

Eisenberg to Head Student Affairs

MIT has selected a woman to be its new Dean for Student Affairs effective July 1.

She is Dr. Carola B. Eisenberg,

Faculty to Meet

A regular meeting of the faculty will be held today, May 17, at 3:15 in Room 10-250.

Business on the agenda includes election of officers and new members of standing committees; announcement of the James R. Killian, Jr. Faculty Achievement Award; remarks by Chancellor Paul E. Gray on budgetary prospects for the next three years; a report by the Committee on Curricula on the physical education requirement; rewording of the regulations of the faculty on the grade of pass; a report by the Ad Hoc Committee on the impact of pass-fail on medical school admissions; a change in faculty regulations concerning a trial period for pass-no record.

The Committee on Educational Policy will report on experimental programs; a report by the Committee on the Harvard-MIT Joint Program in Health Sciences and Technology; and the Faculty Committee on High Accuracy MIRV will report.

Remarks will be made by Provost Walter Rosenblith on research trends and outlook, followed by remarks by President Jerome B. Wiesner.

of Cambridge, a psychiatrist who as a member of the staff of the MIT Medical Department since 1968 has been extensively concerned with student affairs, student counseling and student life.

She will succeed Professor J. Daniel Nyhart, of Brookline, a member of the Sloan School of Management faculty and a lawyer-scholar who will become Special Assistant to the Chancellor for the development of law-related studies and for the development of pre-professional non-curricular programs.

Announcement of the appointments was made by President Jerome B. Wiesner. He said both Dean Eisenberg and Professor Nyhart will report directly to Chancellor Paul E. Gray, in an effort to strengthen and unify student related programs and services.

Although MIT's student body is predominantly male, the number of women students enrolled here has been growing rapidly in recent years, due primarily to the opening of new dormitory facilities to accommodate women students. This year's undergraduate student body includes 3,764 men and 390 women.

President Wiesner said Dr. Eisenberg was selected for the position of Dean for Student Affairs because she was extremely well qualified "both by reason of professional training and by reason of experience, particularly the experience she has gained over the past four years in dealing with MIT students and their problems.



Dr. Carola B. Eisenberg.

"In addition to her responsibilities in the Medical Department, Dr. Eisenberg has taught freshman seminars, has worked with students during our January Independent Activities period and has served on several committees concerned with all aspects of student life."

At the same time, President Wiesner said, women scientists, engineers and administrators have been assuming larger roles in the life of the university in recent years and Dean Eisenberg has been among those working toward the enlargement of these opportunities. She has served, Dr. Wiesner pointed out, as a member of a special student-faculty committee appointed by Dean Nyhart dealing with the role of women in the university.

"This service," he said, "only adds to the wealth of special experience Dr. Eisenberg brings to
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ROTC Occupation Trespass Charged

MIT has filed trespass charges against 29 persons--27 of them students, one of them a former student and one an employee--alleging that they took part in an overnight occupation of ROTC offices last Friday and Saturday and refused to leave when so ordered.

In addition, the university said it has instituted internal disciplinary proceedings against the 27 students.

Attorneys for the Institute filed 25 requests with the clerk of the Third Middlesex District Court in East Cambridge on Monday and four others on Tuesday asking that the court issue complaints against the 29 named individuals.

The court issued the complaints immediately ordering the 29 to appear Friday, May 26, for arraignment and for the setting of trial dates. The court turned the complaints over to local authorities for service. Since the charge is a misdemeanor, authorities were not expected to arrest the defendants, but simply serve them with the complaints.

Vice President Kenneth R. Wadleigh, who signed the requests for complaints, said the 29 were allegedly among a group of 60 to 70 who pushed and shoved their way into ROTC offices Friday afternoon and remained there until mid-day Saturday despite repeated warnings that they were trespassing.

Wadleigh said MIT has been able to obtain positive identification for the 29 named in the complaints. He said identification

efforts are continuing and that the university will lodge charges against others in the group who were in the offices without authority if their identities can be established.

Wadleigh said charges against the students involved will be presented for internal judicial review by the Institute's Committee on Discipline composed of faculty and students. If district court action is still pending when internal proceedings are completed, the internal findings and case dispositions will be withheld from disclosure to avoid the possibility of prejudice in the court trials, Wadleigh said.

The occupation followed a noon anti-war rally attended by some 300 to 450 persons in front of the Student Center Friday. When the rally ended about 1:30 pm, a crowd of some 150 marched to a corridor outside the offices of the president and chancellor where they were met by a waiting group of administrators, faculty members and Campus Patrol officers. Leaders of the group presented a series of previously-prepared demands.

After reading and posting the demands at the office of the president and chancellor, the group marched directly to Building 20 which contains research laboratories, faculty offices, classrooms and the offices used by the Army, Navy and Air Force ROTC units. When the demonstrators reached the area outside the ROTC wing at about 2pm some
(Continued on page 8)

Traditional Awards Convocation Honors Many

Six individual students and two groups received Karl Taylor Compton Prizes at the annual MIT Awards Convocation, held Thursday, May 11.

The Awards Convocation annually honors students who, through initiative outside the classroom and laboratory, have contributed markedly to undergraduate life and to the MIT community. Names of recipients are revealed for the first time at the Convocation.

Presentation of the Compton Prizes by Mrs. Karl Taylor Compton is a highlight of each Convocation. The prizes are given "for outstanding contributions in promoting high standards of achievement and good citizenship within the MIT community." They were established in 1953 in honor of the late Dr. Karl Taylor Compton, ninth president of the Institute.

Curtis Reeves, '73 president of the undergraduate association presided at the Convocation.

The following were recipients of The Karl Taylor Compton Prizes--

George Barstow Flint, a senior in management from Raleigh, North Carolina: "An energetic innovator, he helped create new directions in

educational experiments, and define the relevance of engineering in an age of new social values."

Bruce King Hamilton, a graduate student in chemistry from Dix Hills, New York: "Scholar, musician and concerned citizen, he took leadership in creating new interdisciplinary programs and focusing MIT's energies on the problems of our natural environment."

John Emil Krzywicki, a senior in political science from Chula Vista, California: "His tireless service in the operations of student government and the development of fair judicial processes has benefited a whole kaleidoscope of student activities."

William Murray Mack, Jr., a graduate student in mechanical engineering from Anchorage, Alaska: "Teacher, adviser, resident tutor, and leader of the graduate community, he has brought responsible judgement and concrete improvements to a vast range of student activities."

Alexander George Makowski, Jr., a senior in physical sciences from Wilmington, Delaware: "His detailed and thoughtful investigations of educational

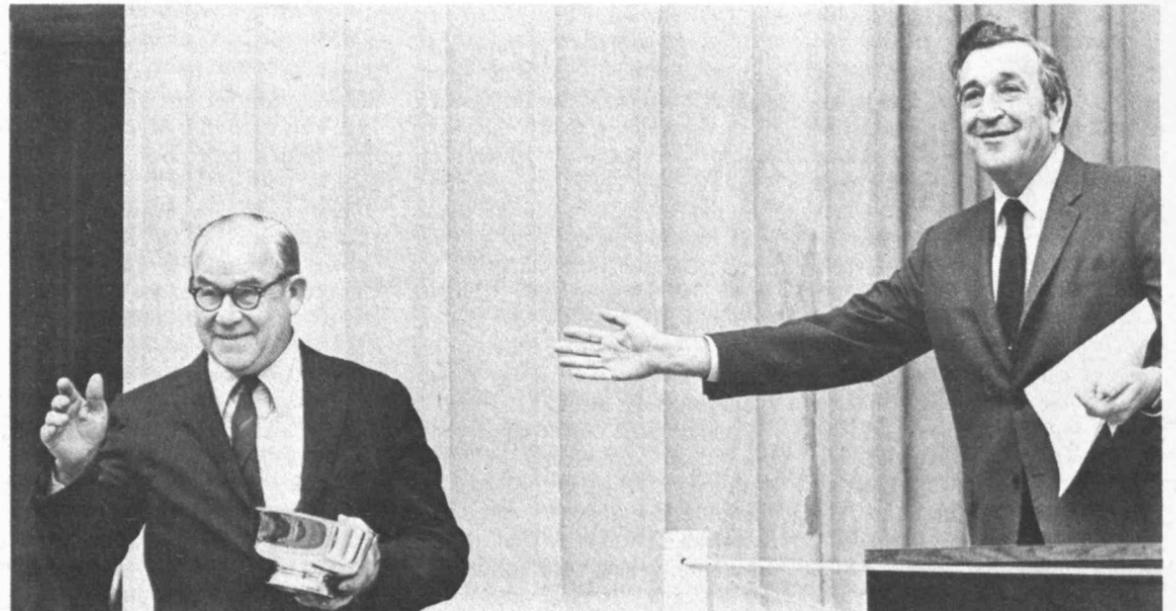
philosophy, Institute governance, and the scientific culture of MIT have brought new depth to student journalism and provoked the community to reexamine its values."

Charles Edward Mann, a senior in political science from Encino, California: "His mature and

reasoned insights have added new dimensions to discussions of education, student environment, and technology and culture; and proved the value of student participation in faculty deliberations."

Ad Hoc Committee on the Role of Women at MIT: "Through their

efforts to study and satisfy the special needs of women students, they fostered a more diverse and exciting environment for all at MIT." The award was accepted by Paula Joyce Stone, a senior in civil engineering from Newton Centre, Mass.
(Continued on page 8)



Baker House's Arthur Schott, left, after receiving the Murphy Award from Dr. Wiesner.

Astronomers Triple-Bounce Radar Pulse off the Moon

Imagine a baseball speeding from Tinkers to Evers to Tinkers to Evers to Tinkers—with Chance ruled out.

That's how pulses of electromagnetic energy traveled back and forth between the earth and the moon in an unprecedented radar triple-bounce just achieved by astronomers working at the world's largest radar telescope in Arecibo, Puerto Rico.

The experiment opens the way for radar studies of the earth by earth-based astronomers working as if they had a radar telescope placed on the moon 238,000 miles out in space.

The triple-bounce experiment was performed by Gordon H. Pettengill, professor of planetary physics in the Department of Earth and Planetary Sciences at MIT, Donald Campbell and Rolf Dyce, both of the National Astronomy and Ionosphere Center (NAIC) at Arecibo Observatory. Professor Pettengill was the principal investigator. His work was supported by the National Aeronautics and Space Administration.

Arecibo Observatory, which is operated by Cornell University for the National Science Foundation, has the only radar telescope in the world sensitive enough to perform the delicate triple-bounce experiment. Even there, although scientists had tried on several previous occasions, the experiment was not possible before last January 25, when a new feed for transmitting and receiving the radar signal became operational and increased the telescope's sensitivity by a factor of nearly ten.

This increased sensitivity was the key to a successful triple-bounce reception because of the diminished strength of the returning signal. After two round trips between earth and moon, the returned signal is more than ten billion times fainter than that from a single round trip. It takes nearly five seconds to complete the two

round trips as compared to 2.5 seconds for a single round trip, and this time difference allows the receiver to reject the much stronger single-bounce signal which would otherwise obscure the triple-bounce echo.

Here is how the experiment worked. The Arecibo Observatory's huge reflector is a fixed bowl of wire mesh 1,000 feet in diameter. A movable feed, suspended 435 feet above the reflecting dish from three tall towers set on the surrounding hills, steers the radar beam within a 40-degree cone centered at the zenith. By directing the signal down on the dish the radar beam is focussed on a target overhead.

For the triple-bounce experiment, the Arecibo radar beam, at its peak power of 2.5 megawatts and at a frequency of 430 megahertz, was first bounced off the surface of the moon back to the earth's surface, where it bounced back to the moon for a final bounce back to the antenna. Since the moon's reflectivity is well known, Professor Pettengill could account for the effect of the two lunar bounces on the radar echo. The remaining effects could be attributed to the reflection from earth.

