



Early deadline

The deadline for inserting listings in the Institute Calendar, Notices and Classified Ads will be early this week: **noon Thursday, Sept. 1**, because of the Labor Day holiday observance next Monday.

Benefits advisory

The Tuition Assistance Plan benefits available to retirees have been improved. The Compensation Office has announced that individuals who retired on July 1, 1988 and later will be entitled to tuition assistance benefits for the first three years following retirement.

Previously, this benefit was available for only the first year of retirement. To be eligible, courses must develop skills or interests related to retirement and must be completed within three years. Total reimbursement per year for the three years will be limited to the maximum dollar benefit in effect in the year of retirement (e.g. \$3,000 is available in 1988, 1989 and 1990 for employees retiring in 1988.)

Questions about the Tuition Assistance Plan may be directed to the Compensation Office, Rm E19-434, x3-4271, 9am-3pm daily, or the Lincoln Benefits Office, Rm A-125, x3-7060.

Kid space

Technology Childrens Center has a few full-time openings (Monday-Friday 8am-5:30pm) for children ages 2-9 years. For further information call TCC at x3-5907.

Stickers up

The fee for parking stickers will rise from \$7 to \$10 this year, William R. Dickson, senior vice president, has announced.

Applications for parking stickers will be distributed to department heads soon. When applications are completed they should be returned to the department head with a check, payable to MIT, for \$10 for each sticker desired. An application must be completed for each sticker required.

As has been true since the sticker fee was adopted 12 years ago, carpools and vanpools are exempt from the fee. Carpools, in which two or more drivers each drive periodically, should submit their parking permit applications together.

The last increase in sticker fees was six years ago. The sticker fee helps offset the cost of administering the parking program, which annually allots more than 6,000 stickers.

LIS deadline

Friday, Sept. 2, is the deadline for fall term registration at the Lowell Institute School. Applications and catalogs are available by visiting E32-105 or calling x3-4895.



With the Boston skyline in the background, Solectria V has a demonstration spin along Memorial Drive.
—Photo by Donna Coveney

MIT solar cars to compete in cup race in California

The two solar-powered cars that a team of MIT students will race next month in California had a successful and well attended demonstration on Monday, Aug. 29.

Members of the MIT Solar Racing Team, headed by James D. Worden, a senior in the Department of Mechanical Engineering, demonstrated the cars—a commuting vehicle and a race car—for reporters and photographers behind the Johnson Athletics Center. Later, a Campus Police cruiser led the solar cars and a small convoy on a brisk trip along Memorial Drive.

The MIT team is a strong one with impressive experience in solar-car racing. The students competed in a ground-breaking transcontinental race in Australia a year ago, and this summer, in Switzerland's Tour de Sol-1988, captured two second-place awards and were sixth overall in that six-day race.

Mr. Worden, of Arlington, is project manager, chief designer and chief race car driver. He has been building, racing and commuting in solar cars since his high

school days, both as an individual and as head of the MIT student team.

The September 16-17 race in Visalia, Calif., is called the America's Cup Solar Race by its organizers and will be held in conjunction with the 14th annual Human Powered Speed Championships. The race will cover more than 185 miles of the central California highway system, beginning and ending in Visalia.

The organizers said the race is intended to highlight the technical capabilities of solar-powered vehicles, to increase public awareness of this technology and to promote research and development, all through intensive team competition. The MIT team has been told that the ESPN cable network and ABC's Good Morning America will cover the race.

The two cars the MIT team will enter are the Solectria-V, a racing machine, and Solectria-II, which Mr. Worden, its owner, says is the only registered solar commuter

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Freshman class shows diversity

By ELIZABETH A. THOMSON
Staff Writer

The hard work has paid off. After young lifetimes of achievement, this week members of the Class of '92 will begin the first of many treks along the infinite corridor. Welcome!

This year's freshmen represent all the states and more than 30 foreign countries. A higher percentage than ever before are minorities (17% are blacks, Mexican-Americans, Puerto Ricans or Native Americans and 18% are Asian-Americans), and 34% are women. "This is a very diverse group of students," said Elizabeth S. Johnson, associate director of admissions.

Though they've barely begun their years at MIT, members of the Class of '92 have already passed their first test. They've survived one of the most competitive appli-

cation procedures of any school in the country. Of 7437 applicants, only 1833 were accepted (1003 have actually registered as of August 29).

How were they selected? How did the Admissions Office begin to weed through the thousands of applications, all from quite competent people?

Of course, all of this year's successful applicants had top grades (88% graduated in the top 5% of their high school class). But in general they were also heavily involved in extracurricular activities. "We try to identify what the student does besides study," said Ms. Johnson.

