

Lorenz Appointed Meteorology Head

Dr. Edward N. Lorenz, a distinguished meteorologist who is a specialist in the dynamics of atmospheric circulations, has been appointed head of the Department of Meteorology at MIT, effective July 1, 1977.

Dr. Lorenz, who is professor of meteorology at MIT and who has been associated with the department since 1948, succeeds Dr. Jule G. Charney, who is also Alfred P. Sloan Professor of Meteorology at MIT.

The appointment was announced by Dr. Robert A. Alberty, Dean of the MIT School of Science. "Professor Lorenz has been a national leader in meteorology," Dean Alberty said, "and we are most happy that he will serve in this role. The Department of Meteorology has prospered under Professor Charney's leadership during the last three years, but he is anxious to have more time for teaching and research."

Dr. Lorenz, a member of the National Academy of Sciences, has received numerous honors and awards. He was given the Symons Memorial Gold Medal of the Royal Meteorological Society in 1973, the Rossby Society in 1969, and the Society's Meisinger Award in 1963.

During leaves of absence from MIT, he has held teaching and research positions at other leading institutions, including the Lowell Observatory, Flagstaff, Ariz., in 1951, the Department of Meteorology at the University of California at Los Angeles, in 1954-55, Det Norske Meteorologiske Institutt, Oslo, Norway, in



Dr. Lorenz

(Continued on page 7)

Denise Scott Brown to Give Second Anderson Lecture

Architect and planner Denise Scott Brown will give the second annual Lawrence B. Anderson Lecture at MIT at 4:30pm on Friday, May 13, in MIT Rm. 54-100.

A partner in the firm, Venturi & Rauch, Architects and Planners, Philadelphia, Ms. Scott Brown will speak on "The Forgotten Symbolism of Architectural Form." Following a brief exposition of theory, she will show slides illustrating work done by Venturi & Rauch. The MIT community is invited to attend the lecture.

Ms. Scott Brown works at the place where architecture and planning join. She is interested in the social consequences of urban design and the social determinants of urban forms.

She has identified the commercial strip and its private counterparts, such as Levittown, not only as legitimate sources for architectural form making but also as the social context that architects should be concerned with today. Research on the commercial strip initiated in the studio led to publication of *Learning from Las Vegas*, (Cambridge: MIT Press, 1972) co-authored by Ms. Scott Brown, Robert Venturi and Stephen Izenour. A revised version of the book is being published by MIT Press this month.

Among the many projects she has

been responsible for at Venturi & Rauch are the Philadelphia Cross-town Community (South St.) in 1968, the plan and urban design for California City in 1970, and the planning survey and recommendations for the Schuylkill River Corridor in 1974.

A native of North Rhodesia (now Zambia) Ms. Scott Brown was edu-

Awards Convocation

The annual Awards Convocation will be held Thursday, May 12, at 11am in the Little Theatre.

Awards to be presented include Karl Taylor Compton, William L. Stewart, Jr., and Frederick Gardner Fasset, Jr., Awards for student contributions; the Goodwin Medal, and Irwin W. Sizer Awards for teaching and contributions to education; the James N. Murphy Award for outstanding contributions by an employee, and major awards honoring athletic achievement.

The convocation is open to all members of the community.

little

Globe Trotters



Though cold, grey, snowy and rainy, Monday was a beautiful day for Ronald P. Smith, left, and Linda Williams when they learned they were winners of "The Trip." Mr. Smith, who is MIT associate registrar, was first place winner in the drawing, held at Employees Open House and won a two-week trip for two to Paris and the Alps. Ms. Williams, a secretary in the Sensory Aids Evaluation and Development Center, won a one-week trip for two to Peru. The Trip is a lottery sponsored by the Quarter Century Club to benefit the Community Service Fund. This lottery raised over \$14,000 for the CSF.

Health Sciences Fund Lists Faculty Research Grants

The Health Sciences Fund has awarded 10 new Health Sciences Fund Faculty Research Grants to begin on July 1, 1977, according to Dr. Irwin W. Sizer, president of the Fund.

The following MIT faculty have been awarded one-year grants:

Dr. William M. Deen, assistant professor in the Department of Chemical Engineering. His work will involve "Quantitative Characterization of the Permeability of Renal Glomerular Capillaries to Charged Macro-molecules." It will be carried out in collaboration with Dr. Barry M. Brenner, professor of medicine, Harvard Medical School and director of the Laboratory of Kidney and Elec-

trolyte Physiology, Peter Bent Brigham Hospital.

Dr. John G. King, Francis L. Friedman Professor in Physics in the Department of Physics whose work will involve "Cell Surface Studies." His collaborator is Dr. Phillips W. Robbins, professor in the Department of Biology and the Cancer Research Center.

Dr. David Housman, assistant professor in the Department of Biology will work on "Genetic Analyses of the Differentiation Program in Murine Erythrocyte Cells."

Dr. Thomas D. Lockwood, assistant professor of toxicology, Department of Nutrition and Food Science, who will study "Intracellular Proteases Degradation and Growth Control in Normal and Transformed Cells."

Dr. Edward B. Robert, David Sarnoff Professor of Management of Technology, School of Management will work on an "Evaluation of Clinical Chemistry Technology." This project is in collaboration with Stan N. Finkelstein, M.D., Department of Political Science.

Dr. Chong S.P. Sung, assistant professor of polymetrics in the Department of Materials Science and Engineering will study "Molecular Design and Evaluation of Blood Compatible Polyurea Urethane Elastomers."