"This is the first time we have been able to measure the earth's radar scattering law from such a great distance," Professor Pettengill said. "That is interesting not only for itself, but also because radar studies of the earth covering large areas at one time can be compared with other earth studies. The surface reflectivity of the oceans, for example, can provide useful information to support data generated by local oceanographic studies."

Professor Pettengill conducted two sets of triple-bounce observations, on March 17 and 18 and on April 14 and 15. These dates were chosen because at that time the moon is most nearly overhead at Arecibo and is also closest to the

earth, thus maximizing the detectable radar signal.

The radar signal bouncing off the moon toward the earth is predominantly reflected back to the moon from the sub-lunar point on earth. During the recent observations at NAIC this point was always within 500 miles of Puerto Rico, in the Caribbean Sea on the first night and the Atlantic Ocean on the second night of each set of observations. Water is almost a perfect reflector of radio waves, and thus they reflect from the oceans about ten times more efficiently than from dry land.

Professor Pettengill's observational data is being processed on NAIC's large digital computer. When it is analysed, he expects it to give the average wave slope of the water from which it was reflected on the earth, providing a means of remotely establishing the roughness of the Caribbean and the Atlantic.

In 1974, when planned up-grading of the NAIC facility is completed, the radar telescope will have another hundred-fold increase in sensitivity, and Professor Pettengill expects further refinements in studying the earth by radar via the moon. "Since we have been unable to observe the triple-bounce successfully before now," he says, "we have just crossed the threshold of such studies."

"In the future, with increased sensitivity, we should be able to conduct radar studies of dry terrestrial land to extend our knowledge of the earth's scattering law as seen from the far field. This technique would permit synoptic coverage of the whole North Atlantic, for example. When the Sky Lab is orbited in 1973, radar studies of earth from the moon should amplify and supplement data taken by its orbiting telescope, because the moon is some 60 earth radii away from earth while the Sky Lab will be only several hundred miles up."



Mrs. Rosa Combs, left, and Mrs. Jean Parker at the luncheon commemorating their completion of the Clerical Training Program.

Employees Begin New Clerical Training Class

Nineteen Institute employees have begun a ten-week pilot program, sponsored by the Training Section of the Office of Personnel Relations, which offers them the opportunity to improve and enhance their clerical skills.

The new up-grading clerical program is an outgrowth of the year-old Clerical Training Program which helped prepare persons, with insufficient skills, for office work. The new program for full-time clerical employees began on May 1 and will continue through July 10. The course includes classes in secretarial mechanics such as basic or technical typing and office practice, and secretarial methods such as vocabulary and spelling skills, office procedures and business writing. Counseling, in the form of employee-supervisor relationships and job improvement, is also a major component of the program.

The purpose of the new program is to improve the employees' clerical skills as well as to increase

growth potential in the clerical employee level. Employees at a lower status could advance to a higher level, thus creating more openings in the lower clerical areas.

Unlike the new pilot program, the Clerical Training Program was partially supported by the Department of Labor and CAMPS (Co-ordinated Area Manpower Planning Systems) to help the Institute advance equal opportunity hiring.

Men and women in the Clerical Training Program were taught such skills as technical and statistical typing, accounting procedures, and office procedures. Hired as part-time employees they combined classroom training with on-the-job experience.

A year ago 22 persons, many from the Opportunities Industrialization Center in Roxbury, began the Clerical Training Program. Last week 18 of them celebrated the end of their training at a luncheon. All 18 are employed at the Institute.

Coordinator for the new program is Gregory Dunham of the Office of Personnel Relations Training Section. He is assisted by Maxine Moffett, a basic education instructor, and Linda Falvella, a typing instructor. Gordon Jones coordinated the Clerical Training Program.

Students Play in Courtyard

Last week's paper incorrectly announced that the music section would hold concerts in Hayden Court, Monday and Tuesday, May 15 and 16. The concerts were actually scheduled for Tuesday and Wednesday, May 16 and 17. These two concerts are part of a series of four programs featuring performances by MIT faculty and students entitled "Liepyear Concerts."

The series began yesterday with a program of compositions written by students in a class taught by Professor Donald Sur. The three remaining concerts will be held today, and Tuesday and Wednesday, May 23 and 24. All of the concerts will start at 5pm in Hayden Court, unless it is raining, in which case they will be held in the Music Library, 14E-109.

This afternoon, Professor Freeman, pianist, and alumnus Ray Jackendoff, clarinetist, will perform clarinet sonatas by Brahms, and piano variations by David Epstein. A member of MIT's music faculty, Epstein has spent this year on sabbatical in Europe and Israel.

On Tuesday, May 23, students will perform wind works by Poulenc, Villa Lobos and Jackendoff. Next Wednesday, May 24, Professor Buttrick and Professor Freeman will accompany students in a performance of quintets for pianos and winds by Mozart and Beethoven.

State Aid for Private Colleges Favored by Wiesner in Interview



Channel 5's John Henning interviewing Dr. Wiesner.

—Photo by Margo Foote

In an interview with WCVB-TV newsman John Henning last week, Dr. Wiesner discussed some of his reasons for favoring enabling legislation for a Massachusetts Constitutional Amendment which would permit state aid to private higher education. "State aid would benefit all private colleges in the Commonwealth," Dr. Wiesner pointed out, "not just MIT. At MIT the financial problems are not as severe as at some other colleges which need money very badly."

Dr. Wiesner sees a particular danger in continued build up of public higher education at the expense of private universities and colleges. "We can look at the example of New York, which poured enormous sums of money into the development of public

higher education. Whole new campuses were built at great expense, sometimes duplicating facilities which already existed in private colleges and universities.

"Now, New York cannot support its public system adequately and finds that it does not fully answer the needs of all the students as well," Dr. Wiesner said. "The bill before the General Court would help Massachusetts avoid a similar problem."

When asked if universities would lose their autonomy if they received state aid, Dr. Wiesner replied, "There naturally would be some risk. However any legislation enacted following ratification of a Constitutional Amendment would surely embody some protection for the universities. Also," he pointed

out, "universities must be prepared to give up money when unacceptable strings are attached to it." He said that MIT and other universities have done this in the past.

In closing, Dr. Wiesner noted that education is a strong and growing industry in Massachusetts. "Independent colleges and universities are a billion dollar a year business here," he said. "In addition, many colleges and universities in the Commonwealth are especially equipped to respond to the special needs of the areas in which they are located."

The enabling legislation passed in the last session of the General Court and last week was again approved by the legislature. It will appear as a Constitutional Amendment on the November ballot.

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Please address all news and comment to the editorial office, Room 5-111, Ext. 3277.

Eight Faculty Members Retire

Eight members of the faculty will retire at the end of this academic year.

They are: Robley D. Evans, professor of physics; Harold W. Fairbairn, professor of geology; Everett E. Hagen, professor of economics and political science; Deane Lent, professor of mechanical engineering; Klaus Liepmann, professor and director of music; Herbert H. Uhlig, professor metallurgy; and Robert S. Woodbury, professor of the history of technology.

The eighth is Professor Roland B. Greeley, director of admissions and professor of regional planning, who has announced his intention to retire early, sometime within the next few months.

Dr. Evans, professor of physics and director of the Radioactivity Center, is retiring after 38 years at the Institute. He has pioneered in the study of the effects of radium on the human body and established the world's first academic course in nuclear physics. In addition, he was responsible for the establishment of the Institute's Markle Cyclotron Laboratory in 1938. Born in University Place, Nebraska, Dr. Evans attended the California Institute of Technology, where he received the bachelor's degree in 1928, the master's degree in 1929, and a doctorate in physics in 1932. He came to MIT as assistant professor of physics in 1934, was promoted to associate professor in 1938 and professor in 1945. Dr. Evans is now president-elect of the Health Physics Society and will succeed to the presidency in June.

Dr. Fairbairn, a specialist in petrology, geochronology and petrofabrics, has been associated with the Institute since 1931. Born in Ottawa, Ontario, he received the B.Sc. degree at Queen's University in 1929, the M.A. degree in 1931 and the Ph.D. degree in 1932, both from Harvard University. In 1930 he was a graduate student at the University of Wisconsin, and in 1931 he came to MIT as a part-time graduate student. He did post-doctoral work at Innsbruck, Göttingen and Berlin from 1932 to 1934, and was an instructor at Queen's University in Canada from 1934 to 1937. Dr. Fairbairn was appointed assistant professor of geology at the Institute in 1937, associate professor in 1943 and professor in 1955.

Dr. Hagen, professor of economics and political science and former director of the Center for International Studies, is a specialist in the economic and social development of emerging nations. Born in Holloway, Minnesota, he received the B.A. degree at St. Olaf College in 1927, the M.A. degree in 1932 and the Ph.D. degree in 1941, both at the University of Wisconsin. He joined MIT in 1953 as a senior staff member at CIS and was a visiting professor of economics from 1953 to 1959. Dr. Hagen was appointed professor of economics in 1959 and professor of political science in 1965. He became director of CIS in 1970, succeeding the late Professor Max F. Millikan. In February of this year, Professor Hagen asked to be relieved of the directorship to resume teaching and research. During the 1972-73 academic year he will be on a deferred sabbatical at the East-West Center in Hawaii.

Professor Lent of the Department of Mechanical Engineering has specialized in engineering drawing, design and graphics. Born in Ganonoque, Ontario, he received the A.B. degree from Dartmouth College in 1930. Professor Lent attended the Lowell



Prof. Evans.



Prof. Fairbairn.



Prof. Hagen.



Prof. Lent.



Prof. Liepmann.



Prof. Uhlig.



Prof. Woodbury.



Prof. Greeley

Institute in 1938 and studied at MIT in 1940. He joined the Institute staff as an instructor in mechanical engineering in 1938. He was appointed assistant professor in 1944, associate professor in 1963, and professor in 1969. Professor Lent is the author of two textbooks, "Machine Drawing" and "Analysis and Design of Mechanisms."

Professor Liepmann, director of music and chairman of the music faculty, has led in developing the music program into a valuable and active part of MIT's scheme of general education. He is the founder and conductor of the Choral Society, conductor of the Glee Club, and for many years was conductor of the MIT Symphony Orchestra. A native of Kiel, Germany, Professor Liepmann began studying violin at the age of six. At 18 he entered the Academy of Music in Cologne, where he became the protege of the celebrated conductor Karl Muck. After coming to the United States in 1933, he was at Yale University. Professor Liepmann joined the MIT faculty as assistant professor of humanities and director of music in 1947, was promoted to associate professor in 1951 and professor in 1956.

Professor Uhlig of the Department of Metallurgy and Materials Science is an expert on corrosion and electrochemistry. His work in the field of corrosion began in 1936 when he was appointed research associate at the Institute in charge of the MIT Corrosion Laboratory, then established to investigate pitting corrosion of stainless steels. Born in Haledon, New Jersey, Professor Uhlig received the Sc.B. degree from Brown University in 1929 and the Ph.D. degree from MIT in 1932. He joined the staff of the General Electric Research Laboratory in 1940, but returned to the Institute in 1946 as associate professor of metallurgy. In 1953 he was promoted to professor.

Professor Woodbury has

specialized in tracing the development of technology in the United States as interwoven with economic and social influences. Before World War II he initiated a brief program in the history of technology at the Institute and has since expanded it into several courses. A native Bostonian, Professor Woodbury received the S.B. degree in mathematics from MIT in 1928 and the A.M. degree from Harvard University in 1936. He joined the Institute staff as an instructor of English and history in 1929, was promoted to assistant professor of the history of science in 1936 and in 1946 became assistant professor of English and history. He was appointed associate professor of humanities in 1959 and professor of the history of technology in 1963.

