76 Dodge Cstm 5 psgr sport van, 7 K, auto, p st & br, radio, rust proofed, \$5,400 or best. x7643 Linc.

Housing

Bos, lg 2 Br apt, Commonwealth Ave, avail for sub now, Kette, washer/dryer, gd loc. Call 262-5090, evgs.

Camb, nr Harv Sq, BR, frpl, avail 3/1, \$239 w/ht. x3-5124.

Camb, Comm Ave nr Harvard Ave, lg studio w/alcove, conv loc ideal for stu. Call 232-5686, aft 1pm.

Jamaicaway, BR, nr T, \$183 incl ht. x3-1502, 11:30am-1pm.

Bridgton, Me., Pleasant Mtn ski area, lg A frame chalet avail during wk, some wknda, v conv loc, no driving exc there, exc slopes & ski condit, beaut marked Xcntry trails on lake, in wds, all util provided. Call 1-358-7884.

Wht Mtns, 3 BR chalet w/frpl, nr major ski areas, secluded loc, exc Xcntry, \$150/wk, \$100/mid-wk. Steve, x5584 Linc.

Conway, NH, ski lodge, slps 30, avail M-F. Charlie, x3-2704.

Still space avail at Talbot Hse on wkdays in Feb, wknds have been scheduled. Preprofessional Office, Rm 10-186, x3-4158, for info & applications.

Camb, lg stu w/gd closets, pool, free pkg, AC, gd security, sub avail 2/6, pets allowed, grad stu w/income or prof pref, \$225 incl ht & gas. Call 492-8313, aft 6pm.

Animals

Welsh terrier w/papers nds home w/plenty of love & attention, he's hsebrkn. Call 864-4625, aft 5pm.

Lost and Found

Lost: M gold watch w/Elmore timepee, at duPont or on Mass Ave, Jan 10, \$30 reward, no questions. Mindy, x3-6327.

Found: f wristwatch in Bldg 7 Lobby, call 266-1977 to identify, aft 6pm.

Wanted

Used piano, up to \$400. Tom, x3-7859.

Wden mast, min 20". Leonard, x8-1365 Draper.

Pr f sz 8 ice skates. Carol, x3-4675.

Rm in Cambport or nr Institute, Feb 1, low rent & pleasant living conditions. Dave, x5-9643 Dorm.

Ride wanted to Phila, wknd of Jan 28. Christina, x3-5324.

Mtl turning lathes willing to make some repairs. x3-2250.

Rear bike whl, 26", w/coaster brake attach. Al Saxe, x3-5117.

Roommates

Rmmate for 5 rm apt in Belmont hse, share w/1 prsn, nr T, bkryd & grdn, \$122.50 + util. Phil, 484-6558, aft 4pm.

Rmmates, 2, 1st fl 2 fam hse in Watertown, sgl rm for ea, 50 yds bus stand, \$84 + ht. Petros, x3-6644.
Share cntry farmhse, 30 acres wds & fields, 8 frpl, 35 min north of Camb, sgl prsn over 25 pref, \$120 incl util. Call 1-887-5900, evgs.

Own BR in 2 BR apt, share K, B, L.R, semi-furn, v ctn, 10 min walk MIT, \$82 + gas, elec. Mohamad, x3-3211.

Prsn 25+ to share Lex hse w/m, 2 f, 13 yr old child, own rm, common K, grnhse, etc, on bus to Harv Sq. Call 862-9506, evgs.

Spac furn rm w/frpl, priv B, K priv, on bus line, ovrlks Fresh Pond, qt, secl, priv, avail immed, \$50/mo in exch for responsibility of dog-sitting, maintenance. x3-6155.

M sought for big coed Bkline apt on T, mid-20's pref, \$102 incl util. Call 731-4994.

Rmmate, pref f, nded immed, 5 rm apt off Harv Sq, on bus to MIT, off Mass Ave, own rm, rent approx \$120. Call 494-8243.

Camb, BR avail in 3 BR apt w/K, LR, B, \$60 + elec. Glenn, x3-2245.

F to share Bkline 6 rm apt, 3 BR, L.R, DR, washer, \$137.50 incl ht. x3-6196.