The following Harvard Medical School faculty have been awarded one-year grants in collaboration with MIT investigators:

Dr. John G. Hildebrand, assistant professor of Neurobiology,

A.D. Little To Endow Innovation Program

MIT announced today it has received a \$250,000 grant from Arthur D. Little, Inc., of Cambridge, a company with a long history of support for MIT programs and people.

The grant—\$50,000 a year for five years—will be known as the Arthur D. Little Research and Innovation Fund. Its purpose will be to reflect the commitment of the internationally-known research and development company to the use of technology and management skills for the benefit of society.

John F. Magee, who announced the establishment of the fund, said it would "provide the impetus needed to advance new fields of research, as well as development of new research areas at the juncture between traditional disciplines at critical points of their development."

John F. Magee, president of Arthur D. Little, said the fund "will help insure that MIT will continue its initiative in research in ways that have made MIT an international resource for creative research. The fund will also further the integration of science and engineering with management, public policy and related social concerns."

The \$250,000 gift was made in conjunction with MIT's five-year Leadership Campaign, which has passed the half-way mark toward its goal of \$225,000,000. The campaign was begun in 1975 to marshal

(Continued on page 7)

CSF Reminder

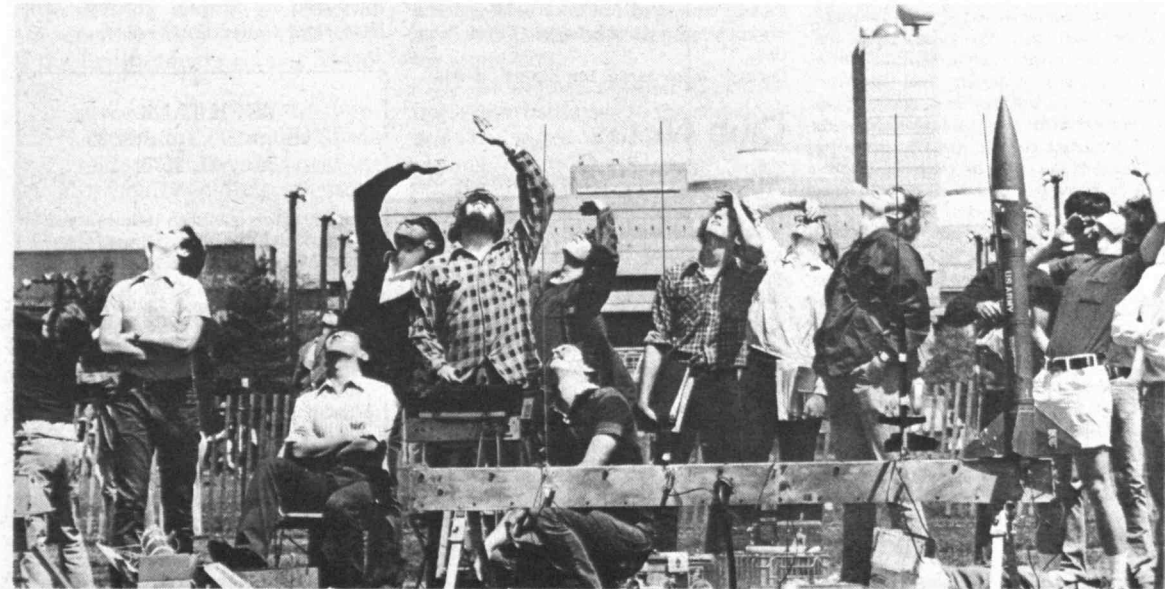
The annual appeal of the MIT Community Service Fund has so far raised \$6,743 from 243 donors as of Monday, May 9.

"Contributions are running behind the level of a year ago, when they stood at \$8,950 from 331 donors at a comparable time," according to Gregory Smith, co-chairman of the CSF trustees.

"Because the campaign started slightly later this year," Mr. Smith said, "it is critically important that those who plan to give do so soon. Allocations are scheduled to be made later this month, so the trustees need to know how much funding will be available."

The Fund annually receives proposals totaling more than \$60,000 from agencies such as the Cambridge Community Center, Just-A-Start, Tutoring Plus and the Group School. Except for Tutoring Plus, for which CSF has traditionally provided major support, most proposals are modest. Tutoring Plus, founded by MIT students and neighborhood parents 11 years ago, normally receives from \$10,000 to \$15,000 from CSF, depending on how much money is available for allocation.

Individual contributions make up the bulk of support for CSF, which was established nearly ten years ago as a means of assisting MIT volunteers participating in community activities. Though no specific goal has been set for this year's campaign, it is hoped the Fund will surpass the \$30,000 level achieved last year.



Up, Up and Away! Observers watch the flight of a rocket launched by members of MIT's Model Rocket Club during Employees Open House. See other pictures on page 5.

(Continued on page 7)

Wunsch Named Acting Head Of Earth, Planetary Sciences

Dr. Carl I. Wunsch, Cecil and Ida Green Professor of Physical Oceanography in the Department of Earth and Planetary Sciences, has been named acting head of the department, Dr. Robert A. Albery, Dean of the School of Science, has announced.

Professor Wunsch, 35, succeeds Dr. Frank Press who left the post to become science adviser to President Carter.

Dean Albery said a search committee for a department head, chaired by Dr. Stanley R. Hart, has been appointed and has begun its work. It is hoped that a department head will be appointed in 9 to 12 months, Dean Albery said.

Other search committee members are Dr. Burrell C. Burchfiel, Dr. William F. Brace, Dr. Peter Molnar, Dr. Gordon H. Pettengill and Dr. Sean C. Solomon.