And here the personal touch comes in: application materials for each student are reviewed by at least two "readers." These important people include the 12 profes-

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Freshman R/O feast is underway

By JOANNE MILLER
Staff Writer

Not one but two separate rushes await the freshman class which has begun to arrive on the campus this week and will be fully assembled by Friday.

In addition to the traditional living group rush that begins following the freshman picnic on Friday afternoon, the faculty is ginning up an academic rush for next Wednesday (Sept. 7) when the new students will meet their advisors for the first time.

Altogether some 250 faculty and staff advisors and their upperclass associate advisors—many in costume—carrying pickets or wearing sandwich boards advertising their specialties will mass on Kresge oval to greet the freshmen after an academic convocation featuring a presentation by Professor Daniel S. Kemp of chemistry.

This new arrangement is part of the student-run Residence/Orientation Committee's effort to make a clear distinction between the residence and academic parts of the R/O period.

"We thought concentrating first on residence, then on an introduction to academics would make the R/O period less confusing for freshmen," said Curt Jones, a senior in linguistics and philosophy who is this

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Police help? Think blue

The campus network of emergency telephones changed color and grew over the summer.

"People often thought that the red telephones, mostly located in the parking garages, were for fire emergencies," Chief Anne Glavin of the Campus Police, said. "When we set about expanding the system, we decided to change the color to blue—a traditional police color," she said. All telephones also have blue lights.

The expansion was a joint venture of Campus Police, Physical Plant and Telecommunications. There are now 16 telephones reaching from Hayward Garage on the east to the Tang/Westgate complex on the west. Picking up any receiver brings instant communication with the police dispatcher. Use the lines for any emergency need: police, medical or fire.

Wall-mounted telephones are located at the entrance to E23; between Buildings 12 and 24; near the Green Hall entrance and outside 500 Memorial Drive in Amherst Alley, and at the entrance to NW14.

Pedestal-mounted telephones may be found in McDermott, Lowell and duPont Courts; near the Johnson Athletics Center and MacGregor House on Briggs Field, and near Westgate.

The original—though now blue—telephones are located at the entrances to Hayward, East, Albany and West Garages and at the entrance of E19.

Maps showing the locations are available from the Campus Police Crime Prevention unit, x3-2998.

Gallager named to new Fujitsu Professorship in EE & CS

A grant of \$1.5 million from Fujitsu Limited of Tokyo, Japan, has established the Fujitsu Professorship of Electrical Engineering and Computer Science at MIT. The establishment of the Fujitsu Professorship was announced by President Paul E. Gray of MIT, who also made public the appointment of Professor Robert G. Gallager as first holder of the chair.



On behalf of MIT, Dr. Gray expressed his appreciation to Fujitsu: **Dr. Gallager**

"Through the creation of an endowed professorship in electrical engineering and computer science, Fujitsu has made a vital and permanent contribution to the advancement of research and to the intellectual future of MIT."

"The Fujitsu Professorship will serve as a lasting tribute to the achievements and leadership of Fujitsu and help to strengthen and expand the close relationship which exists between Fujitsu and MIT."

President Takuma Yamamoto of Fujitsu made the following comment on the significance of the company's gift to MIT:

"Through the establishment of our first endowed professorship, Fujitsu is very happy to deepen its longstanding ties with MIT, a world leader in scientific research and education. We decided to set up this endowment because we wish to expand our contribution to technological development in the US, where our overall involvement continues to grow. We are gratified that MIT has selected one of its most eminent scholars, Dr. Robert G. Gallager, as the first Fujitsu Professor of Electrical Engineering and Computer Science, and we are proud to support his valuable research and teaching activities in the field of information theory."

Fujitsu is the largest computer maker in Japan and one of the world's leading manufacturers of telecommunications equipment, semiconductors and other electronic components. Ever since its foundation in 1935, Fujitsu has been working on the development of leading edge technology. Fujitsu engineers created Japan's first digital

Counselman elected AGU section head

Professor Charles C. Counselman III of the Department of Earth, Atmospheric and Planetary Sciences has been elected president of the Geodesy Section of the American Geophysical Union for a two-year term beginning July 1. The AGU is an international association of 22,000 professionals in earth, atmospheric, oceanic, hydrologic, and space sciences. The association promotes research and publicizes findings in those disciplines.

As president of the Geodesy Section, Professor Counselman will represent scientists studying the shape and mass distribution of the Earth, the accurate location of points on the planet's surface, and changes in its rotation. Professor Counselman has made major contributions to geophysics and planetary sciences, in part through the application of very-long-baseline-interferometry (VLBI) techniques.

