September 16, 1981
Volume 26
Number 7

## Faculty to meet this afternoon

A regular meeting of the faculty will be $3: 15 \mathrm{pm}$ in Huntington Hall (Rm 10-250), Items on the agenda include:
-Report of the Committee on Gradu ate School Policy recommending candidates for advanced degrees.
-Report of the Committee on Aca demic Performance recommending can didates for bachelor's degrees.

- A motion to continue on an interim basis arrangements for participation of non-faculty persons in faculty meetings, established in 1969.
-A report and discussion of the pro-
posed Whitehead Institute. (See story at posed Whitehead Institute. (See story at right.)
-A motion to set May 28, 1982 as the date for 1982 Graduation exercises since Monday, May 3
story at right.)
-The meeting will be restricted to faculty members and ex officii members faculty members and ex ofring meme items.
through the first three agenda Thereafter, other members of the commun ity may enter to listen to the discussion


## More swimming hours announced

In response to community interest in Family Swimming at Alumni Pool, the additional hours for family swim for the small pool only.
The small pool will be open Monday, Wednesday, and Friday from $4-6 \mathrm{pm}$ beginning Monday, Sept. 21. Please note pool at the same time. Regular family swim hours for both pools remain the same (Fridays, 7-8pm; Saturdays 12:302 pm .)
Open swimming hours for students and adult members of the MIT Commun ity with athletic cards are: Monday hrough Thursday from $9-11 \mathrm{am}, 12-1 \mathrm{pm}$ and $7-8 \mathrm{pm}$, Tuesday and Thursday only Saturday from 12:30-2pm, and Sunday Saturday from 12:30-2pm, and Sunday rom $1-5 \mathrm{pm}$. This schedule will be in effect until Sunday, Dec. 20. Hours are subject to change because of revised times for intercollegiate and intramur
Children under 13 may not use the large pool except during large pool Famlarge pool except during large pool Famaccompanied in the pool by a parent.

## Hayden to host <br> Libraries' sale

Books will be sold as fast as bargainpriced objets d'art when the MIT Librares open their periodic book sale in Hayden Gallery Tuesday, Sept. 22,10am4 pm .
The one-day only sale offers members of the community a chance to buy new and used books, maps and technical reports in all subject areas at very low prices. Proceeds from the sale are used for the Libraries' materials replacement fund.
The sale presents a fine opportunity for community members to stock their personal libraries with valuable books a affordable prices

## Thomas F. Jones memorial is set

[^0]
## Low reviews Whitehead proposal <br> By ROBERT M. BYERS <br> first opportunity for the full faculty to dis <br> participate with WI in screening and re cruiting scientists for WI, but in the fina

Staff Writer
MIT Provost Francis E. Low, in a letter to the MIT faculty last week reviewing a proposal that MIT enter into a partnershit
with the newly formed Whitehead Institute for Biomedical Research, urged Faculty Members to attend the September faculty meeting this afternoon (Wednesday, Sept. meeting this afternoon (Will ednesday, see
16) where the proposal will be discussed. In the letter, Professor Low said the arrangement would not be without difficulties for MIT, but he and others who have studied it have concluded that the benefits outweigh the problems.
Professor Low first informed the faculty of the possibility of a collaboration with WI in a letter last July. The September faculty meeting ordinarily is limited to approving September degree recipients. Professor Low said the agenda will be expanded to include the WI proposal. The Faculty Councilcomposed of the president, provost, vice presidents, deans, faculty officers and department heads-heard a discussion of the proposal atits September meeting last week,
cuss the proposed partnership. WI, an independent and autonomous scientific laboratory being organized to purbiology, plans to build a $\$ 20$ million multistory research facility on Main St. across from East Garage in Cambridge's Kendall Square Urban Renewal Area. (WI is formulating plans for the building with Boston Properties, authorized developer of the "Cambridge Center" area within the Kendall Square Urban Renewal Project and these plans will be discussed fully with the City of Cambridge, the Cambridge Redevelopment Authority, and other public agencies involved in approving the building proposal.) WI's director-designate is Dr. David Baltimore, American Cancer Society Professor of Microbiology at MIT and recipient of the Nobel Prize in Medicine or Physiology in 1975.

WI's Board of Trustees, chaired by Dr. John Sawhill, former president of New York
University, has proposed that there be a University, has proposed that there be a WI and MIT, including dual appointment of WI scientists to the MIT Faculty. MIT would
cruiting scientists for WI, but in the fina
analysis, MIT would have sole authority analysis, MIT would have sole authority search and review procedures would be ap plied in full force.
Potential difficulties, Professor Low said, include the possibility that there might be competition between MIT and WI for r search support. Also, the fact that the W would choose research directions indepen dent of MIT departments might ultimatel lead to a problem, although this is amelio rated by the fact that the WI director would always be chosen from the MIT Faculty and that MIT would be well represented on the WI Board of Trustees
The most significant difficulty, Professor Low said, is that by entering into the collaboration, the appointees from WI would be paid in full by WI. MIT would thus be establishing professorships for which MIT would
E. Gray have discussed potential difficul ties with faculty in the Department of Biology, with other Faculty members, and with


DuPont Gymnasium was wall-to-wall bodies last week in the annual Registration Day ritual when most of MIT's some 9,000 students

## Faculty officers discuss graduation date

(The following Discussion of the Date of the 1982 Graduation Exercises signed by Felix M. ${ }^{H}$. Villars, chairman of the faculty, Harvey M. Sapolsky, associate chairman of the faculty, and Jack Ruina, secretary of the
faculty, was circulated with the Call to today's faculty, was circulated wi
meeting of the faculty.)

In 1982, the statutory Commencement date would be Monday, May 31. This happens to coincide with Memorial Day, a legal holiday, and requires that an alternative date be considered.
An unusual sequence of events is responsible for the fact that this issue was not brought before the Faculty during the spring term, and that its resolution now involves a probem of more serious concern. These events and the history preceding them are detailed On Fe
On February 20, 1974, the Faculty (upon recommendation by an ad hoc committee chaired by Professor J. Munkres) adopled the current formulation of Faculty Regulation 2.11 regarding graduation exercises. Regula tion 2.11 states: "-The academic year shall fourteen weeks each-Graduation exercises shall be held on the third Monday following the last exercises of the spring term.'
The possibility of a coincidence of the Mon

## deliberation, since the 1976 precedent could

day date so specified with Memorial Day was noticed by the Munkres committee, but no rule for dealing with such an occurrence was
formulated. This situation occurred in fact for the first time in 1976; in that year, Com mencement took place on the preceding Fri day, May 28. There appears to be no record of specific Faculty action endorsing this change, however.
In accordance with Regulation 2.11 (see above), the spring term of the academic calendar for 1981 contained the dates: Regis tration Day, February 2; Memorial Day, May 25; Commencement, June 1. The original ver sion of the academic calendar for 1982, pre pared by the Registrar's office last spring had the following corresponding dates: Re gistration Day, February 1; Memorial Day May 31; Commencement, June 7-leading to a fifteen-week spring term. This error was discovered in June, 1981 , but its rectification would have shifted the statutory Com mencement day to Monday, May 31, 1982 According to Regulation 2.11, no Institute exercises (including graduation exercises could be held on a legal holiday. The Comaddress this issue and proposed Friday, May 28 , as an alternative date; this was viewed as the only date not requiring additional Faculty
be invoked. This position was taken under a sense of urgency generated by the immenent deadline for getting the MIT catalogue into print, and for providing prompt information of the corrected Commencement date to al students expecting to graduate in 1982. The tion, took apked to ratify this proposed solu tion, took up the issue at its June 25 meeting and endorsed it. The May 28 date conse quently is the date for the 1982 Commence In July the Rears in the 1981-82 catalogue In July the Registrar mailed a postcard to tinuing ing seniors (Class of 1982) and con that Mgraduate students informing them date in 1982
In August, 1981, the Commencement Com mittee and the CEP were alerted to the fac that the May 28 date coincided with the Jew ish holiday of Shavuot, and that the disre gard of this fact was upsetting to man members of the MIT Jewish community, and more seriously, to those students (and thei families) whose belief called for observance o this holday, and who by this fact would b prevented fro
In response to the protest, an ad hoc group chaired by Kathryn Lombardi, Executive

## (continued on page 8)

## Sustaining Fellows to hear VP George Bush

Vice President George Bush will be the principal speaker Friday, Oct. 30, at the annual dinner meeting of the MIT Sustaining Fellows.

MIT Sustaining Fellows, now numbering some 530 persons in this country and abroad are donors, both alumni and friends of MIT who have demonstrated significant and sus tained support for the Institute and its pro grams.

Some 400 persons, including spouses, are expectedfor till
t 7:30 expected to arrive prior to the dinne at $7: 30 \mathrm{pm}$ and depart immediately following his address. Aides said other activities or appearances may develop for the vice president's trip to the Boston area, but details are still being arranged
The invitation to the vice president to speak at MIT was extended by Breene M. Kerr, Class of 1951 , chairman and chief executive officer of Kerr Consolidated, Inc., Oklahoma City and chairman of the Sustaining Fellows. Paul E. Gray and Chairman Howard W

Mr. Kerr is a Life Member of the MIT Cor poration, the Institute's governing body, and a past president of the MIT Alumni Associa tion. He is also a member of the Institute's Corporation Development Committee which initiated the Sustaining Fellows program in October of 1979 to give recognition to donor and to provide a mechanism that allow donors to share directly in the activities of the Institute. Pre faculty taining Fellows program


Announcements



## Club Notes

MIT /DL Bridge Club*-ACBL Duplicate
brige, Tues, 6 em, W20-433. Info: Arthur, X8-
1414. Draper
Caribbean Club ${ }^{\text {comoren }}$-Open to MIT.Wellesley
community. For more info call Laverne, X3.

 GAMIT*-Gays at MIT. Everyone invited, gay,
bisexual or otraight. Dro by for some free
refreshments or jost to tolk. Ever Sunt
Greme


 MIT Juggling Club*-meeting every Sun, 2 .
Spm, lobby of Eldg i3, or outside in fron of
Student Center. Beginners and onlookers wel.
 MIT Scuba Club ${ }^{\text {- }}$ - For membership info and
club activities call Mike Hamer, 49P-1284. Outing Club ${ }^{*-}$-Meetings, Mon and Thurs, 5
Gpm, Rm 461,Student Center. Li ike the outdoors?




Table Tennis Club-*-Meets
10pm, T-Club Lounge, DuPont.


Religious Activities
The Chapel is on
Campus Crusade for Christ*-Family
Time-a wekky fellowship including music,

 Group and potluck supper.
info: Bob S Simon, $X 3-1858$.




Prayer Time*-Friday afternoons. 1.2 pm ,
weekly Bibie Class led by Rev. Miriam R Eccles, Tounder and director of the Alpha and Omega
Missionary Society Guuest spearess.music and
refreshments. Rm 20E.207. Weloome! United Christian Fellowship*-Large group
fellowship meting: prayer, singing, sharing bible teaching, Al are welcome to oinin Meets on
Fridy,
Zlainop, Rm
1.233. For information Noon, Bible Study**-Every Wednesday. Rm
3.456., brinin your unch. all welcome. Ralph Bur-
gese Islamic Society*-Every Friday prayers will
be held at 1pm, Kreege Auditorium, Rehearsal

Lincoln Laboratory Noon Bible Studies*-
Tuesdays and Thursday, MTrailer. Contact
Annie Leescard, X262. Morning Bible

 The Church of Christ in Cambridge*--
Christians from MTT Harvard BU
Corship



New Subjects
4.885 Islamic Architecture and Urban

 arbanistic development in the Musimim worla,
and the emetods of analytiaca innuiry into spec
cific buildings and towns. Construction and cific buildings and towns. Construction and
planning techniques; past, present and possible methodologies in this and related fifel
ing application of ar archaoologiec
Instructor: Michael Burgoyne.