Professor Wunsch, who received the SB and PhD degrees from MIT in 1962 and 1966, joined the MIT faculty in 1967.

Professor Wunsch's interests have been in combining sea-going observational programs with theoretical modeling in different areas of physical oceanography. Specific interests include internal waves, tides, mixing processes and dynamics of mid-latitude and equatorial circulation. Most recently, his work has been with deep-sea moored arrays in the North Atlantic and the equatorial Indian Ocean.

He has received the James B. Macelwane Award of the American Geophysical Union and the Founders' Prize from the Texas Instruments Foundation. His is a member of the American Geophysical Union and the Royal Astronomical Society.

Professor Wunsch has been active in the joint doctoral program with Woods Hole Oceanographic Institution and has been a member of the Committee on Educational Policy.



Dr. Wunsch

Professor Wunsch has spent two periods of leave as senior visiting fellow at the Department of Applied Mathematics and Theoretical Physics at the University of Cambridge.

His wife is the former Marjory Markel. They live in Cambridge. Professor and Mrs. Wunsch have two children.

BSO Violinist To Give Concert At East Campus

BSO violinist Max Winder will join members of the MIT Chamber Music Society at an informal program of chamber music at 5:15pm on Friday, May 13, in Talbot Lounge, East Campus.

East Campus residents contributed \$325 to the Boston Symphony Orchestra's (BSO) Musical Marathon in February and in return received a premium—a performance by Mr. Winder who plays with the first violins of the Orchestra. The concert will be open to the entire MIT community.

The program will include Mozart's two viola Quintet in C Major, K. 515, and Debussy's *Dances Sacree et Profane* for harp and strings.

Performing the Mozart Quintet with Mr. Winder will be Daniel Yuan, second violin, a freshman from Gainesville, Fla., and concertmaster of the MIT Symphony Orchestra; Josie Stein, first viola, a junior in mechanical engineering from Belmont, Mass.; Marcus Thompson, second viola, associate professor of music at MIT and founder and director of the MIT Chamber Music Society, and Sue Epstein, cello, a graduate student in biology from Chicago, Ill.

Elizabeth Panzer, harp, a freshman from Flint, Mich., and an East Campus resident, and Rick Stone, bass, from Glen Ellyn, Ill., will join Mr. Winder, Mr. Yuan, Ms. Stein, and Ms. Epstein for the Debussy *Dances*.

Following the performance there will be an opportunity for the audience to meet Mr. Winder and the other musicians.

Mahoney Considered as Ambassador

MIT Professor and Massachusetts State Representative Thomas H.D. Mahoney very nearly put another title in front of his name—that of ambassador.

Dr. Mahoney, professor of history and chairman of the history section in the Department of Humanities, was one of five persons considered by President Carter as ambassador to Ireland.

Actually, he finished second to the eventual nominee, New York Times columnist William V. Shannon.

More than 100 names were considered initially, Professor Mahoney

said, and finally five names were given to the President. "Then it went from five-to-four-to-three-to-two-to-one, and I was number two," he said.

Dr. Mahoney is an authority on modern British history and also on the famed Irish statesman, Edmund Burke, who was the subject of one of his books, "Edmund Burke and Ireland." He was co-author of a recently-published book, *1776*, contributing a section on Burke and the American Revolution.

Professor Mahoney, a Democrat, has represented the Second Middlesex District in the State Legislature since 1971.

Steele to Succeed Fye As Woods Hole Director

The Trustees of the Woods Hole Oceanographic Institution have appointed Dr. John H. Steele, of Aberdeen, Scotland, to be Director of the Institution, beginning in October.

He succeeds Dr. Paul M. Fye, who is remaining at the Institution as President of the Corporation. Dr. Fye has been Director since 1958.

Charles F. Adams, Chairman of the Woods Hole Board of Trustees, said, "The Board is pleased to have attracted Dr. Steele. He is an original, provocative, and creative oceanographer with a world-wide reputation."

MIT and Woods Hole offer joint programs of graduate study in many fields of oceanography and ocean engineering, leading to jointly conferred doctoral degrees.