VLBI, as applied to geodesy, uses observations of widely spaced radio telescopes to observe distant quasars, and thus to determine positions of Earth stations to an accuracy of a few centimeters. Professor Counselman has also applied VLBI to measuring wind speeds in the lower atmosphere of Venus.

Professor Counselman earned all his degrees from MIT—the SB (1964) and SM (1965) in electrical engineering and the PhD (1969) in instrumentation. His many committee appointments have included the NASA Lunar and Planetary Review Panel, the Pioneer Venus Science Steering Group, and the Committee on Geodesy of the National Academy of Sciences. Professor Counselman has received the NASA medal for Exceptional Scientific Achievement, and the Carl Pulfrich Prize.

computer and also the nation's first super-computer.

Fujitsu has a significant presence in the US in terms of marketing, manufacturing, and research and development. With its eight subsidiaries, Fujitsu America, Inc. (FAI), develops, designs, manufactures and supports a broad range of computer and telecommunications equipment. Fujitsu Microelectronics, Inc. (FMI), develops, designs, assembles, tests and markets a variety of standard and custom semiconductors and electronic components. FAI and FMI together have total sales of about \$1.5 billion, employ more than 5,000 people and maintain five local production facilities. In addition, they carry out research and development at eight locations in the US.

Professor Gallager is well known for his work on information theory. His book, *Information Theory and Reliable Communication* (Wiley, 1968), has been the authoritative reference work and the standard graduate text book in this field from 1968 until the present. He is responsible for the modern form of the noisy channel coding theorem, for which he won the IEEE Baker Prize Paper Award in 1966, and for many results ranging from the purely theoretical to forward error control and data compression.

In recent years, Dr. Gallager's research has centered on computer networks. He and his students have done much of the fundamental work on random access communication, and he is also well known for his work on routing, flow control, and distributed algorithms. He is the coauthor of a new text book, *Data Networks* (Prentice-Hall, 1987), which puts the field of computer networks on a more firm conceptual basis.

In his teaching activities, he has alternated between communication and computer science. He has developed courses in computer architecture, stochastic processes, data networks, information theory and mathematical programming.

Dr. Gallager's consulting activities have been in a more applied vein. He helped in the founding of Codex Corporation. After developing several error control products, he became interested in high speed modems for voice grade circuits. The basic architecture that he developed in the late 60s (patent jointly held with Dr. D. Forney through Codex Corp.) became the basis for Codex's high speed modems and later for high speed modems everywhere.

Prof. Gallager has been on the faculty in the Electrical Engineering and Computer Science Department at MIT since 1960 and is currently codirector of the Laboratory for Information and Decision Systems and cochairman of the Department Area in Systems, Communication, and Control. He is a member of the National Academy of Engineering and a Fellow of the IEEE, and he has been on the Board of Governors of the IEEE group on information theory since 1979.

Catalogue is out

The 1988-89 edition of the Courses and Degree Programs catalogue has arrived on campus. Faculty and staff members will be receiving the book through Institute mail.

Catalogues are available now through registration day to upperclass, graduate and Wellesley students in Rm 5-134. Each student is entitled to one copy and will be asked to show ID when requesting a book. After registration day, the Information Center (Rm 7-121) will handle catalogue distribution to students, using the same procedure.

Freshmen will receive their catalogues at the Residence/Orientation Center in Kresge lobby.

Employees who have a work-related need for the catalogue may pick one up in the Information Center by showing their IDs.

Again this year, the catalogue will be available for \$4 per copy to people outside the MIT community, visitors to the Institute, company representatives and prospective undergraduate students applying for the 1989 academic year. The books will be available at the Tech Coop and the MIT Press Bookstore.



Institute Professor Harold E. (Doc) Edgerton, right, received the National Medal of Technology from President Ronald Reagan earlier this summer at a White House ceremony. Doc, who was cited for the invention of the electronic stroboscopic flash and developing applications for it, was one of nine so honored this year. Observing the presentation was William R. Graham, science advisor to the President and director of the Office of Science and Technology Policy.

Colbert to succeed Turner in Graduate School post

Dr. Issac M. Colbert, who has held important administrative posts in the Personnel Office and in Financial Operations, has been named associate dean of the Graduate School at MIT.



Dr. Colbert

He succeeds Dr. John B. Turner who announced last May his intention to leave MIT after a year's leave. Dean Turner has been a key figure in minority graduate student recruitment, retention and education at MIT since 1974.

Dr. Colbert's appointment was announced by Professor Frank E. Perkins, dean of the Graduate School. Professor Perkins also announced the creation of a new assistant dean position which he hopes to fill during the fall term. The assistant dean will have specific responsibility for minority graduate education and will report to Professor Perkins through Dr. Colbert, who will discharge broad responsibilities for the Graduate School. In addition, Ms. Jackie A. Sciacca, assistant to Dean Perkins, will assume additional responsibilities as assistant to

Dean Colbert.