Class Changes

4.831: Environmental Art-will not be offered Fall 1981.
4.974: Introductory Moviemaking Work-
shop (Davenport)-schedule change: rec Wed,

Mathematics 18.295: Tensor Celens-tensors, differentia forms and Riemannian geometry with applice
tions in general relativity. Some modern differ ential geometry. Prof. D. Freedman. Class meets in the first semester, AY

Science, Technology, and Society
STS--SO2: MIT and the Problem of New
Learning-This seminar to be taught by Profes. Learning-This seminar to be taught by Profes.
sors Elting Morison and Walter Rosenblith will
be held Tues, $2.4 \mathrm{pm}, \mathrm{Rm}$ 20D-205 and not in Rm $24-112$ as originally announced
Linguistics and Philosophy
24.04: Problems of Philosophy-The class
meets Mon, Wed, and Fri, $2 \mathrm{pm}, \mathrm{Rm} 20 \mathrm{E}-013$.

Student Jobs


UROP




word processing needs assessment and equip-
ment selection, including a list of recommended
vendors. SUITABLE FOR SOME FRESHMEN PAY AVAILABLE. Contact Prof. M. Hammer, NE43-217, X3
$212, \mathrm{X} 3-5845$.

## Institute Office Automation Planning Project-Will help with initial studies of exist ing word processing usage at MIT and with the development of a set of short-term guidelines for word processing needs assessment and equip- ment selection, including a list of recommended vend vendors. SUITABLE FOR SOME FRESHMEN. PAY AVAILABL. Contact Prof. .. Hammer, NE43-217, X3-5840 or Sandor Schoichet. NE43. 212, X35845.

Visual Perception Project-There are certain visual tasks for which human performance
is as good as the limit predicted by the laws of physics. For some tasks, human performance so good that only the most sophisticated
machines could duplicate it, and in some cases, no such machines exist. Although these "hyper"
abilities have been known for some time, there are many that are not understood in terms of the
underlying physiological and physical mecha

## Women row on national crew

## By KEN CERINO

Two members of the MIT women' crew team were selected to the firs Unied States lightweight cre Alexandre '81, of Ossining, N.Y and Katherine Yelick '82, of Des Moines, Iowa, made the team afte competing in a training camp in Minneapolis, Minn.
Their first taste of international competition came in August at the Canadian Henley championships in St. Caterine's, Ontario. Rowing in the national team's second boat Alexandre and Yelick helped thei squad 'n igh second in the open other US boat.
"The lightweight program for women at the national level is jus starting to get off the ground," Doug Clark, the MIT coach, said "Thi was the first time the US had a national women's lightweight squad. Faith and Kathy both did an out standing job and both will participate in the national camp again

In June Alexander and Yelic rowed for the Pioneer V alley Club o Massachusetts at the open nation-
als in San Diego. With Alexandre at
stroke and Yelick at bow, Pioneer Valley won the open lightweight eight race over the Univer
Pennsylvania and Radcliffe
Alexandre was captain of the 1981 MIT women's crew team which won the lightweight varsity eight race at the Eastern Association for Women's Rowing Championships in New Preston, Conn., in May. She also received the MIT Pewter Bowl Award for contributions to women's athle tics. Yelick, meanwhile, is starting her fourth year on the MIT women's crew squad.
In other crew news, MIT's Doug Clark was a member of the coaching staff at the US Women's Heavy weight Training Camp in Newport Beach, Calif., this summer. He coach Festival in Syracuse in July and thentin Syracuse in July weight squad to the Canadian Hen weight squad to the Canadian HenCanada's top two "A" boats. Canada's top two A boats
There will be a meeting for all Wednesday, Sept. 9, at the Pierce Boathouse. The varsity women's squad will have its first practice at $5: 30 \mathrm{pm}$ Wednesday. All women inter ested in rowing should call Coach Doug Clark, x3-6246, for further information.

## Procedures class series planned

Two new eight-week sessions of "Introduction to Administrative Procedures," in which exempt and support starf memberl be offered by th Personnel Office beginning in Octo ber.
More than 1,000 employees have taken the course, which presents representatives of administrative and service departments who out line the services of their offices and explain procedural information. Sub jects and instructors will be.
Accounting-Paul Honiker, Rich ard May, Robert Sullivan, Ruth Walsh
Campus Patrol-Chief James Oli-
Graphic Arts-James Coleman, Al Paone
Housing \& Food Services-George
Office of Sponsored ProgramsJames Grayson, Patricia Greer

Payroll-Frederick Crowley, Joseph Cullinan
Personnel-Virginia Bishop, Ken neth Hewitt, Terri Viohl, Kerry B. Wilson
Physical Plant-Mort Berlan
Purchasing-Mary Anne Petti
The fall programs will begin Monday, Oct. 5, and Friday, Oct. 9.
Departmental supervisors are asked o nominate one or two employees from their area to attend one of the two sessions. Employees who are interested in attending should tell their supervisors.
Course outlines, program schedules and application forms can be obtained from department or laboratory heads or administrative officers. Wanda Osborn, X3-1674, in the Personnel Office, can provide further information. Deadline for nominations is Friday, Sept. 25. Letters will be sent
nisms. Will involve an experimental investiga-
tion of some of these takss. SUITABLE FOR
SOME FRESHMEN. Contact Dr. B. Sakitt, X3-

## Artificial Skin-Will participate in research

Artificial Skin-Will participate in research
project leading to the development and evalua-
tion of materials and devices to be utilized as a skin replacement. Previous lab experience is
neceessary. CREDIT ONLY. Contact Mr. Skra
but, X 3 -2139 or Prof. Yannas, X3-4469.

Artificial Blood Vessels-Project will lead to development of artificial blood vessels. Areas of
interest include process development, protein chemistry, equipment design, etc. Previous lab experhence necessary and experience wit sion electron microscopy is desirable. CREDIT
ONLY. Contact Mr. M. Sylvester, X 3 -2139 or
Prof. Yannas, X3-4469.

Man-Vehicle Lab-Mechanisms of Visual
Information Processing-Will help emplo Information Processing-Will help employ
the most sophisticated technology of eye and head movement measurements to investigate
visual aspects of flight simulators. Some knowl-
edge of PDP-11/34 system and electronics preedge of PDP-11/34 system and electronics pre-
fered. PAY AVAILABLE. Contact Paul Wetzel,
37-155, X3-3752, Prof. Y. Zeevi, $37-147$, X 3 -7509 or
Man-Vehicle Office, X



Chemical Engineering-The following pro-
jects are available: 1) Reactor F-Tests. Determijects are available:: Reactor F-Tests. Determi-
nation of reactor and feed line volumes with a
flow method are needed. Also, f-tests should be how method are needed. Also, f.tests should b
made on reactor to extend previous runs tolowe made on reactor to extend previous runs to lower
flow rates. SUITABLE FOR SOME FRESHMEN. 2) Thermodynamics. Calculations are
needed for equilibrium composition of normal pentane
ducts. Requires having taken 10.14. 3) Tempera ture. Controller. Interfacing between a
microcomputer and a stepping motor is needed. microcomputer and a stepping motor is needed
Familiarity with microcomputers is desirable
Contact Prof. Fred Putnam, 66-457, X3-6489. Clusters and Superclusters-Will help in
numerical study of large-scale clustering of galaxies in space. Will develop and execute pro grams on an interactive mini-computer system
Proficiency in FoRTRAN and interest in astro physics requir
$411, \mathrm{X} 3-3130$.

## NDE Techniques for Advanced Composit

 Aircraft Structures-Desire J. or Sr. withelectromagnetic field or circuit theory back-
ground to assist in development of new NDE
techniques. Work includes computer data acquiechniques. Work includes computer data acqui
sition, digital signal processing, design, execu-
tion, sample fabrication, etc. PAY POSSIBLE
Contact Prof. M. Zahn, N10, X3-4688
Chemical Analysis of Oil Shale Pyrolysi Products-Work involves oil shale pyrolysis
under truly ins-situ conditions and themical
analysis of pyrolysis products. The andlyice be performed are: distillation, The gas chromemato-
graphy, and possiby NMR. Analysis result
vill be used to suggest conditions for further in-situ tests. PA
AVAILALEE. 10 hrs /wk. Contact David Barr
7-006, X7488, or Prof. Cleary, $3-352$ or $3-356$, X3 7.006, X 7488 , or Prof. Clear
2308 , also $1-800$ or X3-2318.


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Manager. Room 5-113, MIT, Cambridge
MA 02139.

## Blackmer named to head political science dept.

Dean Harold J. Hanham of the School of Humanities and Social Science has announced the appoint
ment of Professor Donald L. M ment of Professor Donald L. M. Blackmer as head of the MIT Depart ment of Political Science. The ap ary 15,1982
ssor Blackmer succeeds Pro fessor Alan A. Altshuler, who has been department and who will resume his position as profes sor of political science and of urban studies ProfessorAltshu ler will also deto the Future of the Automobile Program, a multi national research effort that he co directed with Professor Daniel Roos. The Automobile Program is a joint activity of the Center for Transpor International Studies.

Dr. Blackmer, professor of political science, has been associate dean of cial Science since 1973 and and tor of the Program in Science Tech nology and Society since 1977 He
a specialist on communism in Europe and the Soviet Union. Professor Blackmer received all his degrees from Harvard 1952 the sity: the AB in 1952, the AM in 1956 and the PhD in political science in
1967. He was awarded a Sheldon 1967. He was awarded a Shelling Fellowship in 1952-53. Travelling Fellowship in $1952-53$. director of MIT's Center for Interna tional Studies from 1956 to 1961, when he became assistant director He became an assistant professor of political science in 1961, associate professor in 1967 and professor in 1973. He served as executive officer of the Department of Political Science in 1972-73.
Dr. Blackmer has been a research associate at Harvard University's Center for European Studies since 1973 and a member of the Council on Foreign Relations since 1974. He is past chairman and member of the executive committee of the Counci for European Studies, and a forme member of the Planning Group of the Amer

## He is

He is the co-author of three books and author of Unity in Diversity: Itailan Communism and the Com
munist World, published by the MIT Press in 1967
He and his wife, Jean, live in Con cord, Mass. They have three children

## Medical board seeks nominees

The Medical Advisory Board seeks nominations for three positions, one from each of the following areas: sup
The Medical Advisory Board, a presidentially appointed committee, serves as a communications link between the Medical Department and its users. Its objectives are to keep the community informed of services available through the Medical Department and to receive criticisms and suggestions for modifications or additions to services to meet the changing needs of the community. The Board meets during the academic year, usually on the
last Monday of the month from 12 noon to $1: 30 \mathrm{pm}$.
Those interested in being considered as a member of the Medical Advisory Board or anyone who wishes to suggest the name of a good candidate is invited to submit a name, room number, and extension to Constantine B. Sim
Office of the President, Rm 3-209.