Carpools

Nd ride from Allston-Bri to Draper, M-F, 8-5, or 1 way, w/ pay. Vivian, x8-3204 Draper.

Miscellaneous

CWSP grad stu to work The Tech indexing project, \$3.50/hr, your hrs, work at home. Dave Boccuti, x3-1541.

May's wake-up srvc, never be late again, w/ call anywhere metro Bos area, \$5/mo. J. May, x8-2843 Draper.

Wl type theses, manu, reports, fast & accurate. x3-4528.

Typing, tech, theses, manu, etc. IBM Selec. x3-1566.

Typing, fast, accurate & reliable. Jean, 628-8271.

Typing, tech, theses, manu, etc. IBM Selec. x3-5705.

Wl do tech, stat, thesis typing, IBM Correct Selec. Shelly, x3-2686.

Wl do gen, tech or thesis typing, IBM Selec. x3-1713.

Wl stu who tape-recorded Air Pollution Conf, Dec 2-3, pls contact Prof Friedlaender, x3-3456.

Symphony Orchestra Record Issued

(Continued from page 1)

mith's *Der Schwanendreher*, all with violist Marcus Thompson as soloist. Associate professor of music in the MIT Department of Humanities, Thompson is regarded as one of the brilliant solo violists of his generation. He was soloist with the orchestra in a performance of *Der Schwanendreher* at the Kennedy Center last April. Paul Hume, in a *Washington Post* review of the concert, called Thompson "an elegant musician who plays with great style and handsome silky tone." Two years earlier Raymond Ericson, in reviewing a New York recital in *The New York Times*, wrote, "...he played with the authority of a mature artist. He combined vigor and sensitivity, rhythmic power and tonal color, attesting to the complete interpreter."

The third record, expected to be released in the fall of 1977, will feature Abbott Ruskin as piano soloist in the Samuel Barber Piano Concerto and the Copland Piano Concerto. Ruskin has won numerous prizes and has performed as soloist with such leading American orchestras as the Chicago Symphony, Minnesota Symphony, and the Philadelphia Orchestra.

The fourth record will include the first recording of David

Epstein's *Night Voices* with Janet Bookspan as narrator.

Epstein, professor of music in the MIT Department of Humanities and for the past 12 years conductor of the MIT Symphony Orchestra, is a composer and critic as well as a teacher and conductor. His compositions have been performed at numerous concert series in the US and Europe, including the Aspen Music Festival, International Society of Contemporary Music, Boston Symphony Chamber Players, Philadelphia Quartet, the Louisville Orchestra, South German Radio Orchestra, and other major ensembles. He has received awards and commissions from, among others, the Fromm Foundation, New York State Council for the Arts, Ford and Rockefeller Foundations, and the Louisville Orchestra. Many of his works have been recorded. His reputation as a conductor has grown over the past decade. Most recently he has been guest conductor with the Royal Philharmonic Orchestra in London, the Vienna Tonkünstler-Orchester, the Bavarian Radio Symphony Orchestra, the Jerusalem Orchestra, and the Berlin Radio Symphony.

The MIT Symphony Orchestra, formed in 1884 and a vital part of MIT's music program, is com-

posed of more than 90 musicians from the MIT and Wellesley College communities. The orchestra annually presents four concerts in MIT's Kresge Auditorium and goes on a spring tour. Its repertoire combines standard works with contemporary music by major and younger composers.

The orchestra has won considerable critical acclaim. Paul Hume, in reviewing the Kennedy Center concert, wrote in *The Washington Post* that the players "offered their Kennedy Center audience a program that would greatly honor the lists of any of our major orchestras. It was of a kind that the majors all too rarely put together." A *New York Times* critic wrote after a Carnegie Hall concert, "Shades of Leonardo! There is a new Renaissance in the making. The Massachusetts Institute of Technology Symphony Orchestra played at Carnegie Hall... and it was hard to tell the engineers, physicists, chemists or whatever from the musicians, everyone having played so well. It was a concert that would have been a credit to a professional orchestra." And from the *San Francisco Chronicle*: "The Orchestra is on a par with the best of the country's metropolitan orchestras."