Dr. Colbert joined MIT in 1977 as a senior consultant/trainer in personnel development. From 1979 until 1981 he was assistant equal opportunity officer.

In 1981 he became manager of faculty and staff information services and was responsible for the maintenance, privacy and accuracy of all personnel records including supervision of the computerized database and systems. He also served as the interface with individuals seeking statistical information for various regular needs and special studies.

In July of 1986, Dr. Colbert was named assistant for information system activities to James J. Culliton, vice president for financial operations. He was responsible for overall planning and coordination of information systems activities and the implementation of the Institute's strategic plan for administrative computing, of which he is a principal author along with Professor James D. Bruce, vice president for information systems, and Cecilia D'Oliveira, director of Information Systems Planning and Administration.

Dr. Colbert is a graduate of The Johns Hopkins University and holds the MA and PhD degrees in experimental psychology from Brown University.

Summer Session sets record

More than 2,000 people—the most ever—were enrolled in the 1988 Summer Session which ended last week.

Altogether 2,062 people registered for the 65 one- and two-week programs presented by MIT faculty for professionals in industry, government and other universities. Topics covered a wide range of subjects in engineering, science and management. Among new offerings this year were Technical Japanese for Computer Scientists and Electrical Engineers and Applied Engineering Design: Creativity and Process Methodology.

Also new this year was participation by more than 100 polytechnic faculty members from the Netherlands in a massive national program by the Dutch government to modernize their skills.

A recently installed computer network

in the Summer Session office enabled its staff to handle more than 16,000 inquiries for the 1988 program, according to Professor Frederick J. McGarry, its director.

"Without it, we would have been swamped," he said, "with it, things proceeded very smoothly." Altogether the office processed some 2,700 applications.

Conceived and initiated by former MIT President James R. Killian Jr., the Summer Session began nearly 40 years ago as another means of linking MIT faculty members and researchers to professionals in industry. Typically about 80 percent of registrants come from US and foreign companies, about 10 percent come from government agencies, and the remaining 10 percent from academia. (The latter receive scholarships that reduce their tuition charges by 50 percent.)

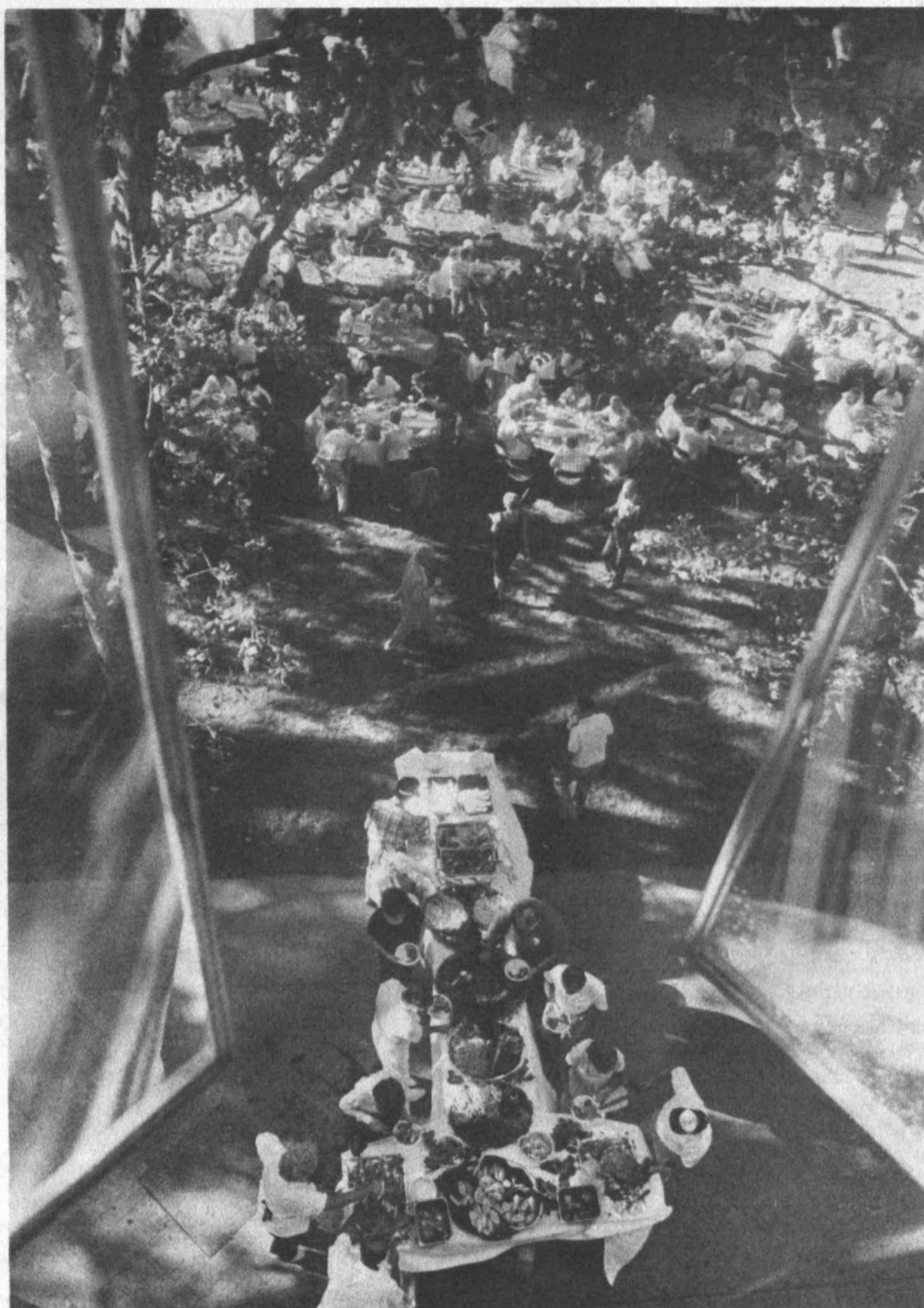
900 gather for Quarter Century Club annual picnic