Two join staff of Dean's office Jeannotte Gerzon, a former con-
sultant to the City of Cambridge, and Linda J. Vaughan, director o counseling for the Harvard School of Public Health since 1979, hav deen appointed assistant deans for
student affairs. Ms. Gerzon also serves as advisor on preprofessiona education. Announcement of the Shirley McBay, dean for student affairs.
As assistant deans, both will counsel students and will also be ment. As advisor on preprofessiona education, Ms. Gerzon will advis students interested in medicine law, psychology and related fields Ms. Vaughan will provide advice and support to the student-run Night line, to handicapped students and to women students.
Ms. Gerzon received the BA degree in psychology from Boston Univer ing and consulting psychology from Harvard University. She did coun seling at Glenview Mental Hospital in Bristol, England from 1973-74 and social work and psychotherapy for the Kennebec Valley Mental Health Center and the State of Maine Department of Mental Health and Corrections from 1976-77, when she became a child protective worker for the Maine Department of Human Services. While a graduate

## Annual Luce co

## Professor Eugene B. Skolnikofl

 has announced that MIT is eligible persons for the annual Luce Fellows competition.Professor Skolnikoff is director of the Center for International Studies, which administers the program at
MIT. He will name a small commitMIT. He will name a small commitMIT schools, to interview applicants MIT schools, to interview app and make a final selection.
Luce Fellows spend about 10 months in the Far East working in
their professional fields. The purpose of the program, sponsored by offer a select group of young Amerioffer a select group of young Americans anexperience in Asiadesigned
to broaden their professional perceptions of Asia, of America and of


Dean Vaughn Dean Gerzon counselor at Dana Hall School in Wellesley. She became consultant to the City of Cambridge in 1979. Ms. Vaughan holds the AB degree in social science from Harvard Unipsychology from Boston College psychology from Boston College. PhD degree in counseling por the ogy at Boston College. From 1968-69 she was an administrative consultant at the Ithaca Women's Clinic, Ithaca, N.Y., and from 1969-71, was assistant director of the Special Children's Center, also in Ithaca. From 1971-75 she was assistant to the dean of students at Harvard Medical School. She became assistant director of the Graduate Program in Health Policy and Management at the Harvard School of Public Health in 1975, and associate director in 1977-79. During this time she also served as staff psychotherapist t Harvard Health Services
mpetition is open
Fifteen winners are selected from the nominees from 60 universities. MIT has had five winners in the four years it has submitted nominees.
Eligible are seniors, graduate stuEligible are seniors, graduate stu-
dents, faculty members and recent graduates. Persons wishing to be considered for nomination will need to provide-by Oct. 15-an academic transcript, an essay on the reasons he or she wants to spend a year in Asia, a brief statement of career goals, and a local address and phone number
For further details and applications, call or see Professor Skolni-
koff, Rm E38-648, X3140, or Amelia koff, Rm E38-648, X3140, or Amelia
Leiss, CIS assistant director Rm Leiss, CIS assistant director Rm
E38-652, X8064.


President Paul E. Gray presented the honorarium faculty, Dr. Killian, second from right, and Instifor the James R. Killian, Jr. Faculty Achievement tute Professor Ascher M. Shapiro who was chairAward to this year's recipient, Institute Professor . c. Lin at a brief ceremony in the President's fessor Felix LH Villars, left, chairn of man of the selection committee. Professor Lin, who is also professor of applied mathematics, will present one or more Killian Lectures later in the prear.

## Hale named to Ferrari P. Ward chair

## By CHARLES H. BALL

 Staff Writer established at MIT in 1966 through a bequest from Mr. Ward, an inventor, industrial consultant and a In the Ferrari P. Ward Professorship, Dr. Hale succeeds Dr. Morris Halle, who has held the chair since 1976. Professor Halle, a leading scholar in the modern field of linguistics, was recently appointed guistics, was recently appointed
Institute Professor, a rank that MIT reserves for scholars of special distinction. The original holder of the Ward chair, whom Dr. Halle succeeded, was Institute Professor Noam A. Chomsky, whose researc
on the nature of language has revo lutionized linguistic science.
Dr. Hale's appointment was an-
nounced by Dean Harold J. Hannounced by Dean Harold J. Han-
ham of the MIT School of Humanities and Social Science and by Dr Samuel Jay Keyser, head of the Department of Linguistics and Philosophy.

Hale's "remarkable abilities as a linguist reflect his strong commit ment to other cultures, and their need to survive intact." He added that Dr. Hale is "a true hum the best sense of the word."
Among his contributions to the MIT linguistics program, Professor Keyser said, special note should be dents who obtained their doctorates under Professor Hale's guidance "The special needs of these students required extraordinary efforts on the part of the thesis advisor because the program had to be adapted to ground," he said. "Partly as a result of Professor Hale's efforts these students successfully completed the rigorous doctoral program and thus became the first American Indian PhD's in linguistics in the country since the time of the great anthropo logical linguist, Franz Boas, who also trained a number of
Indian language scholars.
Born in Evanston, Ill., in 1934, Dr Hale received the BA in anthropol ogy from the University of Arizona in 1955, the MA from the University of Indiana at Bloomington in 1956
and the PhD from the University and the PhD from the University of
Indiana in 1958. In 1956-57, Dr Hale also held a fellowship in anthro pology at the University of New
From 1961 to 1964 Dr. Hale was an assistant professor of anthropol ogy and linguistics at the Univer sity of Illinois. From 1964 to 1966 h was an associate professor of anthropology at the University of Arizona He came to MIT in 1967 as an
was made a full professor in 1972. Dr. Hale has carried out extensive
field work and has researched five field work and has researched five American Indian languages and several Australian Aboriginal
tongues. His research involves the tongues. His research involves the principles of linguistics against the principles of linguistics against the
evidence presented by Native American and Australian Aboriginal languages. His work is at the fore front of linguistic research in these languages and its implications for a theory of universal gramma
Another important area of Dr. Hale's work is on the potential role of theoretical linguistics in the bi lingual education programs of Amer ican Indians. Dr. Hale believes that the strong interest of American
Indians in studying their native languages could become a means to introduce the scientific study of a language and its accompanying logical systems and methodologies ican schools. Linguistics might then ican schools. Linguistics might then become a vehicle for teaching the methods and alt in American Indian inquiry not only in American Indian generally.
Professor Hale is the author or co-
author of many professional articles. In keeping with his commitment to the idea that local languages should be allowed to occupy a position of dignity and power in loca educational systems, he is writing a book designed to make use of Amer ican Indian languages in
Dr. Hale is married to Sara Whit aker Hale. They have four children
and make their home in Lexington.

## Silk appointed associate dean atSloan


ing a leave of absence he served as a at the European Institute for Ad. vanced Studies in Management in
Brussels, Belgium. He gained th Brassels, Belgium. He gained the
rank of professor at MIT in 1974 and soon after was appointed chairman of the Doctoral Program Committee Professor Silk did his undergrad. uate work at the University of West-
ern Ontario (AB, 1959) and his graduate work at Northwestern University (MBA, 1960 and $\mathrm{PhD}, 1968$ )
He held faculty He held faculty appointments at the
University of California, Los Angeles and the University of Chicago be-
fore coming to MIT.
Professor Silk's research has focused on issues related to advertis ing testing and expenditure policy for copy development. His contribu-
tions to the marketing field include tions to the marketing field include the development in 1978 with Pro-
fessor Glen L. Urban of ASSES fessor Glen L. Urban of ASSES
SOR, which blends the use of mod els, measurements and statistical uation of new products. He has pubuation of new products. He has pub-
lished widely and is a member of the editorial boards of the Journal of Marketing and Marketing Science. ant posi

## tion. He has worked long and self

 lessly on behalf of the School for many years. Dean Siegel went tributions as chairmansor Silk's con tributions as charman of the School'sdoctoral program, and his role of doctoral program, and his role of
professor of management science professor of management science
and coordinator of the marketing and coordinator of the marketing
group, where he has directed and group, where he has directed and
produced fundamental and applied reserach to improve the effective ness of marketing decisions.
Professor Silk, an internationally renowed specialist in marketing and management science, joined the 1968 as an associate professor. Dur-

Historian to open T\&C seminars

## Professor William H.-McNeill,

 cago, will give the first of a fall series of lectures on Technology, Agri culture and Food, sponsored by the Technology and Culture Seminar a MIT, at $4: 30 \mathrm{pm}$, Thursday, Sept. 17in Rm 9-150. Professor McNeill will discuss technology, agriculture and food before 1750 . The lecture is free followed by an informal supper and discussion

Other speakers in the series will be Institute Professor Nevin S. Scrim shaw, director of the Clinical Re
search Center at MIT; William Hinsearch Center at MIT; William Hin
ton, author of books on China; Professor Frederick Ausubel of Har vard University, and Professor Wil liam Friedland of the University of California.

## THE <br> INSTITUTE <br> CALENDAR <br> X3-3270

September 16 through
September 27
 programs).

## Events of Special Interest




 The MIT Libraries Book Sale"-Tuee. Sept 22, Hayden Gallery, IOam-tpm

## Seminars and Lectures

Wednesday, September 16
Atomic Enerry: Worldwide Out ook and Proppeta, Including the French
Prooramo-Prot Andre Giruad Paris


 r. 46 pm. . Rm 1.1 .90 .

On the Ceneral Equation of Motion of Quantum Thermodynamics and the Distinction Between Quantal and Nonquantal Uncertainties*-Gian Paolo
Beretta, doctoral theais presentation, dept. of mechanical engineering. 4pm, Miller Synthesis and Reactivity of Early Transition Metal Complexes Containin
Multiple Metal to Carbon, Nitrogen, or Oxygen Bonds Muitiple Metal to Carbon, Nitrogen, or Oxygen Bonds
graduate student, MIT. Inorganic Chemistry Seminar Series, $4 \mathrm{pm}, \mathrm{Rm} 4: 370$. Coffe
and donuts served at $3: 30 \mathrm{pm}$, Moore Room 6.321. "The War Without Winners"*-film and discussion on the economic and social
impact of the arms race. MIT Disarmament Study Group. 5:15pm, Rm 9150 .

Thursday, September 17
A Postdoc in Europe During the Great Physics Revolution*-1. I. Rabi,
professor emeritus, physic, Columbia University Physics Colloquium. $4 \mathrm{pm} . \mathrm{Rm}$
$26-100$ Refreshments served at $3: 30 \mathrm{pm}$. Rm 26 -100.
Design of Cable-Stayed Bridges*-Prof. Lindner, Technizal University of
Berlin. West Germany. Civil Enkineering Seminar, 4-6pm. Rm 1-190.
Linear Programming and Combinatorial Topology of Sphere Systems*-
Prof. Jack Edmonds, mathematics. University of Waterloo, Ontario, Canada Operations Re
after seminar.
Thursday Afternoon Cheney Room Program**-Sept 17, The Evolution o
Women's Roles: What the Past Can Tell Us. Prof. Jean Jackson, anthro polgy, MIT. Refreshments 4.4:30pm, talk and discussion, 4:30-6pm; Sept 24,
Women Against Violence Against Women. Slide show and discussion, 4.6 pm .

Technology, Agriculture and Food before $1750^{\circ}-$ Prof. William $\mathbf{H}, \mathrm{McNeill}$,
historian, University of Chicago. Technology and Culture Seminar, $4: 3 \mathrm{pm}, \mathrm{Rm}$ 9150. An informal supper and discussion with the speaker will follow the leeture. International Organization and Sustainable Development** Brian John-
son, senior fellow. International Institute for Environment and Development.
DUSP and Center for International Studies Seminar, $5: 30 \mathrm{pm}$, Rm 10-4R5.

The Russian Heroine: Where To Find Her and Where Not To ${ }^{\circ}$-Barbara
Heldt Monter, associate profesaor. Slavonic Studies, University of British Colum. Heldt Monter, associate professor. Slavonic Studies, University of British Col
bia. MIT Foreikn languages and Literatures Seminar. xpm . Rm 14E.304.