IT'S OFFICER GLAVIN AND OFFICER GLAVIN now, following the marriage Saturday of Campus Patrol Officers Anne Romano and Michael Glavin in the MIT Chapel. The officers met while assigned together on cruiser duty. They will return to their patrol posts following a brief honeymoon. Officer Anne Glavin, who describes herself as a traditionalist, says she is not at all concerned about the possible confusion that may arise from having two Officers Glavin on the campus force.

—Photo by Cathryn M. Chadwick

POSITIONS AVAILABLE

This list includes all non-academic jobs currently available on the MIT campus. Duplicate lists are posted on the Women's Kiosk in Building 7, outside the offices of the Special Assistants for Women and Work (10-215) and Minority Affairs (10-211), and in the Personnel Office (E19-239). Personnel interviewers will refer any qualified applicants on all biweekly jobs as soon as possible after their receipt in Personnel.

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

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

Dick Higham	3-4278
Pat Williams	3-1594
Carolyn Scheer	3-1595
(Secretary — Ann Perkins)	
Virginia Bishop	3-1591
Mike Parr	3-4266
Ken Hewitt	3-4267
(Secretary — Paulette Chiles)	
Sally Hansen	3-4275
Lewis Redding	3-2928
Richard Cerrato	3-4269
(Secretary — Jenni Leibman)	

NOTE: Effective with jobs opened 1/11/77, Sponsored Research Staff positions will be identified by an "R" prefix. (Sponsored Research Staff positions opened prior to that date are identified by a "D" prefix.)

Admin. Staff, Industrial Liaison Office, in a Program providing interface among MIT faculty, staff and representatives of member companies of Program. Will also solicit new member companies. Position involves extensive foreign and domestic travel. A Bachelor's degree in a science or engineering field, as well as Master's degree, or equivalent experience required. Candidates should also possess a management perspective and have at least 2 years industrial experience. A77-1 (1/26).

Admin. Staff, Systems Programmer, in Information Processing Services Programming Development Office. Primary duty will be performing quality assurance for MULTICS system; test and integrate changes; carry out crash analysis and performance tuning. Experience in systems, systems programming, PL/I, knowledge of MULTICS or other advanced time sharing systems required. Applicants should have a Bachelor's degree or equivalent combination of education and experience. A77-3 (1/26).

Acad. Staff, Tech. Asst. to assist in Biology Dept. research involving isolation and physical characterization of key components of the blood coagulation systems by which components interact in fulfilling their physiological roles. Bachelors degree, a background in physical chemistry and some background in biochemistry required. Good laboratory skills also necessary. C76-14.

Sponsored Research Staff, Programmer, half time, for a Laboratory for Nuclear Science study to determine the feasibility of the use of a remote computer via Multics and the ARPA net as well as use of networks for mail teleconferencing, etc. Applicants should be experienced in teleconferencing message systems on networks, design of large data bases and the programming language used on IBM, CDC and Honeywell computers. The ability to write network protocols as well as in depth knowledge of Multics system and the ARPA network, and a Physics background also necessary. Half-time appointment. B77-13 (1/26).

Sponsored Research Staff, Staff Petrographer, in Earth and Planetary Sciences to examine and describe thin sections and crack sections of terrestrial rocks with standard and scanning electron microscopy; do compositional analysis of rocks using electron microprobe and x-ray diffraction equipment; prepare technical and petrographic

reports. Coursework in petrology equivalent to MS level, experience in using and interpreting data from electron microprobe, scanning electron microscope and x-ray diffraction equipment required. R77-14 (1/26).

Sponsored Research Staff, in the Center for Cancer Research Immunology Laboratory. Will immunize, bleed and breed mice; purify cells and proteins; culture cells. Position also involves work with radioactive isotopes. Bachelor's degree or equivalent combination of education and experience required. R77-12 (1/26).

Sponsored Research Staff, in Mechanical Engineering to develop hardware and software for a computer controlled ultrasonic system for Cancer treatment and have primary responsibility for overall system integration. A Master's degree in Electrical Engineering (or equivalent), several years laboratory or industrial experience in digital circuit design and software development required. Analog circuits experience preferred. R77-9 (1/19).