Though the weather looked doubtful for a while, it cleared in time to play its part in the success of the annual Quarter Century Club picnic in Eastman Court August 18. More than 900 members and their guests were on hand for the popular occasion.

Among those attending were some 100 new members initiated in the spring whose names have not been listed here before. They are:

Professor Thomas J. Allen of Lexington, Sloan School of Management
 Michael E. Austin of San Francisco, Lincoln Group 3KM
 Kathleen M. Barrett of Marblehead, Campus Information Services
 Alma L. Beebe of Chelmsford, Lincoln Group 36
 Alfred E. Benoit of Northboro, Lincoln Group 71
 Jane I. Benson of Quincy, Materials Science and Engineering
 William P. Borge of Gloucester, Physical Plant
 Edward D. Bowles of Medford, Francis Bitter National Magnet Laboratory
 Lee C. Bradley III of Belmont, Lincoln Group 54
 Martin J. Brennan of Sudbury, Lincoln Group 54
 Joseph H. Brenner of Cambridge, Medical Department
 John S. Brownson of Watertown, Lincoln Group 95
 Thomas Burette of Westford, Haystack Observatory
 David E. Burnett of Boston, Comptroller's Accounting Office
 Josephine E. Calderone of East Boston, Comptroller's Accounting Office
 Jack Capon of Lexington, Lincoln Group 44
 Clarence E. Chaklos of Salem, Physical Plant
 Marshall V. Cheverie of Stoughton, Campus Police
 Constance C. Choquet of Woburn, Civil Engineering
 Rodolfo S. Cid of Waltham, Operations and Systems
 Professor George W. Clark of Brookline, Physics Department
 Russell E. Clark Jr. of South Braintree, Graphic Arts
 Ronald J. Cordova of Nashua, N.H., Lincoln Group 53
 Kreon L. Cyros of Saugus, Office of Facilities Management Systems
 James E. Dalton of Arlington, Department of Mathematics
 Richard A. Danforth of Malden, Nuclear Reactor Laboratory
 Richard E. Dolbec of Bedford, Lincoln Group 72
 Professor Richard M. Douglas of Wellesley, History Section
 Rolf R. Engler of Woburn, Urban Studies and Planning
 James B. Enos Jr. of Andover, Lincoln Fiscal Office