## Friday, September 18

Studies of Toluene Combustion by Molecular Beam Mass Spectrometry**-
Phillip Westmoreland, kraduate student, MIT. Department of ('hemical EnkiSuperconductivity of Graphic Intercalation Compounds**-Y. Iky, Institute
for Solid State Physics, University of Tokyo. Center for Materials Science and Conditionals and Similarities Amongst Worlds*-Prof. Jonathan Bennett. "Let's Stop Equivocating"* - discussion on being Jewish in America with Chaim Kline, 9pm. Ashdown Dining Room. Preceded by Shabbath services at
$5: 30 \mathrm{pm}$ (Hillel basement) and dinner at $7: 15 \mathrm{pm}$. For dinner reservations: Hillel,
25322982 .

ool to 18th century in exhibition of 18th centruy scientific instruments graphics and rare books in MITs Compton Gallery ( Rm 0-150). Both were made by Benjamin Martin of London or use at Harvard University. One is a small model powered by a hand crank, the other a more massive, brass model has a clockwork mechanism to move the planets powered by weights. The large orrery is surrounded by an ecliptic circle engraved with the calendar and the signs of the zodiac. Orreries were named for Robert Boyle, 4th Eari of Orrery, and a great nephew of earliest planetariums.

Sunday, September 20

Biblical Big Shots: Models of Leadershipo-Ernest Rabinowicz, mechanical
enkineering. MIT. MIT Hillel Foundation Seminar 1 LPm. Hillel $10 x$ and Bakel
Brunch. Mezzanine Lounge. Student Center. $\$ 2$ for Hillel members, $\$ 2.50$ for non.

Monday, September 21
The Asymptotic Number of Unit Interval Graphs**- Dr. Phil Hanlon, dept.
mathematics. MIT. Applied Mathematics Colloquium, 4 pm. Rm $2: 379$
Tuesday, September 22

The Combinatorics of the Euler Characteristic*-Prof, Gian-Carlo Rot
mathematics, MIT. Mathematics Department Seminar Randomness and Complexity*-Charles Bennett, IRM T.J.
Center. Yorktown Heights. N.Y. VISI Seminar, $4 \mathrm{pm}, \mathrm{Rm} 9.150$.
Ultrafast Rates and Phase Transitions by Vibrational Spectroscopy*-
Prof. Herbert Strauss, dept. of chemistry. University of California (Berkeley Prof. Herbert Strauss, dept. of chemistry. University of California ‘Be
Physical Chemistry Seminar. $4 \mathrm{pm}, \mathrm{Rm}+370$. Coffee at $3: 45 \mathrm{pm}, \mathrm{Rm} 6 ; 32 \mathrm{I}$.

Stalling Pressure Rise Capability of Axial Compressor Stages"-C.C
Koch, aircraftenkinedivision. General Electric Company. Gas Turbine and Plasm Koch, aircraft enkine division. General Electric Company. Gas Turbine and
Dynamics Laboratory Seminar. $415 \mathrm{pm}, \mathrm{Rm} 311-161$. Refreshments at 4 pm .

Recent Developments in Astrometry*-Prof. William van Altena, Yale Uni
versity. Astrophysics Colloquium, $4: 15 \mathrm{pm} . \mathrm{Rm} 37.252$ (Marlar L Lunnge). Coffe versity. Astrophysics Colloquium, 4:15pm. Rm 37-252 (Marlar Lounge). Coffe
served at 3.45 pm .

Molecular Mechanisms in Site-Specific Recombination: The Lamd System*-Dr. Arthur Landy, biological and medical science. Brown Universit,
Providence. RI. Biology Colloquium, $4: 30 \mathrm{pm}, \mathrm{Rm} 6$-120. Coffee served at 4 pm, vestib. ule of fifth floor, bldg. 56.
As You Like If*-T. Postlewait, assistant professor. MIT. The Plays of Shake
Wednesday, September 23
The Resilience of the Air Transportation System to External Pressures*-
Hon. Walter M. Mcleeish, administrator. Canadian Air Trankportation Adminis.
Detailed Electronic Structural Studies of Blue Copper Prote ins and Spee-
tral Analogso-Kevin W. Penfield, kraduate student. MIT. Inorgnic Chemitr tral Analogs ${ }^{\circ}-$ Kevin W. Penfield, kraduate student. MIT. Inorkanic Chemistry
Seminar Series, 4 pm, Rm $4: 370$. Coffee and donuts served at $3: 30 \mathrm{~km}$, Moore Rove

The Politics of Health Care: Will There Be Health Under Reagan?*-Dr Wayne Lencer, pediatrician, former orkan
Socialist Group Seminar, $7: 30 \mathrm{pm}, \mathrm{Km}+15$.

Thursday, September 24
10- Seconds After the Big Bang*-Prof. Alan Guth, physics, MIT. Physic
Colloquium, $4 \mathrm{pm}, \mathrm{Rm} 26-100$. Homeostatic. Control: A Summary*-Prof. Fred C. Schweppe, associat
director, E.P.S.E.L., MIT. . poprations Research Center Seminar, $4 \mathrm{pm}, \mathrm{Rm} 24-121$

Friday, September 25
Char Combustion in an Atomospheric Fluid Iced Bed*-Cathryn Sundback
Reliability of Over Pressure Protection Systems: A Markov Analysis*-Dr.
P. L. Thibaut Brian, Air Products \& (hemicals. Chemical Enkineering Seminar.
P. L. Thibaut Brian, Air Products \& Chemicals. Chemical Engineering Semina

## Community Meetings

## MIT Faculty Club**-The (lub is Noon-2pm: Dinner hours: $\mathrm{F}: 30-\mathrm{spm}$.

Student Art Association Art Classes**-Register in Student Center. Rm 429 , kraphy. silk flower makink. calligraphy, Chinese brush painting staphy. color phot parent-toddler art
Alcohol Support Group** Personal Assistance Program. Medical Dept. A se
help support kroup for persons concerned about the effects of excessive alcohol un
$\qquad$
President Gray's Open Office Hours**-Tues, Sept 29. Oct $13,27, \mathrm{Rm} 33.2 \mathrm{za}$
$4-6 \mathrm{gm}$. An opportunity to share ideas or thoughts on insues with the president.

## Low reviews Whitehead proposal <br> (continued from page 1) <br> mental biology. Although this is an area of <br> In his Faculty letter, Professor Low also

members of the Corporation and its Executive Committee. It is their conclusion that the benefits outweigh the potential problems of going ahead with the arrangemen he said.
Among potential advantages for MIT Professor Low said, is the fact that the col laboration with WI-and the additional faculty it would bring-would provide Min with the means of enriching its teaching and research programs and expanding into new areas. A number of MIT graduate stuactivities at WI with full funding from WI Professor Low said.
Moreover, MIT research programs in the biological areas that interface with WI woul be strengthened, Professor Low said. W has offered to provide MIT with a $\$ 7.5 \mathrm{mil}$ lion endowment fund, the earnings from which would be applied to departments centers and laboratories which have con tinuing interactions with WI. At the outset this would apply specifically to the Depart ment of Biology, but Professor Low said it is possible that in the future other depart ments might discover areas of commo also be included.
There is a particular long term advantage for MIT, according to Professor Low. WI will direct its research efforts toward molecular approaches to problems of develop-
research where MIT is already strong, Proessor Low said, its expansion now should help Mrong and current through the 1990 rem Professor Low said he and others Professor Low said he and others in the the independence of WI from MIT raises the question of whether WI goals and procequestion of whether dures will be comparable and compatible to hose of MIT. MIT, he said, will make every effort to achieve compatibility in such areas as salaries, benefits, affirmative action, sabbatical leave, percent of time devoted to and the nature of involvement in outside activities, and tenure commitments.
WI, for its part, Professor Low said, wants o be linked to MIT because MIT's tradition of excellence will help guarantee that WI will be an institution of quality research from the outset. The relationship would provide WI scientists with the same dual teaching and research focus that characterzes most of American science.
Professor Low said WI will be independent of commercial interests. WI will have patent rights to the results of its own esearch, as MIT does, but no company will have a pre-arranged preferential right to WI icenses. Since the distance between commercial and basic research activities in rology has becice sort, Wl, like MIT, may face complicated decisions about com WI rapresentatives , Prognize this wossibil ty and have indicated that WI will be guided by the indicated that WI will be contribute openly to scientific knowledge and that all other goals must be subservient nd that other
described the organization, background and financing of WI
WI was established by Edwin (Jack) Whitehead, founder and former president of Technicon, Inc., a major supplier of automated equipment for clinical laboratory equipment. Technicon was merged with Revlon, Inc., several years ago and Mr. Whitehead, who was Technicon's principal tockholder, determined to establish a biomedical research institute. Professor Low said that since Mr. Whitehead's wealth came from advances in medical research Mr. Whitehead felt it was important that some of the wealth be applied to still further advances.
Professor Low noted WI has agreed to appoint three representatives from MIT to serve on its Board of Trustees and former President Jerome B. Wiesner, Dean Abra ham Siegel of the MIT Management School and Dr. W. Gerald Austen, chief of surgical services at the Massachusetts General Hos pital and a member of the MIT Corporation, have agreed to serve in that capacity. There are three other canc to fill
 boratively by Wr and MIT. Dr. Donald Frederickson, former director of the Nationa Institutes of Health, has agreed to be one of these trustees. WI also has agreed that the ranks and that the director also shall serv on the Board.
Mr. Whitehead himself is not a member o he WI board. Besides Dr. Sawhill, the board includes three of Mr. Whitehead's children John Whitehead, a Technicon executive Peter Whitehead, an architect, and Susan

Whitehead, a law student; Dr. Herman Sokol president of Bristol-Myers and a former echnicon Board member; Dr. Leonard Western University and inventor of the Technicon Auto Analyzer; Dr. Lewis Thom as, chancellor of the Memorial Sloan-Ketter ing Cancer Center, and Dr. Baltimore
Professor Low said Mr. Whitehead plan o fund WI through three mechanisms. He will provide the initial sum-expected to be $\$ 20$ million-to construct and equip the $W$ building. Second, he has established an annuity trust to provide WI with $\$ 5$ million of annual income. Third, Mr. Whitehead is arranging that on or before his death there will be an endowment established for WI o at least $\$ 100$ million to supplant the annuity trust.
Professor Low said all terns will be se down in documents before definitive agree ments with MIT are executed. Once the docu ments are signed, funds for WI will b by any outside group or individual, includ by any outside group
According to Professor Low, Mr. White head several years ago explored establish ment of a biomedical research institute in association with Duke University At tha time, Professor Low said, Mr. Whitehead was considering a more medically-oriented institute, significantly different than what is being proposed for a Cambridge site nea MIT. The Duke effort was not successfu and, Professor Low said, Howard W. John son, chairman of the MIT Corporation, has discussed with Duke President Terry San ford the reasons for that. Professor Low sai he and Mr. Johnson are convinced that there was nothing in the Duke experienc that would provide a reason for not procee ing with a possible MIT affiliation

ottery Sale**-(reated by members of the MIT Student Art Association. Wed.
ept 16 . 10am -spm . 1obby 10 .
Vives' Group**-Wed, Sept 16 . The first meeting this year will be a "kettink
cquainted" meetink. durink which newcomers will be welcomed by older members
 udent (Center, 35 pm. Rabysitting is provided in Rm 473 fourth fr), Student
enter. Wed. Sept $2 \mathbb{2}$."Shopping and Where to Get Information You Need." Student .
hursday Afternoon Cheney Room Program"*-Sept 17, The Evolution o
omen's Roles: What the Past Can Tell Um. Prof Jean Ilackson, anthtropolgy

eight Control Program**-A ten week program for members of the MIT cum
 eetinnd prexerexistration for the Sept 29 meetink call Health Information and Educa
on and GAMIT"-Gays at MIT. Group discussion, "Coming Out", Sun, Sept 20, 5pm American Association of Retired Persons (MIT Chapter)ose-Fall outing, at, Sept 19 . Places are still availabie for tip to Essex, Conn. Lo net ery esteam
ind Riverboat. For information and reservations call Jim Maclary, X 3 -2745. and Riverboat. For information and reservations call Jim Maclary, X.3-2745,
Chapter meeting. Tues, Sept 22 . Wert 1 ounge. Student Center. $5: 15$, dinner, $6: 15$
business meeting. $6: 30$, auilling (art form using paper strips), demonstration
 Morothy Donahue; 7 , inste
Maclary. Rm E19.67. X.
Chapter 28933, A.A.R.P.
 dvisor and Associate Dean for Student Affairs will speekik on the spirit of MIT Rand
opportunities for MIT community members at the Institute. Representatives from pportunities for MIT community members at the Institute. Representatives from
arious departments (personnel, athletics, medical, child care, arts, libraries, an rampus patrol) will be present to meet you and answer