Professor Roland B. Greeley, director of admissions and professor of regional planning, was a member of the Department of City and Regional Planning (now the Department of Urban Studies and Planning) for 16 years before his appointment to Director of Admissions in 1961. He is widely known in the planning profession and has served as a consultant to numerous cities and agencies in this country and abroad. A native of Lexington, Professor Greeley received the B.A. degree from Harvard University in 1931 and went on to take his M.C.P. at the Harvard City Planning School (now the School of Design). He was appointed assistant professor of regional planning at MIT in 1945 and became associate professor in 1947. From 1951 to 1952 Professor Greeley served as acting head of the Department of City and Regional Planning. He was promoted to the rank of professor in May, 1961, and in June was named Director of Admissions. He has served on a number of faculty committees, giving special attention to undergraduate policy, student environment and student aid.

Financial Information Return Date Changed

Stuart H. Cowen, Institute comptroller, has announced several changes in the financial aspects of student registration, to take effect next semester.

Financial material will be mailed separately from the Registrar's material. The material will be mailed on June 23, and is due back at the Institute by July 10.

Students who elect to defer their payments will be subject to a \$10 per term service charge.

Also a \$10 late charge will be assessed on all payments that are not received when they are due.

"These changes result from a significant increase in the number of students being carried as delinquent in payment of their fees," Mr. Cowen stated.

"We did a study soon after registration this spring and found that the increase in delinquencies stems from two causes.

"One is that the number of true delinquencies is rising, and the other is difficulties with communications and the flow of information," Mr. Cowen said. "Many students were being carried as delinquent when, in fact, the only delinquency was in the administrative flow of information.

"The main reason we are advancing the mailing and return dates for financial information is to allow time for a comparison between what the student expects in terms of aid or assistance and what the various sources of aid have proposed," he continued.

"The additional time will allow

our office to review any differences with the office involved and resolve discrepancies before the student arrives for registration.

"In addition, meetings have been scheduled with the Deans and Administrative Officers of academic departments in order to improve the clerical flow of staff appointments and departmental awards and to facilitate earlier confirmation to students of the appointments and awards.

"Students who have not made satisfactory financial arrangements by registration day will not be permitted to complete the registration procedure. Registration will automatically be cancelled six weeks after the beginning of the term for those students who permit their accounts to fall in arrears. To reestablish their student status those individuals will be required to apply for readmission—undergraduates through the Dean for Student Affairs Office, and graduate students through the Dean of the Graduate School," Mr. Cowen pointed out.

"Also," he continued, "students expecting to receive degrees must resolve any indebtedness to the Institute before their names can be placed on the Degree list."

The new rules resulted from consultation among all offices involved, including Student Affairs, Financial Aid, Admissions, the Registrar, Housing and Dining, Foreign Student, the Graduate School, the Medical Department and the Comptroller's Offices.

Three Elected Fellows of American Academy

Three MIT faculty members have been elected Fellows of the American Academy of Arts and Sciences at its annual meeting in Boston.

Professors Howard Green of biology, Arthur K. Kerman of physics, and Robert W. Mann of mechanical engineering were among 18 scholars and scientists from Massachusetts elected during the meeting.

In addition, Dr. Bernard T. Feld, professor of physics, was elected a vice president of the Academy.

The Academy is the second oldest learned society in the United States. Its 2,200 members include representatives from the mathematical, physical and biological sciences as well as law, public affairs, administration, theology, fine arts and the humanities.

Dr. Green, of Brookline, received the M.D. degree from the University of Toronto in 1947 and the M.S. degree in physiology from Northwestern University in 1950. He served as a research associate in the Department of Biochemistry, University of Chicago, visiting scientist for the National Institutes of Health, and professor of pathology and chairman of the Department of Cell Biology at New York University School of Medicine before coming to MIT in 1970.

Professor Kerman, of Winchester, was graduated from McGill University with the B.Sc. degree in 1950, and received the Ph.D. degree from MIT in 1953. He did post doctoral work at the California Institute of Technology and the Institute for Theoretical Physics, Copenhagen, Denmark, before returning to MIT as an assistant professor of physics in

1956. He was named associate professor in 1960 and full professor in 1964.

Professor Mann, of Lexington, received the S.B., S.M. and Ph.D. degrees from MIT in 1950, 1951, and 1957, after which he joined MIT Dynamic Analysis and Control Laboratory as a research engineer. He was named associate professor in 1958 and professor in 1963. His principal research interest is in developing aids for handicapped people, and he has participated in the development of many sensory aids and prosthetic devices for the blind, deaf-blind and amputees.

Dr. Feld, of Cambridge, received the B.S. degree from City College of New York in 1939 and the Ph.D. degree from Columbia University in 1945. As a graduate student he worked with Dr. Enrico Fermi and Dr. Isador Rabi to create the first nuclear chain reaction and the first atomic bomb. He came to MIT in 1945 as an instructor, and was appointed professor in 1957.

Van der Schijff To Speak Here

Professor Hermanus Philippus Van der Schijff, Head of the Department of General Botany at the University of Pretoria, South Africa, will speak at MIT on Sunday, May 21.

The Cambridge Plant and Garden Club is sponsoring the lecture, entitled "A Naturalist's View of the Kruger National Park," in honor of the Arnold Arboretum's Centennial Celebration.

The talk will begin at 8pm in the Little Theatre and is open to the public.

THE INSTITUTE CALENDAR

May 17
through
May 26

Events of Special Interest

Student Art Association Exhibit and Sale*

Wednesday, May 17, through Friday, May 19, 11am to 6pm, Student Center "Center" Lounge.

WTBS Series on Modern Psychotherapy

Interview with psychotherapist **Dr. Moshe M. Blatt**, Monday, May 22, 9:30-10:30pm; interview with members of Dr. Blatt's therapy group, Thursday, May 25, 9:30-10:30pm. WTBS, 88.1 FM.

Seminars and Lectures

Wednesday, May 17

Social Behavior of Penguins*

Prof. Jonathan A. King, biology. ERC Colloquium. 12n, Rm 10-105.

Optical Guided Waves*

Prof. E. M. Conwell, Abby Rockefeller Mauze Visiting Professor in Electrical Engineering. Mauze Lecture. 12n-1pm, Rm 3-133.

Plastic Deformation of Polymers*

Wen Li Wu, mechanical engineering. Doctoral thesis presentation. 2pm, Rm 5-217.

American Society in Transition*

Prof. Jay W. Forrester, management. 4pm, Sala de Puerto Rico.

The Technology of Informatics*

C. Stark Draper, Institute Professor Emeritus, president of C. S. Draper Laboratory. Humanities Dept Seminar. 4pm, Rm 14E-304.

A Numerical Model of the World Oceans*

Dr. Kirk Bryan, Geophysical Fluid Dynamics Laboratory, Princeton University. Meteorology Seminar. 4pm, Rm 54-100. Coffee, 3:30pm, Rm 54-913.

Reliability under Dynamic Loadings

Prof. M. Shinozuka, Dept of Chemical Engineering, Columbia University. Civil Engineering Seminar Series on Structural Safety Theory. 4-5pm, Rm 1-353. Coffee, 3:30pm.

High Energy Short Pulse CO₂ Amplifiers*

Dr. Charles Senstermacher, Los Alamos Scientific Laboratory. National Magnet Lab Seminar. 4:15pm, 2nd Flr Conference Rm, National Magnet Lab. Coffee and tea, 4pm.

Thursday, May 18

The Molecular Basis of Deformation in Polycarbonate

Anthony C. Lunn, mechanical engineering. Doctoral thesis presentation. 10am, Rm 1-132.

Gaming and Modelling as Tools for Appraising Development Projects in Maine*

Presentation by students in Special Studies in Systems Engineering. Little Theatre, 1-5pm.

Evaporation Rate of Reacting Crystals*

Dr. Chul Park, visiting scientist. Thermodynamics Seminar. 4pm, Rm 3-343.

Metabolism of Low Density Lipoproteins in Man*†

Dr. Gustav Schonfeld, metabolism and human nutrition. Nutrition and Food Science Seminar. 4:30pm, Rm 16-134. Coffee, 4:15pm.

The Riddle of Redshifts

Prof. Geoffrey Burbidge, University of California at San Diego. Physics Colloquium. 4:30pm, Rm 26-100. Tea, 4pm, Rm 26-110.

Friday, May 19

Dynamic Response of the Semicircular Canal and Lateral Line Organs

Charles M. Oman, aeronautics and astronautics. Doctoral thesis presentation. 10am, Rm 33-206.

Phase Equilibria in Gas Mixtures at High Pressures: Some Implications for Planetary Structure

Lt. Col. William B. Street, director, Science Research Laboratory, US Military Academy. Special Earth and Planetary Sciences Seminar. 4pm, Rm 54-811.

Convection Flow in Toroidal Magnetized Arcs

Dr. F. C. Schuller, FOM Institute for Plasma Physics, Jutphaas, Netherlands. RLE Plasma Dynamics Seminar. 4pm. Rm 26-214.

Monday, May 22

Dynamic Nonlinear Elastic Stability of Helicopter Rotor Blades in Hover and in Forward Flight*

Peretz Paran-Friedmann, graduate student, aeronautics and astronautics. Doctoral thesis presentation. 10am, Rm 33-206.

Electron Rules to Understand the Crystal Structures of Simple Iono-Covalent Compounds*

Prof. Erwin Parthe, Laboratoire de Cristallographie aux Rayons X, Université de Genève Switzerland. Metallurgy and Materials Science Seminar. 2pm, Rm 5-218.

The Spectrum of Light Scattered by Biological Molecules*

Prof. George B. Benedict, physics. Harvard-MIT Program in Health Sciences Seminar. 4:15pm, Rm 9-150. Coffee preceding.

Tuesday, May 23

Accurate Satellite Tracking with Very Long Baseline Interferometry*

Robert A. Preston, graduate student, aeronautics and astronautics. Doctoral thesis presentation. 2pm, Rm 33-206.

Wednesday, May 24

Study of A Charged Condensing Cesium Amalgam Vapor Jet*

Stanley L. Milora, graduate student, aeronautics and astronautics. Doctoral thesis presentation. 2pm, Rm 37-232.

Women's Forum

Note: Meetings are open to all members of the community.

Bi-weekly and Administrative Staff

Discussion of reactions to submitted proposal. Thursday, May 18, 12n, 10-105.

Faculty and Research Staff

Open meeting. Friday, May 19, 1pm, Rm 10-280.

Women's Forum

Open discussion. Monday, May 22, 12n, Rm 10-105.

Student Meetings

Premedical Students

Dr. William Fleeson, dean of student affairs, and **Dr. Parlane Reid**, associate professor of biochemistry, at University of Connecticut School of Medicine will speak with all premedical students, Friday, May 19, 12n, Rm 2-147.

Student Information Processing Board Meeting

Every Monday, 7:30pm, Rm 39-200.

Thursday Staff Meeting**

Every Thursday, 8pm, 2nd floor, Walker.

Technique Staff Meeting

Every Saturday, 11am, Student Center Rm 457.

ERGO Staff Meeting

Every Sunday, 6pm, Student Center Rm 443.

MIT Club Notes

Scuba Club

Pool session. Wednesday, May 17, 8pm, Alumni Pool.

Community Players*

Election meeting. Also Bob Healey and members of his acting class will demonstrate typical class activities. Monday, May 22, 7:30pm, Faculty Club Penthouse.

Classical Guitar Society**

Concert guitarist **Hugh Geoghegan** is available for private instructions for intermediate and advanced students. Call Vo Ta Han, 661-0297.

Baker House SPAZ Jogging Club**

Daily, 10:45pm, Baker 2nd Floor West.