Professor Lawrence B. Evans of Cambridge, Department of Chemical Engineering
 Herbert W. Ewin of Arlington Electrical Engineering and Computer Science
 Dennis J. Farrell of Watertown, Francis Bitter National Magnet Laboratory
 Franklin W. Floyd Jr. of Concord, Lincoln Division 6
 Professor Maurice S. Fox of Brookline, Department of Biology
 David R. Gabbe of Brookline, Materials Science and Engineering
 David P. Gale of Bedford, Lincoln Group 15
 Richard J. Gaudette of Nashua, N.H., Lincoln Group 28
 Gerald A. Greenhow of Westwood, Purchasing and Stores
 Walter Griffin of Cambridge, Physical Plant
 Kyra M. Hall of Belmont, Research Laboratory of Electronics
 Charles T. Halpin Jr. of Chelsea, Physical Plant
 Professor Norman D. Ham of Brookline, Department of Aeronautics and Astronautics
 Richard C. Hancock of Gardner, Lincoln Group 82
 Sally H. Hansen of Cambridge, Personnel Office
 Merrill G. Harper of Epsom, N.H., Environmental Medical Service
 George W. Herald of Burlington, Physical Plant
 Professor Philip B. Herr of Newton, Department of Urban Studies and Planning
 Professor Walter M. Hollister of Lincoln, Department of Aeronautics and Astronautics
 Jarmila Z. Hrbek of Cambridge, Office of the President
 Norman L. Iverson of Whitman, Francis Bitter National Magnet Laboratory
 Paul J. Johnson of Danvers, Lincoln Group 44
 Stanley J. Josoma Jr. of Brighton, Lincoln Group 72
 Professor Arthur Kaledin of Lexington, History Section
 Venetia Kaloyanides of Somerville, Research Laboratory of Electronics
 Professor Gordon M. Kaufman of West Newton, Sloan School of Management
 Gordon V. Kelly of Northboro, Department of Athletics
 Professor James L. Kinsey of Newton, Department of Chemistry
 Professor Stanley B. Kowalski of Arlington, Department of Physics
 Chester J. Kurys of Lexington, Lincoln Group 32
 Robert T. Letizi of Westford, Haystack Observatory
 George A. Lincoln Jr. of Hudson, Lincoln Group 87
 John F. Mac Kinnon of Sharon, Physical Plant
 William H. Maclachlan of Waltham, Lincoln Director's Office



Windows of Building 14 frame a view of the recent Quarter Century Club annual picnic.



Senior Vice President William R. Dickson (back to camera) chats with Alice and Larry Pickard at the Quarter Century Club picnic held earlier this month. Mr. Pickard is an engineering assistant in Physical Plant.

—Photos by Donna Coveney

Jerome E. Mader of Northboro, Lincoln Group 93
 John H. Mahoney of Waltham, Lincoln Group 18
 E. Larry Mastromattei of Auburndale, Lincoln Group 83
 Elisabeth Pate Meyer of Waltham, Lincoln Group 18
 Robert A. Mocklin of Lexington, Lincoln Group 71
 Institute Professor Franco Modigliani of Belmont, Institute Professor
 Jean E. Morrison of Cambridge, Francis Bitter National Magnet Laboratory
 Clarence J. Mosey of Burlington, Lincoln Group 12
 Paul F. Murray of Westford, Lincoln Group 76
 Leo J. Neuringer of Wellesley, Francis Bitter National Magnet Laboratory
 Charles W. Niessen of Carlisle, Lincoln Division 5
 David M. Osborne of Norwell, Laboratory for Nuclear Science
 Margarete H. Palazzi of Cambridge, Libraries
 Christopher D. Parker of Cambridge, Lincoln Group 87
 Robert E. Payson of Milton, Operations and Systems
 Barbara J. Pellicchia of Burlington, MIT Press
 Professor Ronald F. Probststein of Brookline, Department of Mechanical Engineering
 Maria E. Re of Arlington, Comptroller's Accounting Office
 Ronald M. Reader of Medford, Lincoln Group 15
 James B. Reebel of Derry, N.H., Physical Plant
 Joseph Ricardo of Tewksbury, Lincoln Group 12
 Robert H. Rines of Concord, N.H., Electrical Engineering and Computer Science
 James R. Ritchie of Lincoln, Lincoln Group 91
 Paul D. Robertson of North Billerica, Lincoln Group 15
 John F. Rockart of Weston, Sloan School of Management
 Peter T. Scaglione of Medford, Graphic Arts
 Professor Peter H. Schiller of Newton, Department of Brain and Cognitive Science
 Carl A. Seagren of Tewksbury, Housing Office
 Allan R. Shaw of Needham Heights, Aeronautics and Astronautics
 Anne Shepley of Brookline, Architecture
 Professor W. Gilbert Strang of Wellesley, Department of Mathematics
 Reese W. Straw of Chelmsford, Lincoln Group 48
 Albert T. Supple Jr. of Pembroke, Aeronautics and Astronautics
 Rebecca L. Taggart of Indianapolis, Ind., Libraries
 Professor Alar Toomre of West Newton, Department of Mathematics
 Diane R. Valcourt of Salem, N.H., Lincoln Division 7
 Gerald L. Valcourt of Salem, N.H., Lincoln Group 51
 Robin Verdier of Belmont, Laboratory for Nuclear Science
 Professor Harold Y. Wachman of Lexington, Department of Aeronautics and Astronautics
 Professor Joseph B. Walsh of Westport, Department of Earth, Atmospheric and Planetary Sciences
 Jerry D. Welch of Lexington, Lincoln Group 42
 Thomas White Jr. of Dedham, Physics
 Elizabeth J. Whittaker of Cambridge, Chairman of the Corporation
 Kerry B. Wilson of Belmont, Personnel Office
 Frank R. Winsor of Melrose, Superintendent's Office
 Hans Wuest of Cambridge, Chemistry
 George F. Yarworth of Belmont, Plasma Fusion Center