## Movies

The War Without Winners*-a film exploring the economic and social impact of
the arms race. Discussion follows. MIT Disarmament Study Group. Wed, Sept 16 ,
Lina Braake (Lina Braake and the Interest of the Bank).- Foreign Lan
Lism, Rm ruages and Literatures
V.30pm, $\mathrm{Rm} 10-250$. Free.
Eulerian and Lagrangian Description Flow Visualization*-Fluid Mechan
cs Films, Thurs, Sept 17, 4-5pm, Rm 3 -270. Free. Coal Miner's Daughtere- LSC Movie. Fri, Sept $18.7 \& 10 \mathrm{pm}$. Rm 26-100. Admis.
ion: $\$ 1 \mathbf{w} /$ MIT or Wellesley ID. The Big Sleep ${ }^{*-}-1$ SC Cla
$1 \mathrm{w} /$ MIT or Wellesley ID.
Itered States*-LSC Movie. Sat, Sept 19, 7pm \& 9:30pm, Rm 26-100. Admission
Prisoner of Zenda ${ }^{\circ \circ-\text { SCC Midnite Movie. Sat. Sept } 19 \text {, Sala de Puerto Rico, }}$
Student Center. Bring a blanket and sit on the floor. Free. MIT Wellesley II)
The Front **-LSC Movie. Sun. Sept $20,6: 30 \mathrm{pm}$ \& 9pm, Rm 26-100, Admission: $\$ 1$
w/ MIT or Wellesley ID.
Der Starke Ferdinand (Strongman Ferdinand)*-Foreign Languages and
Literatures German Film Series (with English subtitles). Mon, Sept $21,7: 30 \mathrm{pm}, \mathrm{Rm}$ Literatures G
$10-250$. Free.
Sous Les Toits De Paris (French version with English subtitles)"-
Humanities Film Series, Wed, Sept 23, 7pm, Rm 14E.304. Free

Aguirre The
66-16א. Free.
ressure Fields and Fluid Acceleration*-Fluid Mechanics Films, Thurs, Sept
Krawatten fur Olympia (Ties for the Olympicss). - Foreign Languages and
Literatures German Film Series (with English subtities). Thurs. Sept 24, 7:30pm, Rm 1.teratures
i(-250. Free.

Ihirr**-ISC Classic Series. Fri, Sept $25,7 \mathrm{pm}$, Rm 10-250. Admission: $\$ 1 \mathrm{w}$ MIT or
Wellesley ID.
Cess**-ISC Movie. Fri. Sept 25, 6:30 pm \& 10pm, Kresge. Admission: $\mathbf{\$ 1} \mathbf{w}$ MIT or
Cellesley ID.
The Elephant Man "0-1SC Movie. Sat, Sept 26, 7pm \& 10pm. Kresge. Admission.
W/ MIT or Wellesley ID.
-
The Eiger Sanction**-SCC Midnite Movie. Sat. Sept 26, Sala de Puerto Rico.
ring a blanket and sit on the floor. Free. MIT/Wellesley ID required.
The Mouse that Roared ${ }^{\circ *-1 S C}$ Movie. Sun. Sept $27,6: 30 \mathrm{pm} \& 9 \mathrm{pm}$. Rm $26-100$
dmission: $\$ 1$ w MIT or Wellesley ID.

## Library Tours

## Introduction to the MIT Libraries and the Institute Library Catalog 148- $200^{\circ}{ }^{\circ}-$ Meet at the kiosk in the Humanities Library Reading Room, $14 \mathrm{~A}-2 \mathrm{zon}$. Wed. Sept 16.1 lam. Tours also available on request. Inquire at the Humanities Reference

 Desk or contact Kathy Powers, X:3:5673. Dewey Library E53-100*-Tours available on requent. Contact Arlyne.Jackson.

Humanities Library 14 S -200**-Self-direted tour available in Humanities
Library Reading Rorom. Tours also available on requext. Inquire at the Humanities Library Reading R Rorm. Tourn alko available on reque
Reference Iesk, or contact Kathy Powers. X:35673.
Rotch Library 7 7-238**- Wed Sept 16. 2pm. Tours open to all library users. Tours
also available on request. For further information. contact Barbara Reed. X.3.70ㅊ.2.


Von Hippel Reading Roóm 13-2137**-Tours available on request. For further
information, contact Polly Baslock, X3-6840.
Branches and Reading Rooms
Aeronautics and Astronautics Library 33-316"-Tours available on request.
For information. contact Kate Herzog. X.-5666. Chemistry Readin
Dornchner. X:3|-1 91 .

Lindgren Library $54-2000^{* *}$-Wed, Sept $16,3: 30 \mathrm{pm}$. For further information, con
Lact dean Eaaklesfield, X: 256679 .
Microreproduction Laboratory $14-0551^{\text {® }}$-For tour information. contact Peter
Scott, X: $: 5666 \mathrm{~T}$.
Music Library 14E-109**-For tour information, contact Linda Solow, X:3:56is6. Rotch Visual Collections $\mathbf{7 - 3 0 4}$-*-Tours included as part of the Rotch Library

tours. Tours also available on request. For further information. contact Merrill | tours. Tours also |
| :--- |
| Smith . X: F (09k. |


Von Hippel Reading Room 13-2137**T
information. contact Polly Raxlock. X:36*40.

## Wellesley Events

Youth and Ethical Conflict ${ }^{\circ}$-Robert Coles, aocial psychiatrist. Harvard Uni
versity. Wed, Sept $16,7: 30 \mathrm{pm}$. Alumnae Hall, Wellesley College. Wellesley. Free and versity. Wed, Sept 1
open to the public.

In Honor of President Keohane*-Opening of an exhibition of the finest pain inks and sculpture from the Wellesley College Museum Collection. This exhibition includes works by Vasari. Amikoni, Angelica Kauffmann, Piamontini, Cezanne,
Leger. Matisse. Copley and Durand and celebrates the inauguration of Wellesley,
eleventh president. Nannerl Keohane. Fri, Sept 18 , Mon Sat 1 Iam to 5 . 5 pm . Jewett Arts Center. On view through January 19 s 2 . Poetry reading by Nicki Giovanni*-Thurs, Sept 24. Apm. Wellesley Auditorium
Sponsored by Harambee House.

## Sports

 Football vs Roger Williams, Sept 19 , Ipm; Women's Tennis vs Emmanue
Sept 19. 11am: Women's Sailing. Man-Labs Trophy. Sept 19.20), $9: 31$ am.

Freshmen are encouraged to attend departmental lectures and seminars.
Even when these are highly technical they provide students one means 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
$*=0$ pen to the MIT
$\cdots$ Open to mer

## Johnson \& Johnson to Support Medical Research



Registration opens for Sky Art events

Registration for Sky Art Conference ' 81 to be held at MIT Friday, Sept. 25-Tuesday, Sept. 29, is now
Registration materials and information on the conference are available at the MIT Center for Advanced Visual Studies (Wll). Registration for the full conference is $\$ 200$ for the public, $\$ 95$ for students, artists and senior citizens, and $\$ 75$ for MIT students, staff and employees. For a single day, costs are $\$ 55$ to the pubic, $\$ 25$ to students, artists and senior munity Students in the Master of Science in Visual Studies Program Science in Visual Studies Program In will be admitted free
In addition, CAVS needs volunteers for pre-conference work. Anyadministrative and technical details should call Portia Smith at x3-2804.
dent of Johnson \& Johnson, and Dr. Paul E. Gray, president of MIT. "The MIT research projects will help move medicine and health care ahead," Mr. Clare said. "The Johnson \& Johnson Fellowship Program helps MIT meet some of its basic research goals and advances Johnon \& Johnson's chief interest in ogy in the medical field.'
"Wy in the medical field on \& Johne the support of Johnon \& Johnson in funding basic research at the institute, "Corporate support is essential in strengthening the bonds between higher education and the industrial higher education and the industrial
community." First recipients of Johnson \& Weaver, Dan Adam and Monty

## Weight control program returns

A ten-week weight control program for members of the MIT community will be offered by the Medical Department beginning Tuesday, October 13.
An introductory meeting will be held at noon Tuesday, Sept. 29, in the third floor conference room of the Infirmary (W5) to acquaint prospective participants with the program and help them decide if they want to enroll
The program is designed to promote gradual weight loss and to ing behaviors and ways they can

Krieger, all of the Harvard-MIT Div-
ision of Health Sciences and Technology, and Gregory Pattel, Stephen Chung and Jeffrey Braman of the Department of Biology. Among the research projects funded, one will focus on cholesterol buildup in the body. Another will develop non-surgical methods of obtaining pH and blood gas mea-
surements which could lead to surements which could lead to mprovements in monitoring critical care patients. A third objective is development of more effective identaneous ventricular fibrillation-a aneous ventricular fibrillation-a heart problem which causes some ry annually and is the principal cause of death in men under the age cause
changed to facilitate permanent weight control.
The sessions will be led by Connie Roberts and Debbie Nakasako, registered dieticians at Brigham and Women's Hospital.
The fee for the program is $\$ 50$ for students and members of the MIT Health Plan and $\$ 70$ for other members of the community.
For information and pre-registration for the introductory meeting on formation and Education Salth Information and Education Service at
$\times 3-1316$.


Time is running short for students to sign up in Hayden Gallery for graphics from MIT's Student Art Loan Program. Picking out three favorites from the student art loan collections can be a tough decision. Students looking over the collection of more than 200 prints from the Catherine N. Stratton Collection of Graphic Art and the List Student Loan Program register their three choic es of framed prints or posters by well known artists. The works will be distributed after a random drawing of sign-up cards on Friday, Sept. 18. The winners will keep one work of their choice in their rooms for the academic year.
-Photo by Calvin Campbell

## CLASSIFIED <br> ADS <br> X3-3270

ads are limited to one per person per issue
nd may not be repeated in successive and may not be repeated in successive
issues. All ads must be accompanied by full
name and Institute extension. Persons ho have no extensions or who wish to list only home telephones may submit ads by
coming in person to the Tech Talk office, $\mathrm{Rm} 5-113$, and presenting Institute identior mailed to $\mathrm{Rm} 5-113$. Deadline is noon Fri-

## For Sale

Moving sale: Sat, Sept 19,9-4pm, 159 Palfrey St Watertown
misc items.
(nexpensive clothing, infants' clothing, K ware bridge, 10 mmiture , yard sapm, Sate, Sept 19. Laura, X3.
6752.
 deak, \$25; bedeide tbl, s10; lamp. $\$ 9$. Jonatha Heataser for oil burner, heat controlled blower
for 8 atack, uned 1 yr, new $\$ 200$, selling $\$ 100$. Ed Free! Maytag washing machine,
nda replacement. Call 926 1792.

Single bed $w /$ wooden fr
best offer. Call X $\mathbf{X}-6513$
Chrome \& glass coffee tbl, $\$ 35$; comf, cushioned
maple chr, $\$ 25$. Call $665-6236$. Radio controlled boat $w / 2$ channel tr
$\$ 250$ or beat offer. Howard $\mathbf{X} 3.5239$.