Exempt, Real Time/Diagnostic System Programmer at Haystack Observatory to develop, maintain and improve software systems which support real time control of a new complex long range high resolution radar system. May work on application of computers to radio astronomy data processing. A Bachelor's degree, or equivalent experience, plus a minimum of 2 years programming experience required as well as a good mathematical background. Engineering or physics background and experience on Data General or other mini-computers also desirable. Position occasionally involves irregular work hours. E77-5 (1/26).

Exempt, Supervisor, in the Center for Cancer Research Animal Laboratory to transplant tumors; maintain mouse breeding colonies; maintain complex transplant, immunization, breeding records; collect data on newly arrived laboratory animals; schedule use of and maintain facilities in operating room. Ability to collect and record precise information required. 1-2 years in a college level biology program or related laboratory experience required. E77-2 (1/19).

Exempt, Mechanical Shop Supervisor, in Physical Plant to supervise the maintenance and operations activities of Physical Plant Mechanical Shops; direct and coordinate supervisory and other employees in performance of their duties. Prepare work schedules, monitor performance of tasks; coordinate work with other shops and be fully responsible for the maintenance and operation of all building mechanical systems assigned to mechanical shops. Extensive experience in maintenance and operation of large commercial and/or institutional building mechanical systems; five years in a supervisory position and demonstrated leadership qualities and ability to supervise building mechanical maintenance operations required. Applicants must also have oral and written communication skills. E77-3 (1/19).

Secretary IV in the Counseling section of the Dean for Student Affairs Office to perform varied secretarial duties relating to student counseling functions, special student programs, seminars; handle accounts; assist students in counseling and procedures matters. Opportunities exist for writing assignments. Excellent typing and machine transcription skills, familiarity with office procedures required. Candidates should be able to set priorities, to guide others, and to deal sensitively with people and confidential information. B77-4 (1/12).

Secretary IV-V to the Executive Office, Office of the Provost to perform general secretarial duties which include report typing; maintenance of special project files; arranging meetings and appointments; processing of special funding requests. Candidates must be able to operate IBM Executive typewriter and to handle figures with accuracy. 40 hr./wk. B77-27 (1/26).

Secretary IV in the Information Processing Center to perform secretarial duties for Director of Computer Services, Academic and Research, and other professional staff; transcribe and type machine dictation; set up and maintain a filing system; schedule meetings and maintain calendar; coordinate public relations for educational courses, demonstrations and other events. Will work with computer based document preparation systems. Several years of secretarial experience, excellent general secretarial skills required. Competence in computational skills desirable. B77-23 (1/26).

Secretary IV to the Director of Alumni Records, Alumni Association to handle varied secretarial and general office duties: type correspondence, reports; answer phone inquiries; maintain files. Secretarial experience, good typing and organization skills required. Applicants must be able to set priorities and work independently. Ability to use MTST equipment (or willingness to learn) also necessary. B77-33 (1/26).

Secretary IV to Earth and Planetary Sciences geophysics faculty and research staff members to handle general secretarial duties including typing of technical manuscripts; scheduling appointments and travel. Excellent typing, ability to type technical material, English grammar skill, ability to proofread and perform light editing duties required. B77-28 (1/26).

Secretary IV to Sloan School faculty member working in finance and investment securities

fields. Handle volume correspondence and manuscript typing, including some technical data. Arrange appointments and travel; do occasional library research. Position includes opportunity to learn securities field. Excellent typing, organization skills and telephone manner required. Familiarity with investment securities and options helpful. B77-30 (1/26).

Secretary IV to two Civil Engineering faculty members working in the field of water resources. Type technical materials; prepare course material; schedule meetings; monitor research accounts. Ability to assess priorities, to handle several projects simultaneously required. Excellent technical typing and general office skills necessary. B77-26 (1/26).

Secretary IV in the office of the Associate Dean, Sloan School of Management to handle varied secretarial duties related to School's teaching programs; arrange meetings and seminars; maintain Dean's appointment calendar; answer phones; interact with School faculty and representatives of outside organizations. Excellent secretarial skills, including shorthand, secretarial experience and ability to organize required. College training preferred. B77-31 (1/26).

Secretary IV to 3 Biology faculty members; type correspondence and scientific manuscripts; arrange travel; answer student inquiries; handle purchasing procedures; maintain expense records; assist in budget preparation. Excellent typing, ability to organize and complete work with minimal supervision required. Familiarity with MIT accounting and purchasing procedures desirable. B76-488.