Student Center due back soon in new, improved version

If all goes according to plan, the public spaces in the Student Center will begin reopening in mid-September, beginning with the Lobdell Food Court.

The reopening has been delayed a few weeks because renovations to the building were much more extensive than originally planned, according to Stephen D. Immerman, director of operations for the Campus Activities Complex. Work included installation of new electrical, mechanical and heating and ventilation systems, as well as sprinklers and fire alarms which are yet to be tested out.

Other changes of general benefit include installation of men's and women's restrooms on every floor and improvements to the Student Center Committee's 24-Hour Coffee House and the Games Room.

In addition, Mr. Immerman noted, a decision to substantially upgrade food services for the community required more extensive rebuilding of the kitchen.

"We will be able to offer foods we have never been able to use before because of kitchen limitations," Gene Perkins, director of the Student Center Food Services, said. Such things as French fries cooked to order, pizza and soft-serve yogurt with fruit toppings will be available for the first time, as well as bread, pies and cakes baked on the premises. Many items will be prepared quickly for—and in front of—individual customers.

There will also be a new cafe—called Networks—in the building. Networks will have a counter for fast take-out or eat-

there orders plus a seafood-based full-service restaurant that will serve wine and beer. Plans call for Network to be open extended hours, seven days a week beginning in October.

In October the building's service and retail establishments will move into their renovated spaces and be joined by several new ones. Returning to the basement from the loneliness of their fourth floor temporary spaces will be the Post Office, the Optical Shop, the Barber Shop and Charlie the Tech Tailor.

The Microcomputer Center will move over from Building 11. Graphic Arts will have a 24-hour self-service copy center, with an attendant to handle longer runs during the day. It will also have some Macintosh computers for on-site use and sell individual disks. Rounding out the MIT enterprises in the building will be a Museum Shop specializing in "intellectual whimsy."

Other organizations who have leased space in the building include Baybank, which will have a full-service office; Newbury Comics, Council Travel and the Coop, which will sell stationery, MIT insignia items and trade books. Negotiations are continuing for a grocery store and unisex hair salon.

Watch Tech Talk for an announcement of the upcoming reopening dedication ceremony of the Julius Adams Stratton Building.

—Joanne Miller

Freshman class shows diversity

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sionals in the Admissions Office as well as faculty and staff volunteers from throughout the Institute. "This year we had 90 outside readers [faculty and staff]," said Ms. Johnson. "Of those, 40 read 20 or more folders, and 14 were faculty."

"After reviewing a student's folder," said Ms. Johnson, "each reader rates the student on three different dimensions: personal style, personal accomplishments, and academic style." To tally up personal style, the reader asks "Is this student a leader? Is he/she an organizer? Self-motivated?" Personal achievement concentrates on extracurricular activities. What has the student done, and how good is he/she at it?

Academic style involves "co-curricular" activities. Has the student done independent research in some area? What are his/her accomplishments in a particular academic field?

The reader's ratings for all three dimensions are combined with a computer-generated academic rating based on class rank, grades, and other numerical data. The final combination of these factors determines the student's ultimate rating . . . and whether or not he or she'll be accepted.

In the end, however, "what we try to do is put together a class that's interesting to each other, as well as one that will contribute to the Institute," said Ms. Johnson.

Coming weekends to bring 'Mikado'

The MIT Musical Theatre Guild, currently in its 16th season, will present Gilbert & Sullivan's *The Mikado* in Kresge Little Theatre, September 2-4, 8-10 and 15-17.

Set in the unpredictable town of Titipu, Japan, *The Mikado* tells the tale of political and emotional highjinks concerning the affairs of Nanki-Poo, the son of the Mikado of Japan; Yum-Yum, the object of his love; Ko-Ko, lord high executioner of Titipu and Yum-Yum's warden; Pooh-Bah, lord high everthing else; Katisha, an heiress in love with Nanki-Poo; and the Mikado himself. This production of *The Mikado* is pre-

sented in Modified Kabuki Theatre form with traditional Japanese dress, makeup and movement. According to producer Peter M. Colao '89 it promises to be a genuinely entertaining evening for all.