Loft: platform $6^{\prime} \mathrm{H}, 77^{1 / 1} \times \mathrm{K}^{8} ; 8^{\prime} \times 33^{\prime \prime} \xi^{\prime}$ desk $\& 14^{\prime}$ of
shivs below; overall $8^{\prime} \times 8^{\prime} \times 8^{\prime}$. Primed, ready to paint in color of your choice, also, $24^{*} 10 \mathrm{spp}$
racing bike in disrepair. Beat offer on ea. Lyle.

## Queen az firm mattre \$45. Elaine X 3 . 6239 .

A tires Delta, S7814 on GM rims, virtually new
\$100; batt, 12 mo old, on 48 mo warranty. Angelo
VW Bug rear bumper, new. in orig wrapping,
$\$ 20 ; 1 / 4^{\prime \prime}$ elec drill, $1-\mathrm{spd}$, $\$ 10$. Stuart X 5.6645 .
 $4 \times 5$ Polaroid back mdl $\times 5$
twice, 575 . Gisela, $\mathrm{X}: 37432$.
16 mm cartridge rotary carousel storage stand.
holds 480 reels. Call X 3.1844 . Cleveland trombone, exc. cond, used $3 \mathrm{mo}, \$ 250$
or beat offer. Call $328-4420$ after 6 pm . Eight pe DR set. vy ad cond, must sell, $\$ 275$
Joyce, X3.5052. Frye boots, laced \& pr casual shoes, sz 81/2, barely
used, $\$ 45 /$ both. Eileen, X. 37505. '79 13' Boston Whaler harpoon day sailer, exc
cond, w/trailer, $\$ 3,300$, negot. Call $864-2372,6$ -
9 9pm.

Airline ticket to Chicago. s100: Seattle. 3150; kd
Delco AM car radio, $\$ 20$ or best offer. Ton
X 5420 , Lincoln. 14 fiberglass outboard, comp equipped w/ 40 hp
Evinude motor \& Holaclaw trailer. $\$ 1.000$.
Georud Oriental rus, $12 \times 8$ : 2 fancy biz chrs: playpen; full
$3 z$ mattress \& other small items. Call X3-5726 or sz mattree
566.1593

Man's 3.-spd bike, mech sound, kd transp. 315.
Tony, 267 . 4958 .
 bike, 10 -spd, $21 /{ }^{\prime \prime \prime}$ Irame. 110 , bio feedback
device, $\$ 10$. Coleman, 1 burner camp stove, $\$ 10$.
Mark, X.32621 or 489.3358 after 5 pm .

74 Mercury Cougar. $\$ 1,300$ : sm deak, chr $\& \%$
bkshelves, $\$ 15 ;$ crib, $\$ 20 ;$ RCA color TV, $\$ 175$; bsw TV. $\$ 50$; elec fan, $\$ 30$, dinette set
s80; baby car seat, $\$ 15$. Call $7.39-1642$.
Trailer hitch for '74.76 Ford Pinto, Granada Comet, Maverick, pass, or sw.. like nw in orig
box $w /$ instructions, $\$ 25 ;$ Pioneer GX 4040 stereo

radio $\& T 100$ door spkrss, ike new, $\$ 75$. David. | radio |
| :--- |
| $\times 3.3905$ |

 drwe dresser, 340; 4 drwr filing cabinet. 815 . Cal
$924-6859$ or $354-1140$.
Screenhse, Sears larkest. vy kd cond, $\$ 175$;
sturdy mathing ppadded tub chrs. wht vinyl
 Dы-bed, exc cond, incl frame, 550 . Anne X 3 :3195 Pr poly glass mnted snow tires, H78.14. Rd cond,
366,1 nw G 78.14 mnted. recap tire. $\$ 25$. Linda
749.0892. Cello $1 /$ size. pd playink co
case. s 350 . Call X $\mathrm{X} \cdot 2 \cdot 216$.

Two almost nw Delta XP78 4 ply tires, G78.14
mtd on Chev rims, $\$ 30$ pr or $\$ 20$ / ea . Gordon,
X 3.3491 . Banjo w/case, exc cond, $\mathbf{3 6 0}$. Alan X7483, Lin-
coln or 358.7615 . One mo. old superfirm Simmons Beautyrest.
queen az, mattreess \& springs, $\$ 550$; dark brown

Cello, student model $w$ bow \& felt-lined canvas
case, $\$ 5550$. Frank X8.1476, Draper or $275-66: 32$.
Westinghse port dsh wshr, like new, \$175; 4
upper $K$ eabinets, best offer. K exhaust hood
BIC 960 turntbl, minus cartridge, $\$ 35$. Paul, X:3Japanese made 10 spd M bike.
work, $\$ 65$. Michael, X $\mathrm{X}-55356$.
Frigidaire refrig. FD-13T62, 975 , GE washing mach, nds maintenance, free. Phil X X $32944, \mathrm{X} 3$ -
7452 or $328-7884$ eves.


System for immediate sale. Technics SB6000A apkrs 100 W. Onkyo SA6 amplifier $60 w /$ ch, Ger-
rard turntbl GT $25, \$ 550$. Zahir, X5-9984 or X5. 747. Dorm
 Mod Danish DR set $w / 4$ chrs: full sz bed
$w /$ bkcase hdbd: 2 mirrors suitable for dressers; black \& pink wrought iron K set w/4 chrs. Beat
offer. Tony X7657, Lincoln.

Wilson tennis raquet, ${ }^{4 / 2 / \text {, wood, gut strings. }}$
metal press \& cover, $\$ 18$. Call $472 \cdot 1.134$.
Med. light touring 10-spd 23" Raleigh "Phillips" frame, gd components, exc cond, $\mathbf{3 1}$ R0 firm. Dan.

Elec dryer, hardly used s110; new $200^{\prime \prime}$ Puritron
SS range hood, still in box, sson: $K$ set, wood tone SS range hood, still in box, sion: K set, wood tone

formica top $w /$ leaf \& 4 chrs. Call $X$ X.3. 729 or | formica |
| :--- |
| $8933-3377$. |

Martin mdl 0.18 guitar (1963), w/ hardshell case Stereo phono AM/FM, works well, tubes, $\mathbf{\$ 1 5}$
Harry, X3-1637. JVC A. $\mathrm{XA}_{4}$ intergrated amplifier $60 \mathrm{w} / \mathrm{ch} \mathbf{3 2 2 5}$; (latest version) spkrs, $\$ 600 / \mathrm{pr}$. Boon, X 3 . 7274 o
$494 . \times 641$ even

Pure wool Mohawk rug. dusty rose beige.
$233^{2} \times 12$, formerly $w w$ for 2 rms. fair cond. pad
incl. oris 3750 , make offer white Corning incl. orik $\$ 750$. make offer. white Corning
ceramic cook top, 4 units. under 2 yrs. orig $\$ 420$,
beat offer. Call $\$ 65,3495$ before Apm or $\mathrm{X} \$ 3449$. best offer.
Draper.

Magnavox mahor console AM/FM stereo \&
record player, $\$ 50$ : Ariens lown-vac attachment. record player, $\$ 50$; Ariens lawn-vac attachmen
fits most power units, $\$ 75$. Call $\$ 62.5904$.
Moving sale, am OA welding tanks \& carrier
375; brass \& klass fire screen, s70. elec hedke trimmer. $\$ 20$ o $u$-drive it wood splitter. $\$ 20$. Hank Selmer saxophone. Call 332.7152 after 6 pm .
 Baby Snusli. hardly used. also live pine trees, up
to ${ }^{6}$ tall. you dix them up, 8.50 f. Haj or Eike.

 Seven jalousie windows, $42^{\prime \prime} \times 57^{\prime \prime \prime}$, best offer:
Coldspot refrig. old but runs well. best offer.
Jack. XK.16:36. Draper.
 Deluxe ed scrabble. crossword game. exc. cond.
$\$ 17$ or best offer. Beverly. X. 5.7262 . Dorm. Twin sz mattress $6^{\prime \prime}$ foam, new s40. Rolf, $X$ :
97.35, Dorm.

HP4I CV calculator \& card reader. 4 application packs. 2 solution books, collectio
$\$ 300$. Oldrich. $X \$: 3578$. Draper.

Household items: 14 cu ft Sears Coldspot refrig,
$\mathbf{3 1 5 0}$ negot: Tappan gas range. $\$ 100$ : Sears ka space heater. $\$ 100$ : vac cleaner. desk chr, $23^{\prime \prime}$
b\&w console TV. 2 wood chrs, more. Claudio.
X 3 -6000 days.

Toaster $\$ 5$; wa plastic thl $\$ 2:$ full lenkth mirror.
$\$ 3$ : airplane clothes bag. $\$ 5 ;$ wdn jewelry box, $\$ 4$.






 bed complete. wht vinyl hdbrd, mahos foothrd
$\$ \times 5$. ('all X:3-1316.

Vehicles



 GN Plymouth sta wkn, runs well. nw muffler \&
tail pipe, fall sticker, $\$ 350$. Jack, N61 -0141 . 69 Plymouth Fury III. auto, a c. p p, p, b, nw
carb, just tuned, 5450 . Merle. $1 \times 3$ - 202 , Bates.

7o Opel Kadett. Californian car, no rust, stick
OO Ford I.TID convert, kd enk. kd tires, body fair,
high miles, AM FM radio, askink $\$ \$ 95$ or beat offer. Bob $\mathbf{X} *: 30362$. Draper.
 71 Impala, \$9K, runs gd, every part new, no ruas.
 $2194,511 \mathrm{pm}$ or XX-1:326, Draper

71 Toyota Corona, AM FM, gd running cond
some rust, minor dents. 8750 or hest offer. Call x59670, Dorm or X 3.6 F 991 . Ram. 71 VW Bus, kd cond, rbl
31:200. Bertrand. X:35957.

74 Peugeot, "THE" Peureot. 2-dr sedan. best
 74 Audi 100.1S, 4 dr auto, a c, $72 \mathrm{~K}, \mathbf{8 1 , 7 6 1}$ or
beat offer. Kathy. 647.7344 or 492.16652 eves.

 75 Pontiac Catalina, 4-dr. a e. col. exc cond,
\$2.000) or best offer, boy's 10 asp, blue Ramar exc. cond. 19", \$100. Call $4 \times 9: 30: 63$ between

76 MG Midget, bright red convertable, new short block $w$ kuarantee, kd mi, exc cond, kre
fun car. Call $322-7777$ eves or wkends.

7 F Subaru Brat. 4 whl drv, low mi, cap. AM FM stereo cassette $w$ rear Jens spkrs, many
extras, top cond, $\$ 3.500$. Call $275-6,3 \times$.
79 Honda Civic, 4 spd, front whldrive, AM FM



\%o Renault le Car. 14 K , yellow, AM FM stereo.
rear window defrost. tinted windows. $\$ 4.2000$.