Secretary III-IV, part-time, to two faculty members in the Center for Cancer Research to type correspondence, grants, manuscripts; maintain grant records and files; handle general office duties as required. Good typing and general office skills required. Familiarity with chemical and biological terminology and knowledge of MIT procedures helpful. 30 hrs./wk. B77-29 (1/26).

Secretary III-IV, in Mechanical Engineering. Will independently answer routine inquiries; monitor accounts; arrange conferences and social meetings; prepare course materials, correspondence, reports including some technical material; maintain student and faculty groups. Secretarial school training or equivalent experience, shorthand and machine dictation skill required, as well as ability to type technical material. B77-15 (1/19), B77-21, B77-34 (1/26).

Secretary III-IV in Resource Development to handle general secretarial duties: arrange travel; type correspondence; answer phones; transcribe machine dictation. Excellent typing, ability to type letter-perfect copy, on occasion, and to exercise initiative and judgement required. Secretarial school training and/or secretarial experience required. B77-16 (1/19).

Accounting Clerk/Secretary III in the Student Accounts Office to assist in the preparation of degree list candidates; assist in the review of students' financial status, perform typing of letters, filing, maintain office supplies, petty cash; answer general questions. Ability to deal with students in a very busy atmosphere required. B77-18 (1/19).

Senior Clerk IV in the Student Accounts Office to review contracts of students sponsored by various agencies and perform the billing collection, etc. To assist with the computerized accounting controls of a large receivables system. To maintain time and payroll records. Good knowledge of accounting procedures and of computerized operations required. B77-19 (1/26).

Sr. Clerk III in Nutrition and Food Science headquarters to handle various duties; prepare and process billing; maintain supplies; file; type forms, report drafts; act as messenger; assist secretary with duties as necessary. High school graduation, or equivalent, good typing skill and facility with figures required. B77-32 (1/26).

Sr. Clerk III, in the Accounts Payable section, Comptrollers Accounting Office will process invoices; apply discounts; audit invoices; accumulate data on outstanding commitments, on dollar volume totals; prepare records for keytype entry. Ability to operate adding machine and to work with figures required. Candidates should have 1-2 years related experience. B77-24 (1/26).

Sr. Clerk III in the Medical Department MIT Health Plan Office will handle various clerical duties related to processing of claims: post claims on log; type related correspondence, forms; maintain claims records. Position involves extensive xeroxing and filing activity. Will also act as office receptionist and handle some Plan enrollment processes. Excellent typing, facility to handle details, judgement and sensitivity in dealing with people required. B77-22 (1/26).

Clerk III in the Division of Laboratory Animal Medicine will handle general clerical duties; maintain purchasing and billing records; file; answer phones; type varied material. Typing skill, facility with figures required. B77-11 (1/19).

Sr. Library Asst. IV in the Libraries Catalogue Department to catalogue monographs in all languages and subject fields using OCLC 100 terminal; catalogue added and second copies and continuations; recatalogue from Dewey Decimal to LC

classifications; participate in maintaining various files and authority records. A Bachelors degree, ability to follow complex direction and to handle detail with accuracy required. Typing skill also necessary. Library experience helpful. B77-20 (1/26).

Typist/Pasteup Artist IV in the Illustration Department of Graphic Arts Service will prepare camera-ready justified and tabular material on IBM Proportional Spacing Typewriter; size photos; pasteup copy and prepare finished mechanicals for offset reproduction (black/white, color). Excellent typing skills plus 2 years experience in pasteup preparation required. 40 hrs/wk B77-35 (1/26).

Asst. Computer Operator III in the Office of Administrative Computing Services to operate IBM Model 145 and associated peripheral equipment under DOS/VS Power. A good knowledge of DOS job control, multi programming experience and ability to follow standardized operating instructions required. One year related working experience also necessary. 4pm-Midnight shift. B77-25 (1/26).

Bartender, hourly, part-time, in the Faculty Club to serve drinks; mix cocktails; charge checks; make change; clean glasses, bar, tables; set up and break down bars in private dining rooms; handle other related duties as necessary including closing bar. Experience in making drinks, ability to speak English and to work well with people required. 12-20 hrs./wk., as necessary (Mon.-Fri., evenings) H77-11 (1/26).