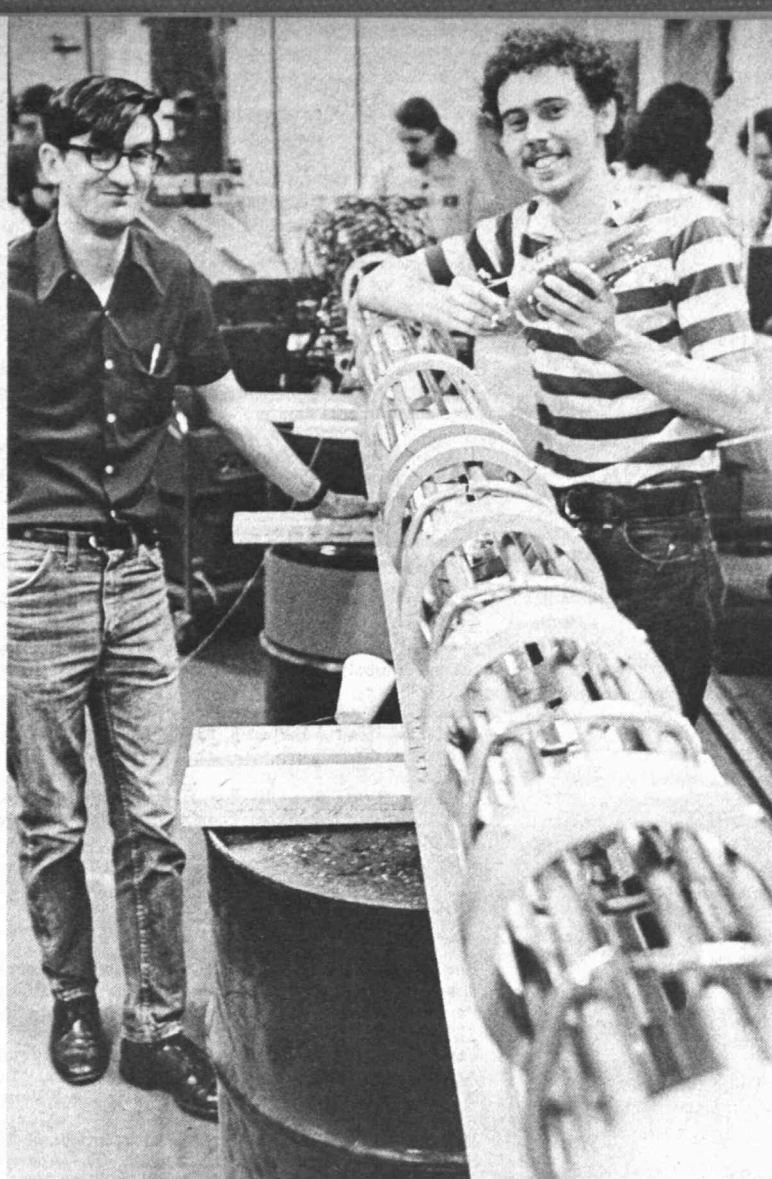
Dr. Steele is currently Deputy Director of the Marine Laboratory

of the Department of Agriculture and Fisheries for Scotland. He joined the Laboratory 26 years ago, and he has been Deputy Director since 1973.

Dr. Steele has applied his training in mathematics to the physical and biological processes of the oceans. His work embraces many fields, including physical, chemical, and biological oceanography.

In recent years Dr. Steele has organized a number of international oceanographic experiments. These have included the Controlled Ecosystem Pollution Experiment in British Columbia, and a five year cooperative study between the United Kingdom and India.

A native of Edinburgh, Scotland, Dr. Steele studied mathematics at the University of London, where he received the SB in 1947 and the ScD in 1963.



William R. Snow (left) and Kevin S. Fine, both graduate students in the Department of Aeronautics and Astronautics, stand beside model of electromagnetic mass driver which they helped build. The mass driver uses magnetic repulsion to send the small "bucket" held by Mr. Fine down the tube at speeds as high as 70 miles per hour. It is being developed for use in launching spacecraft from the moon or from orbiting space stations of the future. It was built during MIT's Independent Activities Period by five MIT students under the direction of Henry H. Kolm, a scientist at MIT's Francis Bitter National Magnet Laboratory, and Gerard K. O'Neill, Jerome Clarke Hunsaker Visiting Professor of Aeronautics and Astronautics at MIT.

—Photo by Calvin Campbell

D. Hugh Darden Appointed To New Planned Giving Post

D. Hugh Darden, Institute Estate Secretary since 1964, has been appointed Director of Planned Giving and Adviser on Legal Affairs, effective immediately.

Announcement of Mr. Darden's promotion was made jointly by General James B. Lampert, vice president for resource development and Glenn P. Strehle, treasurer of the Corporation.

In this new post, Mr. Darden has overall responsibility for all matters between MIT and potential individual donors in the area of planned giving, including outright gifts, gifts to life income plans and bequests. He will provide support to all the senior officers of the Institute, members of the Institute's administrative staff including the Alumni Association staff, members of the faculty and other members of the Institute family in developing gift support for MIT.

Mr. Darden's responsibilities will include the development of special gift arrangements in close coordination with the Treasurer's Office, and he will serve with the Treasurer and Associate Treasurer as a major contact point for attorneys, trust officers and others needing information or assistance and as a major contact point with the Institute's outside legal counsel.

Mr. Darden will prepare and review documents relating to gift arrangements and assure the settlement of estates and trusts in which the Institute has present or future interests. He will also serve as a monitor for changes in the area of tax law or tax policy having an effect on activities of the Institute.

As the principal staff legal officer in matters relating to Resource Development, Mr. Darden will provide special assistance as needed in the area of gift support from corporations and foundations.

Mr. Darden came to MIT in 1957 as director of the Educational

Council and associate director of admissions. From 1959-62 he was a special assistant and deputy director for area operations during the Second Century Fund capital campaign. After becoming Institute estate secretary, Mr. Darden inaugurated and developed MIT's overall planned giving program.

A native of Georgia, Mr. Darden received the AB degree in 1943, the JD in 1948 and the AM in 1949, all from the University of Alabama. Mr. Darden and his wife, the former Diana Kotowich, reside in Lexington, Mass.



Dr. Darden

Nuclear Debate Planned Saturday

Two MIT professors will take part in a debate on nuclear power May 14 during "Involvement Day," a series of events arranged by the Cousteau Society.

Panelists for what the society calls "The Great Nuclear Debate," will be Dr. Norman C. Rasmussen and Dr. Ian Forbes, on one side, and Dr. Henry W. Kendall and Daniel F. Ford on the other side.

Professor Rasmussen, head of the MIT Department of Nuclear Engineering, and Dr. Forbes, of Energy Research Group, Inc., will speak in favor of the further development of nuclear power for the generation of electricity. Dr. Kendall, professor of physics in the MIT Department of Physics, and Mr. Ford, both members of the Union of Concerned Scientists, will argue for better regulations and improved safety before undertaking additional development of nuclear power.