Unicycle Club*

Every Sunday, 3pm, in front of Student Center. Beginners welcome. Call Andy Rubel, X3161.

Hobby Shop**

Open weekdays, 10am-4:30pm, duPont Gym basement. Fee: students, \$6/term or \$10/year; community \$15/year. Call X4343.

Tiddlywinks Association*

Every Monday, 8-11:15pm, Student Center Rm 491.

MIT/DL Duplicate Bridge Club**

Every Sunday, 2:30pm, Walker Blue Rm. Every Tuesday, 6pm, Lobdell.

Soaring Association**

First and third Mondays every month. 7:30pm, Student Center Rm 473.

Judo Club**

Every Monday, Wednesday, Friday, 5pm; every Saturday, 1pm. duPont Gym Exercise Rm. Beginners welcome.

Outing Club*

Every Monday, Thursday, 5pm, Student Center Rm 473.

Nautical Association**

Basic Sailing Shore School, repeated every Monday and Thursday throughout the spring, 5:15pm, Sailing Pavilion, non-members welcome.

Fencing Club**

Every Tuesday, 6-9pm, duPont Fencing Rm.

Glee Club**

Every Tuesday, Wednesday, Thursday, 5-6:30pm, Kresge. New members, especially tenors, welcome. Call Cyril Draffin, 247-8691.

Classical Guitar Society**

Classical guitar classes, group or private. Every Tuesday and Thursday, 5-8pm, Rms 1-132, 1-134, 1-136. Anyone interested in lessons, call Vo Ta Han, 661-0297.

Rugby Club

Practice. Every Tuesday and Thursday, 5pm, Briggs Field.

Urban Vehicle Design Competition

Volunteer meetings. Every Wednesday, 3pm, Rm E40-250.

Table Tennis Club***

Practice session, every Wednesday, 7:30-10:30pm, T-Club Lounge, duPont.

Science Fiction Society*

Every Friday, 5pm, Rm 1-236.

Student Homophile League*

Meeting and mixer meets Fridays, 7:30pm, Mission Church 33 Bowdoin St., Boston. For gay help (anonymous) at MIT call the student gay tutor, 492-7871 anytime.

ACBL Duplicate Bridge*†

Bridge Club. Every Saturday, 1:30pm, Student Center Rm 473. Members, free; non-members, 75 cents.

Chess Club**

Every Saturday and Sunday, 1:30-5:30pm, Student Center Rm 491.

Social Events

Society of Sigma Xi**

Informal coffee hour. Thursday, May 18, 4-5pm, Student Center Rm 407. Host, **Prof. W. Kornegay**.

Muddy Charles Pub**

Join your friends at the Muddy Charles Pub, 110 Walker daily 11:30am-7:30pm. Call X2158.

Friday Afternoon Club**

Music, conversation and all the cold draft Budweiser you can drink. Every Friday, 5:30pm, Ashdown basement Games Rm. Admission: men \$1, women 50 cents. Must be over 21.

Movement Games*

Series of weekly sessions where people can meet and interact through dance and movement games that produce spontaneity of feeling and thought, and bring new perspectives into the meaning of friendship. Sponsored by Harvard Graduate Student Association. Every Tuesday, 8pm, Harvard Business Commons.

Movies

Fluid Dynamics of Drag (Parts 3 & 4)

Fluid Mechanics Film. Thursday, May 18, 4-5pm, Rm 3-270.

Pyar Kiye Jaa

Sangam film. Sunday, May 21, 3:30pm, Rm 26-100.

Music

Soundings*

Sonic environmental works directed by **Paul Earls**, including live feed-back system, performances of multi-channel electronic works and live and electronic music performances. May 10 through May 19, Hayden Gallery.

Liepyear Concerts*

Performances by students and faculty. Wednesday, May 17, Tuesday, May 23; Wednesday, May 24; 5pm, Rm 14E-100. Free.

Noonhour Concert*

Handel's *Lucrezia* with soprano **Sandra Stuart** and **John Cook** on harpischord. Thursday, May 18, 12n, Chapel.

sterworks Chorale*

rogram: Poulenc's *Gloria* and Durufle's *Requiem*, conducted by Allen Lannom, with soloists soprano Jane Bucci and mezzo Susan Fisher Clickner. Saturday, May 20, 8:00pm, Kresge. Tickets: \$3.50, \$4.50, \$5.50/student rates available. Call 244-0984.

heater and Shows

coil*

Community Players production of 8 short one-act plays. Wednesday-Sunday, May 17-21, 8pm, Rm 9-150. Tickets, \$7.50, call X6294.

Dance

folk Dance Club*

International folk dancing. Every Sunday, 7:30-11pm, Sala Puerto Rico (exceptions to be posted).

Modern Dance Technique Class**

Elementary/Intermediate. Every Monday, Wednesday, Friday, 5:15pm. Every Sunday, 1pm. McCormick Gym.

folk Dance Club*

Italian folk dancing. Every Tuesday, 7:30-11pm, Student Center Rm 407.

folk Squares*

Every Tuesday, 8-11pm, Rm 10-105. Call dorm X0888 or 2-5453.

folk Dance Club*

Israeli folk dancing. Every Thursday, 7:30-10pm, duPont T-Club Lounge.

Friday Afternoon Dance Break*

International folk dancing on the Kresge Oval, every Friday (weather permitting), 12:30-1:30pm.

Exhibitions

Klaus Liepmann Retrospective*

Exhibition of posters and programs illustrating the history of music at MIT, honoring Klaus Liepmann, director of Music. Hayden Corridor Gallery, through May 22.

Retrospect II—from William Barton Rogers to Karl Taylor Compton*

Collection of historical portraits, busts and photographs depicting the first 11 presidents of MIT, early scientific and engineering achievements as well as portrayals of everyday life from 1861-1941. Sponsored by the Committee for Institute Memorabilia. Hayden Gallery, opening Monday, May 22.

Culty Club Exhibit

Exhibition of paintings, drawings, etchings by Ruth Boyce, Culty Club through June 1.

Autographed Music Scores

Exhibition of autographed musical scores in honor of Klaus Liepmann and the Choral Society. Music Library (Rm E-109) through the summer.

Graduate Show*

Photographs taken by students enrolled in Minor White's graduate photography course. Creative Photography Gallery through May. Open daily 12n-7pm.

Hart Nautical Museum*

Exhibits include "Naval Undersea Research and Development Center," and "The Art of Rigging." Bldg 5, first floor.

Athletics

Freshman Tennis*

Phillips Exeter Academy. Wednesday, May 17, 3pm, duPont Tennis Courts.

JV/F Lacrosse*

Roxbury Latin School. Wednesday, May 17, 4pm, Briggs Field.

Religious Services and Activities

The Chapel is open for private meditation from 7am to 11pm every day.

Shavuoth Services*

Hillel. Thursday, May 18, 8pm; Friday, May 19, 9:30am and 8pm; Saturday, May 20, Yizkor Memorial Service, 8:30am. Chapel.

Divine Light*

Shri Mata Ji, mother of 14-year-old Perfect Master Guru Maharaj Ji, will give discourse on experience of inner peace which her son is revealing to the world. Thursday, May 18, 7:30pm, Kresge. Free. For more information, call 369-1603 (Concord).

Roman Catholic Mass*

Every Sunday, 9:15am, 12:15pm, 5:15pm, Chapel.

Christian Worship Service*

Every Sunday, 11am, Chapel.

Christian Discussion Group*

Bible study and discussion of Christianity today. Every Sunday, 9:30-11am, McCormick Seminar Rm A. Call Ron Gamble, X6712 or 547-4279.

Hillel Religious Services*

Monday-Friday, 8am, Rm 7-102; Fridays, 7:30pm, Chapel; Saturdays, 9:30am, Chapel.

Divine Light Mission*

Discourses on the direct experience of Truth given by Guru Maharaj Ji. Every Monday, Wednesday, Friday, 7:30pm, Rm 4-145. Call 369-1603 (Concord).

Ananda Marga Yoga Society*

Group meditations. Every Tuesday, 5pm, Rm 14E-303. For information, call X3664.

Christian Science Organization*

Meeting includes testimony of healings. Every Tuesday, 7:15pm, Rm 8-314.

Latter Day Saints Student Association**

Religious seminars. Every Tuesday, 8am, Student Center Rm 473.

Christian Bible Discussion Groups*

Every Wednesday, 12:30pm, Rm 4-343; every Thursday, 12:30pm, Rm 20B-222. Call Prof. Schimmel, X6739, or Ralph Burgess, X2415.

Christians for Dinner*

United Christian Fellowship. Every Thursday, 6-7pm, Walker Dining Hall (under sign of the fish).

Praying, Singing, Sharing Meeting*

United Christian Fellowship. Every Thursday, 7-8pm, East Campus Lounge.

Islamic Society Prayers*

Every Friday, 1pm, Kresge Rehearsal Rm B.

Vedanta Services*

Every Friday, 5:15pm, Chapel; discussion hour, 6pm, Ashdown Dining Hall.

College Life Campus Crusade for Christ*

Brothers and sisters for fellowship and a time for teaching from the Open Book. Every Friday, 7-9pm, Rm 1-132.

Islamic Society Discussion*

Isha prayers followed by discussion of various aspects of the Islamic way of life. Every Friday, 7:30pm, Student Center Rm 473. Coffee and doughnuts served.

Free Draft Counselling*

Hillel, 312 Memorial Drive, X2982. Call or visit 10am-5pm.

Announcements

High School Studies Program

Volunteer instructors are needed for the summer term, June 22 to August 27. Application forms are available in Student Center Rm 467, X4882.

Recreational Reading Collection

The newly formed Recreational Reading Collection, to be housed in the Student Center Library, needs undergraduate volunteers as members of its directing board. The board, consisting of three librarians and three students, will purchase and process books and set policy for the collection. Call Roger Koch, 661-9295.

*Open to the Public

**Open to the MIT Community Only

***Open to Members Only

†Freshmen encouraged to attend

Send notices for May 24 through June 2 to the Calendar Editor, Room 5-111, Ext. 3279, by noon Friday, May 19.

Retrospect II Commemorates Institute's History from 1861-1941

Men and women who shaped MIT history from 1861 to 1941 will be commemorated in "Retrospect II—from William Barton Rogers to Karl Taylor Compton," an exhibition of portraits, busts and photographs that will open on Tuesday, May 22, in Hayden Gallery.

Sponsored by the recently formed Committee for Institute Memorabilia, "Retrospect II" will bring together, for the first time, a collection of major art works of historical significance to the Institute. There will be portraits of the first 11 presidents, beginning with William Barton Rogers, who was the Institute's founder and first president, and ending with Karl Taylor Compton, who was president from 1930 to 1948. Ellen Lowell Richards, a member of the Class of 1873 and MIT's first cois one of five women portrayed in the exhibit. In addition, there are portraits of benefactors and one of the Institute's first professors.

The works compose an impressive collection of the late 19th and early 20th century American art. Noted painters represented in

"Retrospect II" include Frank Benson, Joseph De Camp, Philip de Lazlo, Gabriel-Ferrier, Chester Harding and Gertrude Fiske. The busts in the exhibit include works by Selmer-Larsen, R.S. Greenough and Daniel Chester French, who was a member of the Class of 1871 at MIT and who designed the Lincoln Monument in Washington D.C.