## Housing

 water, pking \& garage, grad students pref, no

Arlington Hts, home rental, Jan 1, '82-Aug 33,


Bedford Center, furn, antique colonial (1830) hee for rent, $3 \mathrm{BR}, \mathbf{2}^{1 / 2} \mathrm{~B}$, 4 fp. fully insulated, familiee
preferred, $\mathbf{8 7 5 0} / \mathrm{mo}$. Call $775-2707$ eves. Belmont. furn basement room, $10 \times 18{ }^{\prime}$, non
smoker., pring. very quiet, coffee privilege.
$\$ 43 /$ wk. Call $484-6833$. Billerica, Wyman hilly area, embankment
ranch, brickfront, $\mathrm{D}, \mathrm{K}$, lge LR, FR, 3 BR, gar ranch, brickfront, D, K, Ige LR, FR, 3 BR, gar-
age, beaut Ige corner lot, high 70 's. Joseph
X5308, Lincoln or $275-1242$.
Cambridge, large, quiet BR avail 3 -5 days/week or 1 week/month, Brattle Huron area, three
foor apt in Victorian house, useof apt, including kitchen, laundry privileges, ideal for commuting
or visiting scholar or researcher, $\$ 200-5250 / \mathrm{mo}$ or visising sech
Call 3 3-8067.
Medford, Wellington section, $7 \% 7$ duplex, exc Line, $\$ 87,900$. Bill, 332.3706 after 6 Fm or Jean

Roommates
To shr 2 BR apt nr Tufts w/ one F\& two cats; nr
T. pking avail. $\$ 230 /$ mo plus heat. non-smoker pref. Trish, X3-8540.
F to shr hse in Randolph, lots of land, peaceful
neighborhood, $\$ 200 / \mathrm{mo}+$ util. Ann, X3-5155.
Rm in private home, non-smoking, quiet, consid
erate working person pref, $\$ 250 / \mathrm{mo}$ incl util. erate working person pref, $\$ 250 / \mathrm{mo}$ incl util,
escurity deposit \& ref req. Call $296-8387$ after
6 pm. Young couple wants rmmate to shr 3 BR hse
$\$ 250$ incl util. Joan X $\$$-1811. Draper or $729-2328$

## Carpool

Nd ride to Wilmington starting Sept 28 ,
nights $w \mathrm{k}$. 5 pm , will pay. Borsuk, X3-4878.
Riders wanted to \& from Brookline, 95. Helen
X. 3 - 2710 .
Riders from Mass Ave, Arlington to MIT. 95pm.
Sung, X.3.5686.
Reserved vanpool seats avail, Framingham
Marlboro area, arrive MIT $8: 30$, depart 5 pm

## Animals

$\&$ folk-rock music, bexinners \& advanced stu-
dents accepted, songs of $J$. Taylor. G. Lightfoot, dents accepted, songs of J. Taylor. G. Likhtfoot,
Dylan, etc. Individual \& kroup rates. Chris, X3. Dylan, etc. Individual \& kroup
7646 or $729-4216$ before 10 pm .
Will type anything except technical. Pat X -
Will do housekeeping by the day or com bination
of housekeeping and babysitting. Call $387.57 \times 4$. Mother of three will care for children in my
home. located in Medford off Mystic Valley
Pkwy nr Medford Se. Call -
Professional typing theses, manuacripts.
resumea, legal, etc. IRM Self. Correcting Select.
Professional typing theses, manuschpt
resumes, legal, etc. IBM Self.Correcting Seler
ric II, fast \& acrurate

The Office of Facilities Management Systeme
offers the following MIT excese property for
transer
 Exchange is open Monday. Wednesday, and Fr

The following case numbers are available for
inspection at the Equipment Exchange, $\times 3$. ${ }^{56} 11$. n766, Vacuum system w/vacuum chamber

Case n771, two vacuum tube voltmeters by Genrad, type 726 A counter, digital frequency by
Hickock Electric, model DP150; three HPelectric motor by Wagner, model 2-25; vacuum pump,
oilless by Centrac., model 93970; Pyranol capaci tor by GE, model MV FF.2; gear reducer by Boston
Gear, model TAW73; oeilloscope wh plug in by
Tektronix, model 585 ; plate transformer by American Transformer., model W; $\mathbf{W}$, twin visi
Ameorder by Sanborn, model 60.1300 , the above Case n772, nine four drawer file cabinets by
Steelcase, cond qood. Case 4774, eleven wooden desks, three desk
chairs, two file cabinets, repairs required. Case \#775, teletype terminal by Teletype Corp.
model $33 T V$, repairs required.

Case 1767 , available for inspection by contact-
ing D. Pfeiffer, $\mathrm{Rm} 54-1323, \mathrm{X} 3.3285$; Loci- 2 couning by Wank, model 2AD, operable.
Case \#776, available for inspection by contact-
ing Dr. R.L. Pober. Rm 12-0.36, X3.6472; drying oven, repairs reevuired; carbon tube furrace by
oreney, requires a controller and power supply; power supply cabinet, repairs required.

Case, 4777, available for inspection by contact-
ing Prof. P. Ieehey, Rm $5-018$, X3-3337; calidyne shaker, model AI74, with control panel., model
231 and power amplifier, model A23\%, repairs The following item is for sale by sealed bid only. referencink case u778, Send bid to Earl Fuller,
Property Administrator, Room E19451 by 4 p Property Administrator, Room E19 4.4.1. by 4 pm
EST. October 5, 1981. The item is available for The equipment is presenty in stonake in Bldg
NW 30 Case 777 , flat bed platter by Gerbe model VP600, equipment is fifteen years old and
requires repair.

## Miscellaneous

Guitar lessons! learn to play your favorite folk

[^1]
## Administrative and <br> Academic Staff <br> Technical Writer, Information Processing Services Operations, to help prepare documen- tation for users of the CMS TROLL, OS/ VS1 <br>  position may also entail programming, teach- ing, consulting. and the editing of a bimonthly newsletter. Candidates should have a bachelor's degree or an equivalent combination of education and expereience. strong writing skills, and some knowledge of computing. Program- ming experience is desirable. A160

Sponsored Research Staff
Research Associate, Center for Transporta-
tion Studies, to organize, coordinate, and partic
tion Studies, to organize, coordinate, and partic-
ipate in policy research and comparative analy.
sis as part of a multi- year, multi-million dollar
program exploring the future of the automobile. sis as part of a multi-year, multi-million dollar
program exploring the future of the automobile.
The comparative research involves liaisonation Thes with research. teams in Japan, France,
Germany. England and Sweden. In addition,
Ghis individual will organize yearly policy forums
the this individual will organize eyearly policy forums
involving leaders of industry. government and
labor, which will mean interacting with policy forum participants on a contentinuing wasisis. Theses
activities require supervising a small group of support staff responsible for project administra-
tion and organization. Candidates must have
an MS/MBA. PhD, with quantitative/policy an MS/MBA, PhD, with quantitative/policy
orientation or equivalent skills sobtained through
substantial experience. A substantial experience. A minimum of 2 years
experience in systems analysis or research
management positions (involving multi-disciplin.
ary policy oriented research) are needed Some management positions (involving multi-disciplin
ary policy oriented resarch are neede. Some
knowledge of auto industry desirable. R606

## Programmer/Analyst, Plasma Fusion Cen- ter. to work with the Alcator VAX $11 / 78 \%$ \& PDP-11 in the Confinement Experiments Div.

 PDP-11 in the Confinement Experiments Div.ision. The work will include applications and
systems programming under VAX VMM
RSX-11M designing and writing applications RSX-11M, designing and writing applications
programs for data acquisition and analysis,
writing system support and utilizing system
features and procedures Will also assist with features and procedures. Will also assist with
troubleshooting and maintenance of system
hardware and software, as well as working with hardware and software, as well as working with
system users. Candidates must have BS in app-
lied science, computer science, or mathematics,
along with att east 2 years experience with DEC along with at least 2 years experience with DEC
(RSX and or VMS.) macro assemblers and For-
tran, and a background in numerical analysis.
An understanding of laboratory An understanding of laboratory data acyuisi-
tion environments is essential also, as well as
good organizational and communication skills.
R605
Technical Assistant. Biology, to assist with
studies of protein and nucleic acid structures studies of protein and nucleic acid structures
and their interaction. Position involves raising
antibodies in different animals, radioimmuno-
assy and antibody purifiction and charecter

## POSITIONS AVAILABLE

It is Institute policy not to discrimi-
nate against individuals on the basis nate against individuals on the basis tion rel color, sex, sexual orientaal or ethnic origin in the administration of its programs and activities.
This list includes all nonacademic jobs currently available on the MIT campus,
Duplicate lists are posted on the Women's Kiosk in Building 7, outside the offices of the Special Assistants (10-215, 10-211) an Information on openings at Lincoln Laboratory (Lexington, MA) is available in the Personnel
Persons who are NOT MIT employees should call th
sion 3-4251.
Employees at the Institute should continue to contact their Personnel Officers toapply
for positions for which they feel they for posit
qualify.

$\begin{array}{lr}\text { Pat Williams } &$|  3-1594  |
| :--- |
|  Susan Lester  |
| $3-1593$ |$\quad 3-1270\end{array}$

Sally Hansen
Vera Ballard Kathleen Rick
$\begin{array}{ll}\text { Dick Higham } & 3-4278 \\ \text { Anne Whitman } & 3-6510\end{array}$ Ann Perkins ${ }_{3-6513}^{3-6511}$ race, color, sex, sexual orienta-
ss Cash for a '81-'82 Sloan School pking sticker.

Parking space for storing car, prefer suburbs nr
Ride needed from Union Sq, Somerville to Wel-
leasley, arriving before 10am, leaving after 5 pm .

| Used computer paper \& tab cards, stop throwing away valuable materials, contact me \& help put a student through MIT. Kyle 492-8678. | should call the Personnel Office on extension 3-4251. |  |
| :---: | :---: | :---: |
| Storm windows in reasonable cond, any size. Jim, X3-2180. | Employees at the Institute should continue to contact their Personnel Officers to apply for positions for which they feel they qualify. |  |
| Extension ladder, home insulation, tall bookcases, lead letterpress type. Len, 623-7739. |  |  |
|  | Pat Williams | 3-1594 |
|  | Susan Lester |  |
| String players needed in Arligton Philharmonic Orch. Wed, 7:30-9:30pm, Unitarian Church in Arlington Center (Bus Rte 77). Bring stand; BU Celebrity Series subscriber whocan order tickets for 1 performance. Marilyn, X5724, Lincoln or 6480969. | Appointments: |  |
|  | Virginia Bish |  |
|  | Richard Cerrato | 3-4266 |
|  | Ken Hewitt | 3-4267 |
|  | Appointment | -42 |
| B\&W drawings and sketches for fantasy art book, sword \& sorcery theme, pays copies and royalties, all material submitted considered. Rich, X3-6857. | Sally Hansen |  |
|  | Vera Ballard | 3-4277 |
|  | Kathleen Rick | 3-4269 |
|  | Appointments: Kate Young | 3-4274 |
| Surplus Property | Dick Higha | 3-4278 |
|  | Anne Whitman | 3-6510 |
|  |  | 3-6511 |
|  | Appointments: Ter | 65 |

$\begin{array}{ll}\text { Virginia Bishop } & 3-1591 \\ \text { Richard Cerrato } & 3-4266 \\ \text { Ken Hewitt } & 3-4267 \\ \text { Appointments: Marsha Gens } & 3-4268\end{array}$
$\begin{array}{ll}\text { Virginia Bishop } & 3-1591 \\ \text { Richard Cerrato } & 3-4266 \\ \text { Ken Hewitt } & 3-4267 \\ \text { Appointments: Marsha Gens } & 3-4268\end{array}$

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है
 requires repairs.

Five adorable kittens free to ad home. Donna
643.3621 .


## Faculty officers discuss graduation date

## continued from page 1 )

Assistant to the President, met on August 14
with Rabbi Shevitz to see what might be done. On August 20 the Commencement Committee met, deliberated, and concluded not to request reconsideration of the May 28 date. This position was reported to the Chairman of the Faculty. The Commencement Committee was
persuaded to hold a further meeting in which persuaded to hold a further meeting in which
students directly affected would have a chance to state their concerns. This hearing took place on September 8, with the Chairman of the Faculty present by invitation. After three
hours of deliberation, a motion was introhours of deliberation, a motion was intro-
duced to propose moving the date to Tuesday, June 1; this motion was defeated, but by a narrow margin.
The CEP, it its regular meeting on Sep-
tember 10, took cognizance of these developtember 10, took cognizance of these developments. The conclusion emerged that given the time constraints, and the seriousness of the issues raised, the question should be placed on
Meeting
Blue Cross visit
Marianne Ferguson of Blue Cross Blue Shield will be at MIT Wednes day, Sept. 30, 12-2pm to confer with
employees who have questions about employees who have questions about
their BC-BS Master Medical Plan. Retired employees covered by BC BS Medex III are also welcome to Benefits Office Conference Room (E19-434). Call Leslie Patton
4271, to make an appointment.