The debate will begin at 1:45pm in the John B. Hynes Auditorium, 900 Boylston St., Boston.

Six Women Win Green Fellowships

Six women—two of whom will receive the SB degree from MIT in June—will begin graduate studies at MIT in September as Ida M. Green Fellows.

MIT's Ida M. Green Fellowships, awarded this year for the fourth time, are made possible by a \$1 million gift from Cecil H. and Ida M. Green of Dallas, Texas, who intended them primarily for women graduate students.

The awards provide \$4350 for tuition for the 1977-78 academic year and a nine-month stipend of \$2925.

Announcement of the award recipients was made by Jeanne E. Richard, associate dean of the Graduate School.

The Ida M. Green Fellows are:

Renee Chow, an MIT senior in architecture from River Edge, N.J. A teaching assistant this term, Ms. Chow is the first undergraduate ever chosen for this position in the department. One of four winners of the 1977 Senior Academic Award, given each year by AMITA (the Association of MIT Alumnae), Ms. Chow plans to study the many complex variables of architecture and methods for designing usable, pleasing and livable structures in the Department of Architecture.

Frances Hagopian of Franklin, Mass., a 1975 magna cum laude graduate of Brandeis University. Ms. Hagopian did her senior thesis on the reaction of the Chilean middle class to the Allende government, conducting her field work under perilous conditions during the summer following the October 1973 coup d'etat. She will begin the PhD program in MIT's Department of Political Science, where she plans to concentrate on comparative politics, the political development of Latin American authoritarian regimes, and their operation in power.

Sharon L. Haynie of Baltimore, Md., who received the BA in biochemistry from the University of Pennsylvania in December, 1976. A member of Phi Lambda, the National Chemical Honorary Society, Ms. Haynie is currently a research assistant with Proctor and Gamble. Admitted to the PhD program of MIT's Department of Chemistry, she plans a career in biochemistry.

Ellen C. Hildreth, an MIT senior in mathematics from Ashland, Mass. For the past three years Ms. Hildreth has been involved with the LOGO group in MIT's Artificial Intelligence Laboratory, and is the author of three LOGO working papers. She will enter MIT's electrical engineering and computer science PhD program, where she will prepare for a career integrating the fields of mathematical sciences, education and the AI approach to learning and problem solving.

Kimberlee J. Kearfott of Middletown, Ohio, who received the BS and Diploma in Engineering from St. Mary's University, Halifax, Nova Scotia, in 1975. At St. Mary's she was first in her class and received the Governor General's Medal and the University Medal in Engineering. After completing the Masters in Engineering program in nuclear engineering at the University of Virginia in May, 1977, she will work for the PhD in MIT's Department of Nuclear Engineering, specializing in biomedical engineering.

Barbara S. Lawrence of Baltimore, Md., who received the BM in applied music from Oberlin College in 1972 and the MA in college counseling and student personnel administration from the University of Maryland, College Park, in 1973. A flutist of professional quality, Ms. Lawrence is a guidance counselor at a junior high school in Baltimore County, Md. With university teaching as an ultimate goal, she will enter the graduate program at the Sloan School of Management, where she will concentrate in organizational studies.

ay works by Purcell, Frescobaldi, Rautavaara, Brahms and Nellybel.
 sponsored by the Music Section. Mon, May 16, 8pm. Kresge Little Theatre. Free.

Primm Duo* — Two short operas by Paul Earls, Research Fellow at MIT Center for Advanced Visual Studies. May 17, 4pm, May 18, 4 & 8pm, Kresge Little Theatre. Free.

Theater and Shows

Shakespeare's Macbeth* — MIT Community Players. Thurs, May 12 thru Sat, May 14, 8pm, Kresge Little Theatre. Tickets on sale in Lobby 10 week of May 9, \$3, \$2.50 w/stu ID. Reservations, x3-4720.

Dance

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

Renaissance Dance Band* — MIT SCA Dancing. Inviting players of recorders or other early instruments, expertise not necessary. Wednesday nights, 8pm, Burton Dining Hall Info: Ron x3-7814.

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.

MIT Dance Workshop — Sponsoring a number of different projects for second term. Please check Workshop bulletin board, duPont Armory, Bldg 31.

Exhibits

John Messina: Photographs* — Thru Wed, May 25, Creative Photography Gallery, Bldg W31. Mon-Sat, 10am-6pm, Sun, 12n-8pm.

Women in American Architecture: A Historical and Contemporary Perspective* — exhibition documents the role women have played in the history and development of American architecture. Sponsored by the Committee on the Visual Arts & the MIT Department of Architecture. Thru, Jun 18, Hayden Gallery, Mon thru Sat, 10am-4pm, free.

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; Norbert Wiener, and 1876 Exhibit, Bldg 4 corridor. **The New Technology Exhibit** 2nd floor balcony of Lobby 7. **Energy Exhibit** Bldg E40, 1st floor. **Radiation Laboratory Exhibit** main corridor, Bldg 8.

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, half models of yachts and engine models. Open daily in Bldg 5, 1st floor.

Canones* — Music Library, Rm 14E-109. Examples of the use of canons from 7 centuries of music.

Graphics by MIT Design Services* — On exhibit in Bldg 7 corridor.

Astrophysics Exhibit* — Center for Space Research exhibit. Main corridor, Bldg 4.

Lobby 7 Events

Clown Troupe* — Jon Lapiarz, mime, will present a performance by his clown troupe. Fri, May 13, 12n, Lobby 7.