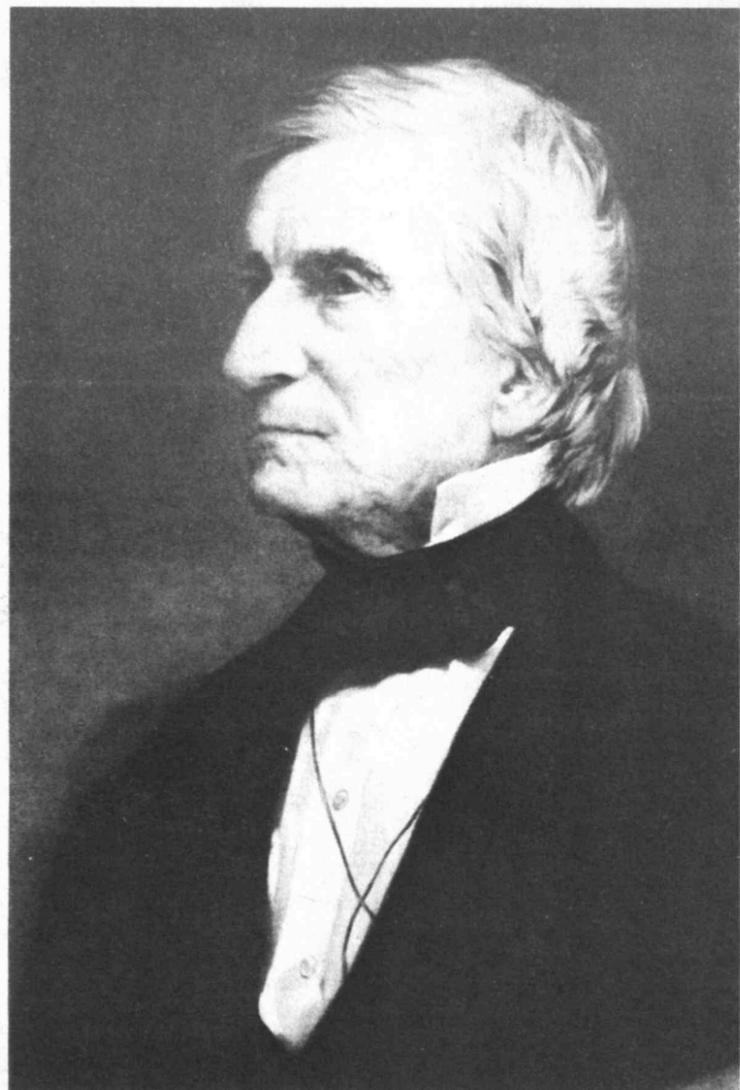
Also included in "Retrospect II" are photographs, drawings and newspaper facsimiles that show life at the Institute from its founding in 1861 through 1941. This portion of the exhibit, which will be displayed in the corridors immediately outside of Hayden Gallery, focuses on the lives of presidents Francis A. Walker and Richard C. Maclaurin, as well as Rogers and Compton. The photographs and drawings will also portray scientific and engineering achievements that took place under these men, in addition to scenes of everyday life.

The idea for "Retrospect II" grew out of "MIT Retrospect—1861-1916," an exhibition which portrayed the first 55 years at the Institute. "MIT Retrospect" was presented by the Department of

Humanities in connection with the inauguration of President Wiesner last fall.

Many artifacts were discovered during the search that preceded the first exhibit, including sculpture, paintings and furniture. In connection with the discovery of these art objects, the Committee for Institute Memorabilia was formed in January 1972. The committee, whose chairman is Richard M. Douglas, head of humanities, serves four major functions: to locate items of historical significance; to arrange for cleaning and restoration of damaged items; to unite the pieces into an integral collection in a suitable place; and to prepare an inclusive catalogue of the collection.

Walt Taylor, curator of the historical collection, and administrator Warren Seamans have arranged "Retrospect II," with help from Professor Douglas, Howard W. Johnson, Chairman of the MIT Corporation, and the Committee on the Visual Arts. Funds for the restoration of the works on exhibition were contributed by MIT alumnus I. Austin Kelly III of New York City.



Founder William Barton Rogers in an 1874 portrait by Jacob H. Lazarus.

Nyhart Named Coordinator for Preprofessional Areas

(Continued from page 1)
the position of Dean for Student Affairs."

Professor Nyhart's new assignment as MIT's coordinator of law-related studies gives a formal organizational focus to a growing interest on the part of many MIT students and faculty in legal and governmental aspects of national life.

Numerous MIT students, President Wiesner said, have in recent years begun to seek ways to focus their MIT undergraduate educational experiences in the areas of law, public administration, education and medicine. For example, Dr. Wiesner said, significant numbers of MIT graduates are going on for professional training at law schools and medical schools.

"Professor Nyhart's new assignment in the legal field represents a first step in the implementation of the recommendations of a study group appointed by the Provost which has, during recent months, examined the status of law-related studies at MIT," President Wiesner said. "In his new capacity, Professor Nyhart will work closely with the office of the Provost and, in particular, with Dr. Louis Menand, III, assistant to the Provost, who has provided guidance and support for a wide range of student interests including law, education, and community action programs."

Professor Nyhart will be a member of the Committee on Preprofessional Advising and Education and will have administrative responsibility for the office which supports that Committee, Dr. Wiesner added.

"Professor Nyhart has served the Institute with distinction, devotion and unbounded energy as Dean for Student Affairs since 1969," the president said. "These last three years have presented unusual challenges concerning the relationships between students and universities, particularly in the



Professor J. Daniel Nyhart.

areas of student government, extracurricular interests, and interaction with the larger society. Dean Nyhart's leadership has served the Institute and its students well for this period."

At the same time, President Wiesner announced that Dr. Benson R. Snyder, dean for Institute Relations, to whom the dean for Student Affairs has previously reported, has requested a sabbatical leave, beginning in January, 1973, to pursue his scholarly interests in education and the human sciences at Oxford University. Dean Snyder will continue in his present post with broad responsibilities in Institute policy making, Dr. Wiesner said, and he will also have, during this period, primary responsibility for implementing the recommendations of the Special Task Force on Education, chaired by Professor Hartley Rogers, of which he was a member.

Dr. Eisenberg was born in Buenos Aires, Argentina in 1917. She received her M.D. degree from the University of Buenos Aires and took her specialty training in psychiatry at the University of Maryland and the Johns Hopkins Hospitals.

She came to MIT in 1968 from

Johns Hopkins University where she was an assistant professor in psychiatry and pediatrics in the School of Medicine. Since 1969 Dr. Eisenberg has been a lecturer in psychiatry at the Harvard Medical School and consultant in psychiatry at Massachusetts General Hospital.

Dr. Eisenberg is a Fellow of the American Psychiatric Association and of the American Orthopsychiatric Association and a member of the American Women's Medical Society, the American Association of University Professors, the American College Health Association and the American Association for the Advancement of Science. She is also a trustee of the Cambridge Family Society.

Dr. Eisenberg is married to Dr. Leon Eisenberg, head of psychiatric services at Massachusetts General Hospital. They make their home in Cambridge.

A native of Indianapolis, Indiana, where he was born in 1931, Professor Nyhart graduated from Princeton University in public and international affairs in 1953 and received the J.D. degree from Harvard Law School in 1958. Prior to assuming his duties as Dean, he served as associate professor of management at the Sloan School of management where he taught in the fields of law, government-business relations and development finance.

Among his research activities, Professor Nyhart has carried out studies for the United Nations and Ford Foundation. He has also been a consultant to the Development Center of the Organization for Economic Cooperation and the Ford Foundation. He is an annual lecturer on development finance institutions at the World Bank's Economic Development Institute.

Professor Nyhart and his wife, the former Virginia Gibbon, have three children and reside in Brookline.

Lord Zuckerman Denounces Cries About Impending Doom

In the second part of his two-part Compton lecture, Lord Zuckerman, former chief science advisor to the British government, spoke against those scientists who cry out about impending doom and then urge remedies so deceptively simple that they discredit the name of science.

Lord Zuckerman's entire Compton Lecture was entitled "Sense, Science and Society." The second half of the lecture, entitled "Internal Stresses and Strains," was presented last Thursday, May 11.

Those scientists, Lord Zuckerman said, are ready to eliminate the basic methods of science in order to impose their wills upon their fellow men and avert the disasters they see ahead.

"The one would suppress scientific knowledge, and the other forget about human reason, one compel people not to breed, and the other not to treat their fields with artificial fertilizer," said Lord Zuckerman, "and finally comes the package negation, stop breeding, stop economic growth, stop polluting—or the end is nigh."

The public laps up the messages, said Lord Zuckerman, one of the

reasons is that there is some truth to what they read. The net effect of what those scientists are doing is bad, however, he noted. "The scientists who are working seriously at these problems find themselves impelled to say, 'Lord, save us from our friends, whose extravagant messages, coupled with calls for action which are meaningless in the real world, help fan the anti-scientific and anti-technological flames,'" said Lord Zuckerman.

Speaking about one aspect of the problem, Lord Zuckerman said the concept of the social responsibility of the scientist implies that scientists can stop the processes that cause some applications of scientific knowledge to turn sour and encourage those that will do good. Yet, he pointed out, the more fundamental and far-reaching a scientific discovery, the less chance one has of foretelling its consequences.

Citing a specific example, Lord Zuckerman pointed to "Lauger, who in 1936 tested the properties of a bottle of DDT which Zeidler had left on a shelf in 1874, and who then put it to work, believed that he was doing good by eliminating

mosquitoes and other insect pests. How could he and his colleagues have predicted that their valuable chemical would not only eliminate the mosquito, and so banish malaria, but would also build up in the tissues of some creatures, with consequences which, although they cannot as yet be assessed for certain, might turn out to be serious. Should they have denied the world DDT because it has in some cases been shown to cause what is now called ecological harm?"

In spite of this inability to foretell specific results, Lord Zuckerman said that scientists could and should "bring their special knowledge to bear when major policy decisions are made on matters which depend upon a wise assessment of the scientific and technical facts as seen in the context of the relevant political, social, and economic considerations."

While helping, Lord Zuckerman pointed out, the scientist must realize that he enters a realm "in which questions of fact can be stated in the language of science, but which are unanswerable by science."

CLASSIFIED ADS

For Sale, Etc.

Peugeot 10-spd bike, woman's frame, UE-18, light, fenders, carrier, ridden less than 50 mil, \$115. Don Roth, X2396.

SMC port typwrtr, gd cond, \$35; GE port stereo, \$35; girl's 5-spd Schwinn, \$35. Susan Giller, X2384.

Typwrtr, Remington port, lk new, \$28. Peter, X6162.

'60 IHC Carryall, gd cond. Dorm X8693.

Furn: K tbl & chrs, \$25; dresser, \$12; convert couch, \$10; bed, \$15; desk, \$20; easy chr, \$5; rugs & pad, \$10; bkcase, \$10; rm divider & closet (5'x7'), \$25; TV, \$25; curtains, 4, \$7. Joe, X7075.

Minolta SRT 101 w/135mm 2.8 & 28mm 3.5; Nikkormat 1.4 black; both new, w/guarantee, 40% off list. Williams, X7828.

Spd Queen washer, best offer. X6757, or X6931 evgs.

Solid st clock radio, am-fm, \$15. Siv Berg, X5657.

TV, mod b&w, 15", 10 mo old, exc cond, \$60 or best offer. Victor, 868-1897.

Furn, all kinds, cheap; need bagpipe instructor, gd pay. X4710.

Typwrtr, Underwood, \$18. X5069.

Carved onyx chess set from Mexico, Aztec figures, \$30; Wanted: used Nikon or Nikkormat equip. Susan, X1486.

Skis, 210cm, GT500, fbrgl, w/Ty step-ins, poles, \$80; box spring matt, frame, \$40. Robert Berman, X7787.

Concertone tape deck w/control spkrs, 6 hyperbolic heads, 3 motors, solenoid switches, reversible, exc cond, was \$500 now \$255. Ziggy, X3782.

Fisher 400 stereo receiver w/walnut cab, \$120; 2 Fisher XP-5 walnut spkrs, \$35 each; complete system, \$175. Michael, X7622 Linc.