Asst. Animal Technician, hourly, in the Division of Laboratory Animal Medicine to perform routine animal care assignments such as cleaning cages and equipment; feeding and watering animals, perform other miscellaneous duties as necessary including lab housekeeping functions. Graduation from high school, or equivalent, knowledge of animal care required, as well as willingness to participate in formal job training programs. H77-2 (1/26).

Designer/Draftsperson (Mechanical), hourly, in the Energy Lab to support several project groups; turn sketches and rough designs into finished drawings and layouts; design standard and special experimental equipment for combustion, magnetohydrodynamics and gas turbine research projects. Will also do electrical layouts. A minimum of 5 years applicable experience, familiarity with machine shop, welding and construction practices and requirements necessary. H77-17 (1/26).

Waiter/Waitress, hourly, part-time in Faculty Club to set tables, take orders, serve food and beverages on banquet trays, clean and reset tables; dust chairs; wipe tables. Experience helpful but not necessary. Applicants must be able to read and speak English. 20 hr./wk. 11am-3pm, Mon.-Fri., including some possible evening work, H77-3, H76-127 (1/12). An opening also exists to work approximately 12-15 hrs. a week, on call, Mon.-Fri, 5pm-9pm, H77-10, (1/26).

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

ADMINISTRATIVE STAFF:
A75-71, Documentation Manager, Admin. Info. Systems (7/14)
A76-44, Applications Programmer, Off. of Admin. Info. Syst. (12/1)
A76-45, Special Assistant, Off. of the Chairman (11/3)
A76-46, District Officer, Resource Dev. (11/10)
A76-48, Investment Real Estate Off., Treasurer's Off. (11/17)
A76-51, Applications Programmer, Off. of Admin. Info. Syst. (12/1)
A76-52, Applications Programmer, Off. of Admin. Info. Syst. (12/1)
A76-53, Systems Analyst, Off. of Admin. Info. Syst. (12/1)
A76-58, Asst. Dir., MIT Assoc. Prog. (1/12)
A76-59, Asst. Dir., MIT Assoc. Prog. (1/12)

BIWEEKLY
B76-334, Sec. III, Sloan School (8/25)
B76-511, Asst. Computer Oper. III, Office of Admin. Info. Syst. (10/27)
B76-539, Clerk IV, Physical Plant (1/5)
B76-592, Sec. III-IV, Mechanical Eng. (11/24)
B76-609, Sec. IV, Sloan School (12/1)
B76-613, Sec. IV, Ctr. for Policy Alternatives (12/1)
B76-617, Sec. III-IV, Chemical Eng. (1/5)
B76-626, Sec. IV, Physical Plant (1/5)
B76-630, Sec. IV, Energy Lab. (1/19)
B76-633, Admin. Asst. V, Chemical Eng. (1/5)
B76-634, Sec. IV, Res. Lab. of Elec. (1/5)
B76-635, Tech. Asst. IV, Psychology (1/12)
B76-636, Sec. IV-V, Health Sci. & Tech. (1/12)
B76-637, Sec. IV, Medical Dept. (1/12)
B76-638, Sec. IV, Medical Dept. (1/12)
B76-640, Sr. Clerk IV, MIT Press (1/12)
B76-644, Sr. Clerk III, Admissions Office (1/12)
B76-646, Sec. IV, Secondary Tech. Educ. Proj. (1/12)
B76-647, Computer Oper. III, Lab. for Nuclear Sci. (1/12)
B76-653, Sec. III, Student Financial Aid Off. (1/12)
B76-656, Sr. Clerk IV, Summer Sessions Office

(1/12)
B76-658, Sec. IV, Physics Dept. (1/12)
B76-659, Sec. IV, Nutrition & Food Sci. (1/12)
B76-661, Sr. Clerk III-IV, Off. of the Dean for Student Affairs (1/19)
B77-5, Sec. IV, Div. for Study & Res. in Educ. (1/19)
B77-6, Sec. IV, Athletics Dept. (1/19)
B77-9, Tech. Asst. IV, Architecture (1/19)