Technique Photography Display* — Weeklong exhibit of the yearbook photography staff's best work. Thru Fri, May 13, Lobby 7.

Writing and Photography Display* — Display of student's work in 2 media accompanied by readings at noon. Mon & Tues, May 16 & 17, Lobby 7.

Club Notes

Beginner's Sailing — Instruction, Mon & Thurs, 5:15pm, MIT Sailing Pavilion.

Athletics

Maggie's Self-Designed Fitness Class — Classes 12n-1pm, du Pont fencing & wrestling rms; 5-6pm, du Pont T Club Lng. PE credit course, but all are welcome.

Community Softball** — Teams interested in participating in the summer softball league should fill out application forms in the I.M. Manager's Office and attend a meeting Thurs, May 19, 5:15pm, 4th Floor, Stu Ctr. Info: Tom Stagliano, x3-2433.

Home Schedule* — Saturday, May 14-Grad Soccer. Canary Square, 2pm, Briggs Field. Saturday May 14 & Sunday, May 15-W Sailing. NEWISA "Bring Your Own Windsurfer." 11:30am, Charles River Lower Basin. Saturday, May 21 — Grad Soccer. Sherborne United. 2pm, Briggs Field.

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 May 18 through May 29 to the Calendar Editor, Room 5-111, Ext. 3-3270 before noon Friday, May 13.

Notice: If your club or activity is meeting during the summer, please notify the Calendar Editor by 12 noon, Friday, May 20. All currently listed Calendar Events and Institute Notices not renewed will be removed from the paper, and not reinstated until notification is received.



ELECTRIC MOMENT occurs when Dr. Harold E. Edgerton, Institute Professor emeritus, demonstrates a high frequency tesla coil for Barbara Brandon, 8, of Acton, a visitor at Employees Open House.



RAPT ATTENTION is shown by Shawn Saber, 9, son of Gil Saber of Lincoln Lab, as he watches Lawrence E. Beckley carve a ruby crowned kinglet at the Arts and Crafts exhibit at Employees Open House. Mr.

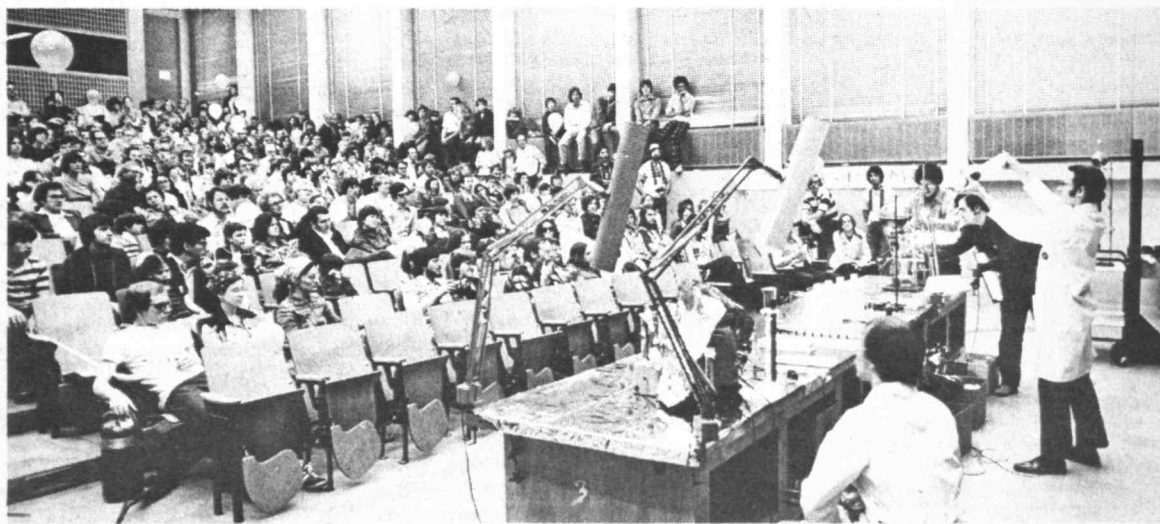
Beckley, assistant director of the Center for Space Research, and his wife, Ruth, team up to produce life-like birds—he carves them and she paints them.



Timothy Andrew Barone, two, devotes his attention to the "balloon-blower-upper" while his father, Dr. Richard Barone, holds Open House balloons. Dr. Barone is an Educational Counselor from Attleboro, Mass.

A Grand Occasion

The only complaint heard at the second biennial Employees Open House was that there wasn't enough time to see everything. But everything did get seen by some of the estimated 7,000 employees, their families and guests who came to the Institute last Saturday for a look around. Tony Zona, who arranged the Arts and Crafts Exhibit in the Bush Building Lobby reported that more than 2,000 visitors came to see the art works of their fellow employees. The Francis Bitter National Magnet Laboratory ALCATOR project drew more than 250 people curious about fusion machines while more than 500 trooped through the Graphic Arts printing plant and received free souvenirs. Meanwhile back on the campus, the movie "The Parade of Tall Ships—Operation Sail" played continuously to full houses, the Tech Model Railroad was thronged with people and more than 400 had a swim in Alumni Pool.



SECRETS OF CHEMISTRY were revealed by Professor Mark Wrighton, right, to more than 300 employees, their families and guests at "The Ultimate Magic Show," a perennial favorite at Open Houses.

Chamber Music Society, Brass Ensemble to Play

The MIT Chamber Music Society and Brass Ensemble will give a spring concert at 8pm on Monday, May 16, in Kresge Auditorium at MIT.

The concert, sponsored by the MIT Music Section, will be open to the public free of charge.