Sears air cond, 14,000BTU, 2 yrs old. Terry Rieck, 547-7320.

Peugeot woman's 10-spd touring bicycle, \$75. Mark, X2920.

Scott amp, \$65; Sony 2-head tape deck, \$80. George Howe, Dorm X8693.

Tent, sewn in flr, slps 8, 2 side windows, 1 bk window, storm flap door, easy to erect, \$70; bunk bed, foam matt, steel frame, \$15; 24" girls bike, \$7. Frances Chan, X158 Linc.

Assorted antiques; 18K gold jewelry. Buyrn, X4155 or X4244.

Scott 342 (28/28), Dual 1209, Pickering XV-15/400E cartridge, Marantz IV-A spkrs, 18 mo old, \$350. W. Ku, X3161 lv msg.

Sansui 5000, Miracord 50 H, Shure V15IIE cartridge, AR-3a spkrs w/stands, system \$650 or best, Sansui 5000 \$200 or best. Benesch, X3161 lv msg.

Army mummy sleeping bag, new, \$20; Army boots, 9, used once, \$10, 10, new, \$12; stuff sack for sleeping bag, \$2; bed frame w/hdboard, maple, \$15; matching night tbl, \$5; Brundy B-flat trumpet, exc cond, \$65. William Watson, X7821.

Wedding dress, 7. Dale, X5355.

VW tires, 4, orig equip, 5.60x15, 7K miles. Jerry, X6910.

Iron, \$2; elec broom, \$4; hot tray, \$5; bun warmer, \$5; elec knife, \$10; elec can opener & knife sharpener, \$8; lighted mirror, \$3; dbl bedspread, \$4; 10-gal fish tank w/acc, \$10; Kodak M12 movie camera, \$15; Harv bed frame, \$12; Dan mod sofa, \$30; baby carr, \$12. Robert Marmor, X1859.

Compl ham rig: Johnson Ranger I trans; SX-111 rec; key; microphone; filter; SWR meter; & acc; \$200, w/ haggle. Steve, X2441.

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 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. 3270 or mailed to Room 5-105. The deadline is noon Friday.

Hsehold furn: bkcase, BR set, refig, tbls, chrs, etc. Lieb, X2687.

Roll-top desk, oak, exc cond. Claude, X4365.

Zenith port stereo, fr cond, \$10. Sonney, Dorm X8564.

Martin guitar, 0-118, 1/3 off list price. Lou, X6255.

Mark IV ski rack, fits most cars, holds 4 pr skis & poles, blt in locks, used 1 seas, \$10. Tony Borsini, X3501.

Admiral 20" color port TV, w/stand, 3 mo guar, \$200. X3330.

Free: old surplus electronics equip, space 5" CRT's, solenoids, synchro-transformers, etc. Ed Black, X1408.

Underwood 5 typwrtr, child's crib, lt wt Scandanavian stroller. Helge, X5940.

CDE AR2ZR Rotor w/control, \$25 or best offer; 6-meter, 5-element beam, \$20 or best; Head 320 skis, gd cond, \$70 or best; Reiker buckle boots, 10%, \$30. X4152.

Man's 3-spd bike, \$20; TV works, \$10. Tom Brown, X4719.

Lots, 1 acre, w/125' frontage on Lake Winnepesaukee, \$9500 each, add'l land avail; 2 new mod cottages. Mayo, X6408.

Baby items: carr/strol comb Perego, \$40; playpen, \$18; dressing tbl, \$10; hi-chr, \$12; bouncer/walker, \$7; infant seat, \$3.50; toy bookcase, \$15. X6262.

Sears camping equip: umbrella tent, 9'x9', \$20; gallon jug, \$1.50; 3 air mats, \$5 each. Albert, X5547.

Furn: 2 end tbls & coffee tbl, \$30; 2 lamps, \$5 each; 2 match chrs, \$15 each. Lloyd, X2215.

Walnut den set, 2 chrs, couch, 2 lamps, coffee tbl; studio sofa bed; antique mahog dbl bed w/matt, matching end tbl; 2 reading lamps, best offer. Cathy, X2168 or X2169.

Sears Coldspot refig, 15 cu ft, exc cond, \$50; exc hdwood desk, 60"x35"x29", 9 drawers, chr, \$40; wooden country style K furn, tbl & 4 chrs, \$40. Bekefi, X2550.

Amateur transceiver, Eico 753, w/ACPS & acc; Hitachi 12" B&W TV, still under warranty; stereo-Dual 1212 w/ADC 220E, EV-1144A amp, 2 Scott S-16 spkrs. Jay, X5809.

Danish wing chr w/wool uphst, was \$250 now \$100; mod standing lamp, \$15; tbls, pictures; frames. Gunderson, X6085.

Columbia boys bike, \$25; Kodak Brownie Starmite outfit & Brownie Starfax outfit, \$10 each; child's school desk & chr, \$5. John Palieri, X4095.

Den set, 2 pc, \$20 each. Joyce, X4427.

Nikkormat FT body, exc cond, \$75; GE Flashpack strobe, \$30. Aldrich, X5360.

Frigidaire dishwasher, \$100; metal desk w/formica top, \$45; sofabed, \$35; china cab, \$15; lamps, end tbls, rugs, X3226.

Sectional 2-pc sofa, \$50 or best offer. X7671 Linc.

Aiwa port stereo tape rcdr, was \$110, 2 yrs old, \$25. Lorrie, Dorm X9709.

Above grnd swim pool, 15x24' oversize lwr deck, ladder, slide, vacuum, cvr, filter, test kit, 2 yrs old, was \$1600, now \$700. Bob Brooks, X461 Linc.

Wtrbed, 4x7', UL htr, hickory frame, raising platform, \$100 or best. Lenny, X7576.

Dynaco/Bang & Olufsen stereo tape rcdr, 3/4-trk, 3-spd, transis, semi pro, sound on sound, etc, exc cond, incl 2 spkrs. Karen, 235-7199.

Wedding gown, designer original, long train & veil, never worn, sz 7, best offer. Lynton, X2510.

Washer & gas dryer, \$200. Jerry Wilcox, X2929.

Hand made black leather whip, 12' long; beaver fur gloves. Ahmad, Dorm X0170 or lv msg at Box 211, East Campus.

Nikkormat SLR camera, body only, 1 yr old, \$100. Doug, X7554 Linc.

Man's & woman's 3-spd bicycles, 26" frames. X7401.

Stack loading slide projector, \$30. Carolyn, X6008.

Uppt piano; convert sofa-bed. Jim, X468 Draper 7.

Comb screen/storm door, 2'10"x7', \$20. Hamilton, X7489 Linc.

Johnson outboard motor, 50hp, '60, elec start, comp control, exc operating cond, \$175. Jim, X4240.

Chrysler Air Temp air cond, 14000BTU, 230V, 12 amp, used 1 seas, \$195; 2 studded snow tires, 870x15, on Cntry Squire rims, lk new, \$60. Richard Briggs, X2502.

Dbl bed, desk, maple DR tbl w/2 chrs, lamp. X4455 M&W 10:30-11:30, T&Th, 4:30-5:30.

Silk sari material, \$10/pc. X4424.

Oil can opener spouts, \$1.25 ea. Steve, Dorm X9329.

Trlr, 4x5' wd, directionals, safety chain, bk dr, \$75; 15x48' pool w/pump, ladder, vacuum, safety cvr, lk new, \$175. Vin, X6591.

Dbl matt, clean soft, \$25. Bert, X7795.

Vehicles

'61 Chevy Impala, R&H, gd cond. Mike, X5909.

'64 Comet, 6 cyl, std, 54K, gd eng & tires, poor body. John, X6802.

'64 VW bus, 6K on '66 eng, \$650 or best. X2128.

'64 Econoline camper, exc body, 3K on tires, springs, shocks, king pin & valve jobs, incl stove, sink, water supply, refig, etc, slps 2 adults & 2 chldrn. Xavier, X5915.

'64 T-bird, gd cond, 1 owner, \$250. X2321.

'65 Dodge pick up, 3/4 ton, 6 cyl, ltd slip differential, camper shell, 70K. Ed Walker, X5760.

'65 Mercury Comet wgn, spring sticker, \$375 or best. Call 890-5926 after 5pm.

'65 Ford Galaxie, exc cond, pwr str, auto, roomy, best offer. Alan Fufsef, X4935.

'65 VW bug, w/sunrf, gd htr, new batt, R, snows, \$400. Karen, X164 Linc.

'65 VW sqbk, new clutch, tires, batt, \$350. Tam, X3353.

'66 Chevy Bel Air, 6 cyl, gd cond, \$450. X7195.

'66 VW beetle, 79K, 6K on rebuilt eng, pr snows, R&H, \$650. Call 491-2385.

'66 Honda C95, black & chrome, 150cc, gd cond, \$150. Tony, X4156.

'66 Plymouth Valiant, 2 dr, 6 cyl, gd cond, 2 new snow tires, avail 6/1, \$500. Anders, X1638.

'66 Falcon, gd cond, std, \$275. X5470.

'66 Dodge Dart, std, 4 dr, gd cond. Joel Cherlow, X5598.

'67 Alfas, 2, Duetto & GTV, both exc cond; 4 Michelin tires, 165x15. Andy, X7920.

'67 Mustang hrtdp, V-8 289, 3-spd, std, R&H, new batt, spark coil, points etc, plug wiring, volt reg, rear shocks, tail pipe & muff, runs well, \$800 firm. Call 438-5003.

'68 Volvo 142S 2-dr sedan, od, AM-FM, radials, \$1550; Danish teak dbl bed, spr matt; Ambassador refig w/sep frzr, 3 yrs old, \$75; 2-spd port fan, \$15; Sansui stereo recvr 23w/ch, AM-FM, \$40. X3871 or 6613.

'68 Dodge RT Magnum, 440 eng, 4 new tires, gr w/bl vinyl top, wh int, \$1500. India, X1595.

'68 Triumph Spitfire, 32K, gd cond, living country, any reas offer. Cyrus, X6603.

'68 Ford, 6 psgr wgn, 30K, auto, 4 dr, elec window tailgate, can be seen Wed-Fri, May 17-19, 1-4pm, at Physical Plant Garage (41A), sealed bids required, direct bid to L.W. Pickard, E18-210, bids close Fri, May 19, X1920.

'68 Metro 12' step-up van, auto, exc cond, for campers or business, \$1200. John Leone, X3566.

'68 Fiat 850 sedan, gd cond, must sell, \$600. Steve, Dorm X0907.

'69 Honda CB350, \$325. Jim Wilson, X4514.

'69 Honda 90 Road-trail, exc cond, low mi, \$195 firm. Ginny, X5182.

'69 VW sedan, R, elec defrost, 7 gd tires incl snows, 28K, v gd cond, red w/bl int, \$999 or best. Brad, Dorm X8789.

'69 Alfa Romeo, exc cond, 30K, AM-FM, 5-spd, studded snows, ski rack, green convert, \$2400. X7129.

'70 VW, R&H, snows, low mi, exc cond, \$1395 firm. David, X7677.

'70 Mustang Grande, 4-spd, tach, 30K, \$1750. Eser, X5309.

'70 Corvette Stingray Coupe, 454 cu in, 390 hp (SAE)/4800rpm, a/c, am-fm stereo, 8-tr deck, pwr st & br, leather interior, 14K, \$5000 or best. Shimura, X3161 lv msg.

'70 VW sedan, yellow, rf rack, R, selling to buy VW bus, vy reas. Vikki, X4561.

'71 Cox camper trlr, exc cond, \$625 or best offer, must sell. Andrew, X6705.

'71 BMW R50/5, 500cc, 3700 mil, extras, \$1175 or best. Peter Adler, noon to 8pm at X117 or page at X211, Draper 7.