ACADEMIC STAFF:
C76-6, Microbiologist, Medical Dept. (4/21)
C76-19, Institute Archivist, Librarian, Libraries (10/27)
C76-23, Tech. Asst. Biology (1/12)

SPONS. RES. STAFF:
D75-161, Economist/Policy Analyst, Energy Lab. (9/15)
D76-17, Biochemist, Res. Lab. of Elec. (2/25)
D76-49, Plasma Physicist, National Magnet Lab. (4/14)
D76-71, postdoc. res., Physics, Lab. for Nuclear Sci. (5/5)
D76-108, Eng. Prog., Res. Lab. of elec. (7/14)
D76-115, Immunologist, Clinical Res. Ctr. (7/14)
D76-121, Res. Engineer, Energy Lab. (7/28)
D76-123, Staff Biophysicist or Biochemist, National Magnet Lab. (7/28)
D76-126, Immunologist, Clinical Res. Ctr. (8/11)
D76-140, Operations & Instrumentation Manager, National Magnet Lab. (8/25)
D76-172, Chemist, Elec. Eng. (10/6)
D76-175, Scientific Prog., Earth & Planetary Science (10/6)
D76-179, Prog., Ctr. for Space Res. (10/6)
D76-180, postdoc. res., Physics, Lab. for Nuclear Sci. (10/13)
D76-182, Staff Engineer, Elec. Eng. & Computer Sci. (10/13)
D76-187, Postdoctoral Scientist, Ctr. for Space Res. (10/13)
D76-188, Postdoctoral Scientist, Ctr. for Space Res. (10/13)
D76-208, Technical Writer, Aero./Astro. Innovation Ctr. (11/13)
D76-210, Radiochemist, Nuclear Reactor Lab. (11/3)
D76-212, Fusion Reactor Res., National Magnet Lab. (11/10)
D76-220, Research Analyst, Ctr. for Policy Alternatives (11/24)
D76-224, Policy Analyst, Energy Lab. (1/5)
D76-225, Sci. Applications Prog., Lab. for Nuclear Sci. (1/5)
D76-231, Mgr. of Syst. Prog. & Devel., Lab. for Nuclear Sci. (1/19)
D76-232, High Energy Physics Res., Bates Linear Accelerator (1/5)
D76-233, High Energy Physics Res., Bates Linear Accelerator (1/5)
D76-235, Technical Officer, Tech. Adaptation Prog. (1/5)
D76-239, Systems Theory Res., Elec. Syst. Lab. (1/12)
D76-240, Admin. Asst., Political Sci. (1/12)
D76-243, Metallurgist, National Magnet Lab. (1/12)
D76-244, Manager, Combustion Facility, Energy Lab. (1/12)
D76-245, Chemist/Biologist, Earth & Planetary Sci. (1/19)
R77-5, Energy Syst. Analyst, Energy Lab. (1/19)
R77-6, Staff Scientist, Arteriosclerosis Ctr. (1/19)

EXEMPT:
E76-41, Principal Oper., Physical Plant (12/1)
E77-1, Food Serv. Superv., Food Service (1/19)

HOURLY:
H76-130, Tech. C. Lab. for Comp. Sci. (1/12)
H76-132, Sr. Tech. (Elec.), Lab. for Nuclear Sci. (1/19)
H76-133, Mech. B (Heat & Vent), Physical Plant (1/5)
H76-134, Tech. B (Elec.), Lab. for Nuclear Sci. (1/19)

The following positions have been FILLED since the last issue of *TECH TALK*:
B77-3, Sec. IV
D76-218, Spns. Res. Staff
B77-7, Tech. Asst.
B77-8, Tech. Asst.
B76-654, Sec. Clk. III
H77-4, Waiter
B76-639, Sec. IV
B76-610, Sec. IV
B76-649, Lib. Asst.
B76-605, Sec. IV
B76-648, Sec. III
B76-645, Tech. V
C76-18, Acad. Staff
D76-70, Spns. Res. Staff
B76-652, Clk. III

The following positions are on HOLD pending final decision:
B77-14, Sec. IV
H76-137, Counter Person
H76-112, Metal Worker
B77-10, Admin. Asst. V