The Chamber Music Society, coached for this concert by Jean Rife, will open the program with Britten's *Canticle III*, Debussy's *Le Petite Suite*, Ravel's *The Mother Goose Suite*, and Poulenc's *Trio for Oboe, Bassoon, and Piano*. Following intermission the MIT Brass Ensemble directed by Robert Pettipaw will play *Canzona per sonare No. 4 (1608)* by Gabrieli, *Suite from Fiori Musicali (1635)* by Frescobaldi, *A Requiem in Our Time (1954)* by Rautavaara, *Festive and Commemorative Music, Opus 109*, by Brahms, and *Three Intradas (1964)* by Nelly.

Ms. Rife is a coach for the Chamber Music Society and on the MIT Music Library staff. A graduate of Oberlin, she has studied horn with Robert Fries, Joseph Singer, and David Krehbiel. She performs with Banchetto Musicale, Emmanuel Chamber Orchestra, New Hampshire Sinfonietta, and MIT Chamber Players.

Mr. Pettipaw has directed the 19-member Brass Ensemble since 1974. He plays trumpet with the Cambridge Brass Quintet and has performed locally with the Boston Opera, Boston Ballet, and Cambridge Festival Orchestra. He teaches at Brown University and New England Conservatory Preparatory School in addition to his work at MIT.

Ian Smith, tenor, an MIT senior in electrical engineering and computer science from Diego Martin, Trinidad, will sing Britten's *Canticle III* with accompaniment provided by James Impara, horn, a junior in architecture from Rockville, Md., and Raymond Nagem, piano, a freshman from San Diego, Calif.

Paul Earls' 'Grimm Duo' To Be Performed Here

By Katherine S.C. Jones
Staff Writer

Grimm Duo, two short chamber operas by MIT composer Paul Earls, will be presented in Kresge Little Theatre at 4pm on Tuesday, May 17, and at 4pm and 8pm on Wednesday, May 18.

The performances will be open free of charge to the MIT community but reservations are required. For reservations, call 232-0206.

The operas, each based on a fairy tale by Grimm, were well received at their premiere performance during Boston's First Night 1977 celebration. Both combine live performance with environmental media events designed by artists at MIT's Center for Advanced Visual Studies (CAVS) where Paul Earls is a Fellow.

The operas will be introduced by *The Jabberwocky*, a musical setting by Paul Earls of Lewis Carroll's poem for soprano, reader, French horn, and electronic processing.

The Dog and the Sparrow has two characters, a sparrow and a wagoner whose cruelty to a dog transforms the sparrow into a terrifying avenger. Both characters will be dually portrayed: the wagoner by a dance-mime by Gus Solomons, Jr., MIT '61, projected onto a large video screen, and by Matt Dooley, baritone; the sparrow by Valerie Walters, mezzo soprano, and by an inflatable costume designed by Otto Piene, CAVS director, and Mira Cantor. Piene and Cantor designed all costumes for the operas.

The Brenttown Musicians uses multiple film projections and video prepared by the MIT Film Section to illustrate the story of four unwanted animals whose decision to take up music leads to unpredictably happy results. The

The Suites by Debussy and Ravel for four-hand piano will be played by sisters Pearl Huang, a junior in biology, and Martha Huang, a junior at Harvard College in East Asian studies, both from Houghton, Mich.

Poulenc's *Trio* will be performed by Steven Winterstein, piano, a junior in mathematics from New Hope, Penn.; Mark Schlossman, oboe, a freshman from Cincinnati, Ohio, and Alice Barkan, bassoon, a junior in biology from Ardsley, NY.

Members of the MIT Brass Ensemble are trumpets: Herbert Stortz, a sophomore in electrical engineering and computer science from Boston; Leon Woo, a graduate student in electrical engineering and computer science from Havre, Mont.; Jean Gregory, a sophomore in materials science and engineering from Fort Lauderdale, Fla.; Robert Baradino, and Aubrey Jaffer, a senior in mathematics from Miami, Fla.

French horns: Frank Fay, a sophomore in ocean engineering from Katonah, NY; Cathy Chutich, and Thomas Black, a freshman from New Canaan, Conn.

Baritone horns: Paul Dratch and Thomas MacDiarmid, a freshman from Huntsville, Ala.

Trombones: Mark Nowitzky, a sophomore in electrical engineering and computer science from Simi Valley, Calif.; Joshua Fine; Brian Hess, a freshman from Western Springs, Ill.; Thatcher Root, a sophomore in chemistry from Bloomfield Hills, Mich.; Joseph Gehret, Jr., a freshman from Williamsport, Penn., and Esther Horwich, a senior in electrical engineering and computer science from Alexandria, Va.

Tubas: Douglas Bittner, a sophomore in physics from Arvis, Penn., and Marlena Schilke, a freshman from Morganville, NJ, and percussion: Owen Herman, a graduate student in mechanical engineering from Denver, Colo.

animals will be sung by Jennifer Paterson, Valerie Walters, Charles Walker, and Matthew Dooley.

The vocalists will be accompanied by a quintet of solo instruments and pre-recorded tape, conducted by Philip Morehead, musical director of the Boston Lyric Opera Co. Performance time of both operas is less than one hour.

The original production was supported by grants from the National Endowment for the Arts, the Massachusetts Council for the Arts, and First Night 1977. The performances in Kresge Little Theatre are supported by grants from the Council for the Arts at MIT, the Musicians Trust Fund, and the Cambridge Arts Council in conjunction with its spring festival.