'71 Datsun 240 Z, 4 spd, mag wheels. X6441.

'71 Honda CL175, low mil, \$500. Kevin Peterson, X5719 Linc.

'71 VW super sedan, sunrf, am-fm, rear defrost, 12K, best offer. Alexander, X467 Linc.

'71 Yamaha 175cc, Enduro Koni shocks, fork kit, many extras, low mi, gd cond, \$450 firm. Dorm X8762.

'71 Chevy Vega wgn, std, 13K, R, \$1750. X3895.

BMW R-50 w/fairing & directional signals, gd cond. John, X247 Bedford.

Cat mini bike, 4hp, front & rear shocks, lk new, new carb & clutch, expanding brakes, \$120. Don, X7328.

Partially built Yamaha TD1, factory rd racer, w/350 Kawasaki eng new eng, never run. Yukio Endo, X345 Draper 7.

Canoe, 17' Grumman, alum, br new, used once. Larry, X415 Linc.

Century inboard speed boat, 16', 175 hp, exc cond, \$1750. Norm, X7350.

Pearson 21' fiberglass bass boat, new Volvo eng, stern drive, marine top, exc cond. Al, X2137.

Tri-hull boat, 14', fiberglass, w/18 hp Evinrude motor, \$400. X2461.

Housing

Allston, 2 BR apt, air cond, ww carpet, off-st pking, nr T, avail 6/1 for sum w/opt, \$250/mo. Call 254-6286.

Arl, 1 BR apt, ww carpet, air cond, mod appliances, nr T, pking, \$185/mo. X2824.

Bcn Hill, lg sunny studio, w/frpl, gd landlord & neighbors, working person pref, \$150. Judy McCann, X6908.

Bk Bay, lg furn BR in 4 BR apt, sum, lg K, 2 B, \$73/mo. David Fischhoff, 262-7622.

Bk Bay, mod studio, Bay St Rd nr Ken Sq, frpl, sublet 6/1-8/31 w/opt, pullman K, newly reno, \$175 inc util. Sara, X5865.

Bk Bay, Comm Ave, lg 1 BR penthse, furn, dish & disp, sublet 6/1-8/31, \$200/mo. X4394.

Bk Bay, Comm Ave nr Mass Ave, space avail in apt for 1 or 2 singles or couples, Master BR w/B, 2 lg BR, lg K, \$100/mo. Jim, X6631.

Bri, Comm Ave, lg, quiet studio apt, sublet 6/1 w/opt, \$145/mo. Bob, X1981.

Brk, nr Coolidge Corner, sum sublet, 8 rm, 4 BR, 1 1/2 B, nr T, furn, pking, \$250/mo; single rms also avail. Call 731-4052.

Brk, Coolidge Corner, sublet w/opt, 6/1, spac 3 BR, 2B, nr T, \$240/mo. Regina, X5700 Linc.

Brk Village, 4 BR apt, sum sublet w/opt, nr T, semi-furn, conv pking, \$266 + 2 mos deposit. Susan, X7958 lv msg.

Camb, sum sublet w/opt, exc loc, own BR in 5 BR apt, lg K, 1 1/2 B, \$75/mo incl ht. X2209.

Camb, nr Cent Sq, sum sublet w/opt, 2 BR apt, \$185/mo. Hans, X1981.

Camb, lg 1 BR apt, newly renov, LR, K, B, nr T, avail 6/1. Laura, X1805.

Camb-Som line, sum sublet, 2 BR, furn, air-cond, 6/1-8/31, \$200/mo. Hunt, X3109.

Camb-Som line, rm avail in 4-man apt, 6 rms, nr Harv, \$75/mo incl util or best. Tim, X4598.

Camb, Harvard St, nr MIT, own BR in 3 BR apt, lg K & LR, avail 5/23. Call 868-4890 evgs.

Camb, nr Cent Sq, 2 BR apt, sum sublet, K, LR, furn, avail 6/5, \$200/mo inc heat. Sulzer, X7116.

Camb, Cent Sq, spac 2 BR apt, lg LR, patio, air cond, exc cond, avail 6/1, \$200/mo. X4989.

Camb, nr Cent Sq, efficiency, mod K, B, sublet 6/1-8/31 w/opt, \$135/mo inc util, furn or unfurn. Call 354-1708.

Camb, nr Fresh Pond, sum sublet, 2 BR apt, furn, hi-fi, etc, \$200/mo inc util. X5114.

Camb, nr Cent Sq, 1 BR in 4 BR apt, nr MIT, sum sublet 6/1 w/opt, \$80/mo. Steve, 868-1275 after 6:30pm.

Camb, apt between Harv & Cent Sq, 2 BR, gd cond, \$150/mo, avail 6/1; for sale: couch & chr, exc cond, \$110. Ken Chasin, X5435 Linc.

Camb, sublet apt w/opt, avail 6/1, 2 BR, LR, K, air cond, dish, mod bldg, 375 Harv St, \$250/mo. Shirai, X5872.

Camb, Harv Sq, sum sublet w/opt, 1 BR apt overlking common, new furn, stove refig, avail 6/1, \$250/mo. X181 Draper 7.

Camb apt, sum sublet, w/opt, 1039 Mass Ave, 2 BR, \$210. Call 661-9563.

Camb apt, sum sublet, w/opt, 3 BR, furn, \$175/mo. Steven, 776-3668.

Camb-Som line, Northgate apt sum sublet w/opt, 2 BR, air cond, dish & disp, on T, off-st pking, \$235/mo. Dave, 661-0857.

Camb, Cent Sq, rm avail in lg furn apt, summer w/opt, dish, \$72.50/mo. Dick, X7140.

Camb, nr Inman Sq, sum sublet, 1 rm, \$85/mo inc linen & util. Laury, X6862.

Camb, Cent Sq, 1 BR apt, newly dec, ww carpet, panelled, furn, nr MIT, Harv, T, \$250 inc util. X6997.

Charlestown, renov townhse, sum sublet, 1 BR apt, 2 BR apt; rent negotiable. Bill Taylor, X332 Draper 7.

Dorchester, sum sublet, 2 rms in Victorian hse w/2 others, share K & B, pking, nr T, quiet, priv, \$110/mo. Emily, X5954.

Hyannis, 3 rm apt, ful equip, sundeck, walk to beach or town, \$550/mo, \$1500/season. Paul, X7803 Linc.

Manhattan, NY, 3 rm apt nr Mad Sq Gdn, avail for sum to single person, \$200/mo. Reich, X693 Linc.

Medford, 50 Walter St, sublet w/opt, 1/2 of 4 rm apt, mod bldg, nr T, \$80/mo (\$115 in Sept). Al, X7001.

Medford Sq, sum sublet w/opt, 2 BR mod lux apt, w-w, dish, air cond, free off-st pking, \$245/mo incl ht. Bob, X5040.

Ntn, Chestnut Hill, 2 fam, brick, 6 rm, LR, DR, 3 BR, 2 B, ww carpet, cab K, D, encl porch, pool, garage, \$340/mo. Carlos Galicia, X7049.

Som, Northgate, 2 BR apt, LR, ww carpet, dish & disp, nr T, \$245/mo, \$5 for pking. Seddik, X2268.

Som, 1 BR apt, mod, disp, pking, K, LR, B, avail 6/1-9/30 w/opt, \$164, no dep. Peggy, X1757.

Woburn, 7 rm duplex apt, 3 BR, 1 1/2 B, family rm w/frpl, fl basement, gd yard, avail 6/1, \$240 unheated. X7155 Linc.

Bel-Watertown line, 5 BR hse, 7/3-8/28, \$450/mo. Amy Sebell, X2102.

Camb, sunny 6 BR hse, lg K, LR, porch, dish, laundry, avail 6/1, sublet w/opt, \$495/mo. Toby, X5526.

Cape Cod, lg year-round split entry ranch, furn, bsmnt, elec heat, 200 yd to beach, secluded, wooded, \$35,500. Richard Hughes, X4274.

Concord Center, 4 BR hse, woods behind, convenient to everything, \$375/mo. Judy Mason, X3148.

Medford, Lawrence Estates, 6 rm brick ranch w/2-car garage, corner lot, exc loc, \$42,500. X2136.

Winch, 5 BR hse, air cond, ful equip, avail 6/12-7/14, \$300. Lewin, X4282.

Chelmsford, waterfront sum home, 3 BR, for sale, \$19,900 firm. Mike, X3907.

Martha's Vineyard, sm cott on Menemsha Pond, nr beach, avail 6/4-11, \$95. Bob, X476 Draper 7.

Me, lakeside hse, fl equip, 5 BR, nr Bethel, avail July & Aug, \$125/wk. X7282.

Southern NH, country cottage, 1 hr from Camb, avail Aug, mthly or seas. X3375.

Truro, 2 BR hse nr beach, frpl, lg deck, avail July &/or Aug. X1876.

Animals

Free, pure-bred, well-trained, b&w cat. M. Cheng, X1858.

Free kittens, 3 ready now, 3 about 6/1, b&w, tiger & bobtail. Henry Brainerd, X2467.

Gerbils, 1F, 2M, 2 cages. Call 247-9364.

Free kittens, playful, affectionate, tigers, b&w. Bob, X7636 Linc.

Bassett pups, AKC, tri-color, champ sire & dam. Rubenstein, X2982 or 2987.

Lost and Found

Found keys, corner Amherst & Ames. Dennis, X1486.

Found: antique pocket watch in 33-419. Pick up in 43-412.

Found: class ring, vic Rockwell. Smith, X6353.

Wanted

Comf, odl overstuffed chr, cheap. Pauline, X6240.

Neat, responsible Fem rmmate for lg 2 BR apt, Camb nr Harv Sq, 6/1-9/1, own BR, \$70. Call 267-2158.

Fem rmmate for 2 BR furn apt, to share w/fem student, between Harv & Cent Sq. Call 876-7160.

Rmmate for lg 2 BR split level apt, Harv St, \$100/mo inc heat & util. John, 876-6904 evgs.

Sm hse w/yd, N or S Shore or suburbs, through Aug '73. X1786.

Person to enrol w/me in Mandarin course for sum. Cindy, X5744.

Elec chair saw, gd cond. Len, X2921.

Rmmate or sum in mod Waltham apt, pool, pking, own BR, nr T, \$100/mc. Peggy, X6337.

Ride from Framingham to MIT & ret, 9am/5pm, share exp. Maida Henderson, X5813.

Damon Runyon books. Mary, X6286.

Old push-type lawnmower, in working order. Dave, X276 Draper.

Daily ride fr MIT area to Linc & ret, reg working hours, wl pay, summer only. John, X4174.

Student helper & babysitter in exch for rm & board & sml salary, acad yr '72-'73. X3145.

Former Boy Scout volunteer, age 18-21, w/climbing exp in White Mtns, to serve as trip leader & ASM for troop sum camp, no salary but expenses. Gove, X3865.

Rmmate, male, for lg 5 BR apt in Brk, avail 6/1, sum only or start 9/1, \$60/mo inc expenses. Danis, 566-5642.

Inexpensive util trlr. X593 Draper 7.

Sml usable lathe, reas price. Leroy Gorton, X2468.

Rmmate, to share 4 BR apt, semi-furn, 67 Dana St, Camb, \$57/mo. Gloria, X5922; Dick, X4170; Lynne, X3767.

Rmmate for 1 BR in 3 BR apt, sum sublet, avail 6/1, LR, den, \$75/mo, 10 min walk to MIT. Al, X4947.

Molecular model kit, wl pay \$3. Ron Dagani, X1857.

Graduation tickets, wl pay \$5 each. Jim, X6260.

Audiovisual supplies for black Bos teenager prog: carousel projectors w/trays, screens, cameras, tape recdrs, etc. X1555.