It is evident that the issue, at least as far as the 1982 date is concerned, demands speedy resolution. This resolution need not prejudice any future action the Faculty may want to take to resolve similar issues in the long
range. It is in this spirit that the Officers of range. It is in this spirit that the Officers of
the Faculty introduce the following motion: It is moved that Faculty Regulation 2.11 be temporarily amended for the purpose of set ting the date for the 1982 Graduation Exercises as May 28, 198
The issues have been debated in and out of committee at some length, and arguments for and against the May 28 date, and for and Thursday, May 27, or Tuesday, June 1, have Thursday, May 27, or Tuesday, June 1, have
been made. Both Thursday, May 27, and Tuesday, June 1, present some logistical problems:
a) The Thursday, May 27 date does not give the Registrar and the CAP sufficient time to complete the degree lists. Final exam period is
Monday, May 17, to Thursday, May 20 , and Monday, May 17, to Thursday, May 20 , and
connot be advanced by one day. Thus, May 27

## is excluded.

b) Tuesday, June 1, is technically feasible at some cost: The site of the ceremony in Killian Court would have to be set up on Friday and police coverage assured for three days. Unforseen logistical problems could not be
rectified unless extra Physical Plant staff rectified unless extra Physical Plant staff
and outside vendors were retained over the and outside vendors were retained over the
holiday. Tuesday, June 1 , thus remains a holiday. Tuesday, June 1, thus re
technically feasible alternative date.
Arguments for and against the May 28 date have raised issues of principle, such as:
a) Those who favor retaining the a) Those who favor retaining the May 28 tributed withat it has been printed in and dis from this date will upset plans already made and may prevent a number of students from and may prevent a number of students from that a change of date at this point will be construed as an action taken by MIT for reasons inconsistent with the Institute's position as a secular institution. It is also feared that such an action will constitute a precedent such an action will constitute a precedent ience that may be imposed the inconven numbers of other people, by a change of date We believe that the question of settling the without gerating unease or frustration in without generating unease or frustration in we deeply regret that this cannot be avoided It may well be that the Faculty would want to address at a later meeting the question of a long-range solution that would prevent recur rence of similar problems
With regard to the immediate problem at hand, the Officers of the Faculty consider adherence to the set May 28 date as the wiser proposed action, on balance, and offer the

## NDSL Notice

Students who have received National Direct Student Loans are urged to go to the Bur-
sar's Office-Student Loans Rm E19-225, to sign their loan notes before October 1. Loans signed by September 30 carry a four per cent interest rate. Beginning October 1, the rate will go up to five per cent.


## Alumni officers conference is coming <br> By ROBERT C. Di IORIO <br> AOC. He is working with an alumn

Staff Writer
More than 500 alumni and their guests are expected to be at MI'T September $25-26$ for the annual Alumni Officers Conference.
Alumni Association President
Angus N. MacDonald '46 says the
Angus N. MacDonald ' 46 says the conference will be a working one-
but there will be the traditional time but there will be the traditional time
out for awards and for a look at MIT out for
today.

## today.

Events include special Friday
workshops workshops for alumni involved in fund-raising activities, Alumni Rela tions Activities and for those wh are members of the Educationa Council; the annual Robert H. Rich
ards Alumni Lecture and the annua ards Alumni Lecture and the annua business meeting of the Alumn
Association, both on Saturday morn ing, and a special Saturday after ing, and a special Saturday after
noon forum by MIT faculty members on biomedical technology in Hun tington Hall.
Dr. Paul E. Gray '54, president of MIT, will speak at a banquet and reception that begins at 6 pm Friday in duPont Gymnasium
The Robert H. Richards Alumn Lecturer will be Dr. James B. Res wick, ME '43, special assistant to
the director of the National Institute the director of the National Institute
of Handicapped Research in Wash of Handicapped Research in Wash
ington, D.C. Dr. Reswick's speech ington, D.C. Dr. Reswick's speech
"Contributions of Technology to the "Contributions of Technology to the in $\mathrm{Rm} 10-250$. It will follow the Alumni Association's business meet ing at 9:45am, also in $\mathrm{Rm} 10-250$ Mr. MacDonald will report on the Association Activities and Joe F Moore '52, chairman of the Alumn Fund Board, will report on
activities at the meeting.
The Richards Lecture
The Richards Lecture honors the nounder of the 73,000 -member Alum from the ranks of those with clos from the ranks of those with clos
ties to MIT who are active in publi ties to MIT who are active in public
service. An underlying theme of the service. An underlying theme of the MIT alumni to speak out on publi issues.
On Friday, a daylong program is scheduled at Endicott House for alumni involved in fund-raising programs. Joseph S. Collins, director of the Alumni Fund, will conduct the program
The Alumni Relations Workshop, held in the Bush Room, will address the question of further educatio opportunities at MIT for Alumni.

Also on Friday, the Education Council will offer several workshop for educational counselors. The work shops, all to be held in the Studen Center, will be headed by Admis sions Director Peter H. Richardson, Educational Council Director Bonny Kellerman, and Len Gallagher, rector of student financial aid
The Educational Council also will show the film "MIT Today" to its members at $3: 30 \mathrm{pm}$

## Sala de Puerto Rico

A special forum on biomedical technology will begin at $2: 30 \mathrm{pm}$
Saturday. Dr. Francis E. Low, MIT Saturday. Dr. Francis E. Low, Mi
provost, will welcome the alumni to the forum which will be moderated the forum which will be moderated
by Dr. Kenneth A. Smith, associate by Dr. Kenneth A. Smith, associat speak at the forum and their subjects are:

## Dr. Clark K. Colton, C.H.'69, Bayer

 Professor of Chemical Engineering"ew Therapies with Artificial De
Dr. Phillip A. Sharp, professor of biology, "Genes and the Synthesis of Their Products
Dr. Christopher T. Walsh, profes sor of chemistry and biology, asso ciate director of the Whitaker Col lege and Uncas and Helen Whitaker

## Professor, "New Strategie Rational Design of Drugs." <br> \section*{The AOC weekend will}

 close with a President's come to a close with a President's Receptionat the home of Dr. and Mrs. Gray, starting at 5 pm .
Joseph J. Martori, associate secrecoordinating arrangements for the

## Hart Curator W. A. Baker

## William A. Baker, 69, o

 Hingham, designer of the Mayflower II and dozens flower II and dozens of other replicas of historic ships and boats, die ing a lingering illness.
ing a lingering illness.
Mr. Baker was curator of the Francis Russell Hart Nautica Museum at MIT from 1963 until his retirement earlier this year when he became consultant to The MI' Museum and Historical Collections. He was also a part-time lecturer in the Department of Ocean Engineer ing and at the Munson Institute in Mystic Seaport, Conn.
Mr . Baker began his independen work with the 1949 design for the restoration of Amundsen's Gjoa, the first vessel to make the Northwes Passage, for which he received St.
Olav's Medal from Norway. Other designs included those for a large Virginia-built tobacco ship for th Virginia-built tobacco ship, for th 1799 US frigate ditution, from the Fox papers in the Peabody Museum of Sapers ind Peabody Museu of Salem, and Pigrim Shallop,
boat of 1620 , now afloat in Ply boat of 1620 , now afloat in Ply
mouth Harbor. Mr. Baker also mouth Harbor. Mr. Baker als designed the sai plan and rigging
for Beaver II, a Baltic trader con verted in 1972 to represent the brig. antine Beaverof Boston Tea Party fame.
Most recently Mr. Baker was cura
tor for selection of the exhibit "Gateway to the Sea," developed for
Professor C
roressoru Word has been received of the
death of Dr. Cecil G. Dunn, associate professor emeritus of industrial mi professor emeritus of industrial mi
crobiology in the Department of Nutrition and Food Science. Pro Nutrition and Food Science. Pro
fessor Dunn, who was 77, died fessor Dunn, who was 77, died
August 12 in Tucson, Ariz., follow August a long illness.
ing a long ilness.
A 1930 graduate of MIT, Professor Dunn received the PhD degree in biology in 1934. After serving on the department's staff for several years, he was appointed to the faculty in 1939. Professor Dunn's research centerd on the industrial use of bac teria, yeasts and molds in the for mation of products such as alcohols, acids, antibiotics, enzymes and fer mented foods. Following his retire ment, he continued working in the field as a consultant to the Carna tion Company.
During World War II, Professor Dunn served in the Office of the

## \section*{Quartermaster General, retiring as great-grandson} <br> Professor S. Curtis Powell

Dr. Shannon Curtis Powell, a professor of naval architecture and marine engineering at MIT from 1948 to 1976, died August 28 in Phoenix, Ariz.
Professor Powell, known for his teaching and research in the area of propeller design for marine propulsion systems, was 66 . He retired from MIT in June 1976 and had lived in Phoenix for six years.
He received the SB degree in naval architecture and marine engineer-
committee chaired by James K. LittBradford Bates'59, William A Bare Bradford Bates 59 , William A. Baye '63, Alan J. Lazarus '53, Gail B Marcus '68, James A. Moody '75,
Robert P. Pinckney '52, Robert P. Robert P. Pinckney '57 and John S. Spencer' 57 housed at the Museum of Transpor-
tation. The old photographs, etchtation. The old photographs, etch
ings and maps present a ings and maps present
chronological montage of Boston Harbor history.
A native of New Britain, Conn. Mr. Baker received the SB degree in naval architecture and marine engi neering (now ocean engineering) by the shipbuilding division of th Bethlehem Steel Company for 30 years where he had experience in al phases of merchant and naval ship design, conversion and repair
Mr. Baker was the author of a number of books including The New Mayflower: Her Design and Con struction, A Maritime History of Bath, Maine, and the Kennebec
River Region and The Engin Powered Vessel, and numerous pap ers for journals.
Last fall Mr. Baker was made an honorary member of the Society of Naval Architects and Marine Engi neers, an organization which he had served as a regional officer severa times. He was also a trustee of Pli mouth Plantation, Inc., and a fellow and trustee of the Pilgrim Society of Plymouth, an honorary member of the Boston Marine Society and a American Neptune.
Mr. Baker is survived by his wife Ruth Stuart Baker; a sister, Alyson B. Anderson of Pacific Grove, Calif. and a niece.

## cil G. Dunn

a colonel. He later was commander of the 101st Army Reserve Research and Development Group.

Professor Dunn was the author of the revised edition of Industrial Microbiology, of which he had been Dre Samuel C. Prescott He also Dr. Samuel C. Prescott. He als served for several years as
editor of Food Technology

Professor Dunn was a Fellow of the American Association for th Advancement of Science and the American Academy of Microbiology and a Fellow and Life Member of the American Public Health Association He was also a member of Sigma Xi
and a founding member of the MIT chapter of Pi Tau Sigma
He is survived by a son, Ronald of Arizona; a daughter, Elizabeth Pratley of Nevada; four brothers and two sisters; three grandchildren and one
ing from MIT in 1937 and the docto an naval engineering and me hanics from the University of Genoa with Bethler next decade he was shipbuilding division in Quincy From 1944 until 1948, when he joined the MIT faculty, he was in charge of engineering research at the shipyard. Professor Powell, who never mar ried, is survived by his mother, Mrs. Nita Powell, and his brothe
ton Powell of Orinda, Calif.


[^0]:    A memorial service for Dr. Thomas F Jones, Jr., will be held Thursday, Sept. 24 , at 1 pm in the MIT Chapel. Dr. Jones who was vice president for research, died July 14 after a long illness.
    A scholarship fund in his memory has been established at the Institute, Contributions may be made to the Thom Jones Scholarship Fund, Rm 4-113

[^1]:    