Spring Revels To Return

Spring Revels, a festival of traditional and ritual dances, song and drama to celebrate the renewal of life, will be presented for the fourth consecutive year in MIT's Kresge Auditorium on Friday, May 20, at 8pm and Saturday, May 21, at 2pm and 6pm.

Performers, over 100 professional and amateurs of all ages, will be Alexander's Feast, Antonia Rojas Spanish Dance Company, Stuart Highlanders Pipes and Drums, Pinewoods Morris Men, Cornwall Mayers, Triveni Children, The City Dance Theater, John Roberts and Tony Barrand, The Cadbury Children and Susan Cooper.

Tickets are \$3.50 and \$2 for children under 12. They may be purchased at the Technology Community Association, Student Center Rm 450, x3-4885; or at the door.



CHINESE ORCHESTRA—the largest and only all-American one—will perform traditional Chinese music at a 3:30pm lecture/demonstration on May 12 in Kresge

Auditorium. The musicians, advanced students in the Ethnomusicology Program at Northern Illinois University, will also play the music of Thailand and Indonesia. —Photo by Rich Hein

Concert Band Announces Program

Twentieth century concert band music—ranging from the first major piece written in the century to a world premiere performance—will be played by the MIT Concert Band, directed by John Corley, at an 8:30pm concert on Saturday, May 14, in Kresge Auditorium at MIT.

The public is invited free of charge. Free tickets will be given out in lobby 10 through Friday, May 13, to people at MIT.

Two from MIT Serenade IBM Electronically

Technology in the service of the musical arts was the subject of a recent lecture/demonstration given by two MIT musicians to engineers at the IBM Thomas J. Watson Research Center in Yorktown Heights, N.Y.

Professor Barry Vercoe gave a lecture, "Capture, Display, and Performance of Music by Computer," followed by a live performance by violist Marcus Thompson. Both musicians are associate professors of music in the MIT Department of Humanities.

Professor Vercoe presented slides and audio tapes demonstrating his work at the MIT Experimental Music Studio. He established the Studio in 1973 and serves as its director. His particular interest is combining synthesized performance with live musical instruments.

The seminar concluded with Professor Thompson in live performance of *Synapse for Viola and Computer* composed by Professor Vercoe and heard at MIT last October during the First International Conference on Computer Music.

The concert will open with two early British masterpieces: *Toccata Marziale (1924)* by Ralph Vaughn Williams and *First Suite in E Flat, Opus 28a, (1909)* by Gustav Holst. It will also include *Symphony for Band* by Morton Gould, the world premiere of *Evocation (1976)* by Matthew Marvuglio, *Masquerade for Band, Opus 102, (1966)* by Vincent Persichetti, and *Suite No. 3, Opus 60 (1969)* by John Bovicchi.

Toccata Marziale is generally recognized as one of the finest works ever written for band. The Holst Suite, the first major piece written for band in this century, led to development of original repertoire for concert band. The thematic material of the Suite's three movements—*Chaconne, Intermezzo, and March*—is all based on the first eight bars of the *Chaconne*.

Symphony for Band, written by Gould in 1952 for the West Point Sesquicentennial, is considered to be one of the composer's best works.

Following intermission the Band will give the world premiere of *Evocation*, the first piece for band by Matthew Marvuglio, instructor at Berklee Conservatory. The work was commissioned by the MIT Concert Band for the 1976-77 season. All themes and melodies in *Evocation* come from a single set of pitches.

Persichetti's *Masquerade for Band, Opus 102*, is a theme and variations.

The concert will conclude with Bovicchi's *Suite No. 3, Opus 60*, written for John Corley and the MIT Concert Band in 1969. The first movement is derived from the composer's earlier work, *A Summer Incident*. The three remaining movements are homages to Bartok, Piston, and Bach.

The 60-member MIT Concert

Band, formed in 1948, devotes itself to original works for symphonic band and has performed music by 20th century composers such as Walter Piston and Arnold Schoenberg as well as works of earlier composers. Many works have been composed specifically for the Band.

John Corley, who holds numerous positions in the Boston area, has conducted the Band since its inception. He has appeared as guest conductor of the Boston Pops, the Cambridge Festival Orchestra, and is currently conductor of the Hingham Symphony Orchestra and director of the Boston Conservatory Wind Ensemble.

Laura Furman To Read Fiction

Writer Laura Furman, whose first four stories have appeared in *The New Yorker* in the past year, will read from her fiction and discuss her work at 11am on Thursday, May 12, in Rm 4-156.

The reading and discussion will be part of the class, "Modes of the Short Story," (21.124) taught by Barry Spacks, professor of literature in the MIT Department of Humanities. People not enrolled in the class are welcome to attend this special session.

"Last Winter," "My Father's Car," and "The Kindness of Strangers," are some stories by Ms. Furman that *The New Yorker* has published.

"She is a writer extremely attuned to the mood of the 70s," Professor Spacks said. "Her stories, rather Chekovian, are also very much of our time. They are about people who are trying to get a grip on their own lives."



ARCHITECTURAL RENDERING shows Tony Smith's monumental steel sculpture, *For Marjorie (1961)*, sited in front of Tang Residence Hall on MIT's West Campus. The sculpture, a recent addition to MIT's Permanent Collection, is being installed today (Wednesday, May 11). Smith will attend an informal celebration at 4pm on Thursday, May 12, to take place around the new

sculpture sited at the entrance to the Westgate complex. The entire MIT community is invited to attend, meet the artist, and exchange responses to the sculpture. In case of rain, the celebration will take place in New House 3 Lounge. Landscaping for the sculpture will be completed the week of May 15.