Pr hockey goalie leg pads, at least 31" length. X2536.

Driver to take car to Calif in June. Info on X6044.

Fem rmmate, lg 2 BR apt, 5 min to Harvard Sq, 25+ pref, avail 6/15. Call 864-1775.

Tennis racket, about \$7. Diane, X7910.

Fem rmmate, 21+, to share Inman Sq apt, 4 BR, \$80/mo. Diana, X6427.

New members for rec formed grp of singers, rehearsing wkly in Bel. Davies, X7852.

Lefty glove for 12-yr-old daughter. Charlie, X5525.

Reliable girl to babysit Wed pms, Brk, 4-5 hrs. Baglioni, X6743.

Miscellaneous

Arch student will paint hse, do repairs, renovations, exp, refs avail, reas rates. Ron, X5364, lv msg.

U of Calif prof wl care for hse in Weston-Linc area this sum in exch for room. Mrs. Webber, X6023.

Wl teach Spanish, cheap. Call 491-7907.

Basketball camp, 8/13-19, boys & girls, 11-18, Regis College in Weston, run by Dave Cowens of Celtics. For info, Barbara, X2430.

Wl do thesis typing, reports, statistical. Jean McBeth, X7966.

Wl do drafting work for thesis & lt typing. Call 776-1553 after 6pm.

Positions Available

The Office of Personnel Relations is seeking individuals from within the Institute to fill the following openings:

Technician A (E-M): Maintenance of electronic equipment associated with controlled low background facility, breath radon and thoron equipment. Troubleshoots nuclear pulse instrumentation. Some fabrication and wiring.

Good to excellent knowledge of transistor pulse circuitry. Good knowledge in use of oscilloscopes and other test instruments. Some knowledge in use of shop machinery. Ability to work with minimum supervision.

Hourly, Ext. 4268

Technical Typist III: Position open in research lab for good typist to work on manuscripts and reports. Responsible for format and punctuation. Requires accuracy and speed in copying material involving foreign languages, scientific and engineering terminology.

Secretary IV: Experienced, responsible person to deal with administrative matters for section of academic department plus secretarial work for small group of professors. Must be able to organize committee meetings, weekly colloquium, catalog information, correspondence and student information as well as handle the daily routine of a busy office. Willing to learn technical typing.

Biweekly, Ext. 4251

Photojournalist: The News Office has an opening for an individual with five or more years experience in media photojournalism to seek out, report on, and place pictorial stories on all aspects of Institute life in mass media for publication. Assignments will also include booklets, catalogues, etc. Dark-room work is required.

Ext. 4278

Samuelson to Address Alumni Day Gathering

Dr. Paul A. Samuelson, Institute professor of economics and 1970 recipient of the Nobel prize in economics, will be among principal speakers Monday, June 5, when more than 3,000 MIT alumni return to campus for the annual Alumni Days program.

The Monday program in Kresge Auditorium is open to all members of the MIT community and their families. Theme of the program will deal with moving toward the year 2000 and the major challenges that face mankind over the next quarter of a century.

Professor Samuelson will speak on the mechanisms of social change. His address, starting at 4:15pm, will be the final one of the day.

The day-long program will begin at 9:15am with a talk by astronaut David R. Scott, commander of the Apollo 15 mission to the moon, who will narrate a film of that flight and discuss the future of space exploration over the coming last quarter of the 20th century. Scott, an alumnus, received both master of science and engineer degrees from MIT in 1962.

The future of commercial aviation will be the subject of an address starting at 10:45am by Secor D. Browne, chairman of the federal Civil Aeronautics Board in

Washington, D.C., and a former MIT professor of air transportation.

The afternoon program, besides the concluding talk by Professor Samuelson, will include Professor Philip Morrison of physics speaking on the nature of the universe at 2:15pm, Professor Jay W. Forrester of the Sloan School of Management discussing world dynamics at 3pm, and Dr. Robert W. Mann, Germeshausen Professor in mechanical engineering, discussing technology and medicine at 3:45pm.

The Alumni Days luncheon will be held in Rockwell Cage where the highlights will include an address by President Jerome B. Wiesner and gift reports from reunion classes.

Alumni Days on Campus will begin at 5pm Sunday with a buffet dinner in the Sala de Puerto Rico. Buses will be provided to take alumni to Boston's Symphony Hall for "Tech Night at the Pops" with Arthur Fiedler conducting members of the Boston Pops Orchestra in a special program for members of the MIT community, their families and their guests.

Alumni Days will conclude with a party in duPont Center starting at 5pm. Alumni Days chairman this year is Marvin Grossman, Class of 1951.

MIT Athletes Honored at Awards Convocation

Seven athletic awards were announced at the Awards Convocation last Thursday, May 11.

Alan F. Dopfel, a management major from Brockton, received the Class of 1948 Award as the outstanding senior athlete. Dopfel is the star pitcher on the baseball team who has broken several records this spring.

Kenneth R. Weisshaar, a senior in chemical engineering from Cincinnati, Ohio, was selected to receive the Cochrane Award as an outstanding inspirational leader. A member of the baseball team, he also received the Harold J. Pettegrove Award for contributions to intramural athletics.

The Eastern College Athletic Conference Merit Medal was presented to Paul E. Mitchell, a senior in architecture from Park Ridge, Illinois. The medal honors athletic and scholastic achievement. Mitchell is a wrestler.

Maria A. Bozzuto, a junior in

aeronautics and astronautics, received the Athletic Association Pewter Bowl for outstanding contributions to women's athletics. Miss Bozzuto is captain of the women's sailing squad.

The Burton R. Anderson, Jr. Award, honoring skill in managing intercollegiate athletics was presented jointly to two students: Stephen J. Goldstein, a senior in chemistry from New York City who manages the varsity fencing and baseball teams; and Jack E. Cater, a senior in electrical engineering from Waldwick, New Jersey, Manager of the varsity pistol team.

David A. Deacon, a freshman from Toronto, Ontario, was chosen for the Varsity Club Award, presented to the outstanding freshman athlete. He is a varsity record holder in the 200-yard backstroke, who improved his time in 11 consecutive swimming meets this year.

ROTC Occupation

(Continued from page 1) 60 to 70 began forcing their way in through windows, fire escapes and through a door being guarded by Campus Patrol officers and school administrators and faculty members. Once in the building, the protesters—estimated at 60 to 70—forced their way to a 50-foot corridor area of the second floor where they sat down. Administration and faculty observers moved among them, urging them to leave.

At about 3pm, however, the group began ejecting observers and set up table barricades at either end of the segment of corridor they controlled. Tables were obtained when they forced open the door to an Army ROTC room. Subsequently, doors were

forced open to three other Army ROTC offices and two Air Force ROTC offices.

MIT administrators gave the occupiers repeated warnings that they would be declared trespassers unless they left. When they did not leave they were told they had been declared trespassers and this declaration was subsequently repeated to them numerous times. They were warned repeatedly that they were subject to both court action and internal disciplinary proceedings.

The group ended the occupation voluntarily and marched out of the building at 11:30am Saturday. Before they departed, the group swept and cleaned the offices. Virtually no damage was done to the rooms or their contents.



Compton Award winners, left to right: kneeling, Robert Dwyer, George Flint, and Mrs. Karl Taylor Compton. Standing: Paula Stone, Charles Mann, John Krzywicki.

—Photos by Margo Foote

Student, Employee Achievement Cited at Annual Awards Convocation

(Continued from page 1)

Alpha Chi Chapter of Alpha Phi Omega, National Service Fraternity: "In generous service to both the Institute and the surrounding community, they helped make MIT a more gracious host and concerned friend to all." The award was accepted by Robert Leo Dwyer, a senior in life sciences, from Brighton, Mass.

President Jerome B. Wiesner presented two James N. Murphy Awards to "employees of the Institute whose spirited contributions to the Institute family have won a place in the hearts of students."

Harry Erich Anderson, who, since 1931, has kept the physics department lecture preparation room, received one of the awards. He was recommended for the award by both students and lecturers in the physics department.

Arthur Richard Schott, chief maintenance man at Baker House, received the other award. He was cited for work going far beyond what his title implies, not only taking care of the physical plant, but also worrying about the students and their needs and comforts.

The William L. Stewart, Jr. Awards are presented annually for outstanding extracurricular activity on the part of a student or organization. Professor Malcolm M. Jones of the Activities Development Board presented five awards to individuals and four to groups. In addition, a special Certificate of Appreciation was presented to Rabbi Herman Pollack, retiring director of the Hillel Foundation, who has been at MIT for 20 years.

Winners of the Stewart Awards were:

Ernest Charles Brogmus, a senior in chemistry from Elmhurst, Illinois, for contributions to Kaleidoscope '71 and the MIT Open House, and for helping settle a serious tax problem for radio station, WTBS.

Lewis Erwin, a junior in mechanical engineering from Etna Green, Indiana, for setting up a do-it-yourself auto repair shop.

Michael David Feirtag, a senior in physical sciences from Elmont, New York, for writing analysis of the occupation of President

Howard Johnson's office in the spring of 1970.

John Daniel Kavazanjian, a senior in chemical engineering from Long Beach, New York, for innovative management of two student groups, the Finance Board, and the Association of Student Activities.

An award was presented to an anonymous individual who has helped make the adjustment of the homosexual an easier one at MIT.

Accepting the award for the



Harry Anderson of physics, left, is congratulated by Dr. Wiesner on receiving a Murphy Award at last week's Convocation.

group who conceived and constructed structures in the lobby of Building 7 was Karen Vogel Wheeler, a graduate student in architecture from Jamaica Plain.

Accepting the award for the MIT Folk Dance Club was Johanna Kevitz, a graduate student in foreign literatures and linguistics from Cambridge.

Accepting the award for the Urban Legal Services Program was Scott Michael Hebert, a senior in urban studies and planning from Brookline.

Accepting the award for the World Peace Lecture Series was Thomas Andrew Hiatt, a graduate student in management from Indianapolis, Indiana.

The Tau Beta Pi Outstanding Freshman Award for "distinguished scholarship, integrity, breadth of interests, adaptability, and a high standard of unselfish activity in the community at large," was presented by Lawrence C. Markel, President of the MIT Chapter of Tau Beta Pi, to Norman Davis Sandler, from

Fairfield, Iowa, for numerous activities including associate editor of *The Tech* and working to reform the criminal law in Boston.

The Frederick Gardiner Fassett, Jr. Award for "spirit, dedication, and service in furthering the ideas of the MIT fraternity brotherhood," was presented by Stuart R. Traver, president of the Interfraternity Conference, to W. Harwell Thrasher, Jr., a senior in management from Cambridge, rush chairman of the MIT fraternity system.

The Everett Moore Baker Award for Outstanding Undergraduate Teaching is usually presented to a young faculty member "in recognition of extraordinary interest and ability in inspiring undergraduate interest in and understanding of academic work." This year, it was presented to a married couple, Suzann Thomas Buckle and Leonard Gould Buckle, two graduate students who are Assistant Directors of the Undergraduate Program of the Department of Urban Studies and Planning. Chancellor Paul E. Gray made the presentation.

Westgate II Open House Is May 20

The Campus Housing Office is sponsoring an open house at Westgate II, the new graduate student residence on West Campus, on Saturday, May 20, from 10am to 5pm.

Three sample apartments will be shown on the third floor—a one-bedroom, a three-bedroom, and a four-bedroom. These are typical of other apartments in the building and will be completely furnished.

Apartments in Westgate II will be leased to students on a 12-month basis beginning September 1. Monthly rent per occupant ranges from \$78 to \$120 and includes all utilities except telephone.

Members of the Housing Office staff will be at the open house to show students around the apartments, and to hand out brochures and applications. For more information, call the Campus Housing Office, Ext. 5148.