All shows are at 8pm and seating is reserved. Ticket prices are: \$4/MIT students, \$5/other students and seniors, \$6/MIT faculty and staff and \$7/general public. Freshmen will be admitted free to the Sept. 8-10 performances and group rates are also available. Tickets may be purchased at Out-of-Town Tickets, Harvard Square, or may be reserved by telephone, X3-6294.

1988-89 Holiday schedule

Following are the recognized Institute holidays during the upcoming academic year and the days and dates on which they will be observed:

Labor Day	Monday, September 5
Columbus Day	Monday, October 10
Veterans' Day	Friday, November 11
Thanksgiving Day	Thursday, November 24
Christmas Day	Monday, December 26
New Year's Day	Monday, January 2
Martin Luther King Day	Monday, January 16
Presidents' Day	Monday, February 20
Patriots' Day	Monday, April 17
Memorial Day	Monday, May 29
Independence Day	Tuesday, July 4

A holiday which falls on Sunday is observed the following Monday; a holiday which falls on Saturday is observed the preceding Friday, unless the Institute designates another day as the holiday.



James Worden in Solectria V with his commuter car in the background.

—Photo by Donna Coveney

MIT solar cars to compete in cup race in California

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car in the United States. The race car is a streamlined, three-wheeled vehicle built in 1988 with the support of Dow Chemical, ARCO Solar and MIT, as well as Whitaker-Yardney Power Systems. The car, made mostly of lightweight Dow plastics and composites, weighs only 340 pounds and is capable of speeds up to 90 miles an hour, its builders say. The optimum cruising speed is 65 miles an hour.

The commuting car uses ARCO solar cells and a SAFT nickel-cadmium battery pack. It is capable of 35 miles an hour and can travel 30 to 40 miles on a sunny day.

Other members of the team are Erik G. Vaaler, a graduate student in mechanical engineering, who is the project adviser and assembly techniques expert.

Gill Pratt, a graduate student in the Department of Electrical Engineering and Computer Science, who oversees the electronic design and assembly aspects of the vehicles.

Catherine J. Anderson, undergraduate in mechanical engineering, who deals with machining and the composite construction and who also drives.

Mark Wintersmith, an undergraduate in management, is the team's promotional director and also solicits corporate sponsorship.

Other members of the design, assembly and support team are Andrew M. Heafitz, Tanya Jegeris, Martin C. Scheidl, Elisabeth Stock, Julia Ask and Karen Lewis.

Freshman R/O feast is underway

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year's R/O coordinator. "This will make it possible for the freshmen to devote their full attention to residence selection for the first several days and may relieve the pressure of that decision."

With that out of the way, the focus will switch to education. Freshmen will meet in groups and individually with their advisors and visit departmental open houses Wednesday afternoon.

The major focus of Thursday is "Book Day." Each freshman received a copy of Toni Morrison's novel, *Beloved*, to read during the summer. A presentation on the book will be held in Kresge Auditorium at 4pm, with after-dinner discussions with faculty members to continue in the residences.

On Friday, Sept. 10, the popular Freshman Explorations will return. Begun last year, this program encourages faculty members, labs and offices to schedule demonstrations of their activities. The number of Explorations has doubled for

this year.

Throughout this academic period there will also be introductions to special education programs such as the Integrated Studies Group, Concourse, the Undergraduate Research Opportunities Program, the Experimental Studies Program and the Writing Requirement.

R/O in total includes nearly two weeks of activities that began Monday with the arrival of international students and will end September 13 with registration. (Because that date is Rosh Hashanah, alternative registration will be held Tuesday and Wednesday, Sept. 13 and 14, 8am-4pm). All registration this year will take place in the Johnson Athletics Center.

In addition to all of the official activities orienting new students, there are dozens of tours, ice cream outings, barbecues, entertainments and sporting activities to help the new students get acquainted. Come September 14, the bewildered young people we are seeing this week will be old hands at the campus—and probably very tired.

Ashdown renovations ease housing crunch

Amid the fanfare of a ribbon cutting and reception, six new suites of rooms with a total of 24 beds were opened in the renovated basement of Ashdown House this July.

"This is an unqualified step forward toward improving graduate student housing on campus," said Jim Abbott, president of Ashdown House. According to Mr. Abbott the renovated basement had been used for storage; the basement on the other side of Ashdown is now being used for that purpose.

Each of the new suites has its own bath; two have a full kitchen and lounge. The entire floor shares two large lounges and a kitchen. The new rooms are coed by suite and have already been filled for the fall term.

Mr. Abbott noted that many people helped make the new rooms a reality, including Vernon and Beth Ingram, housemasters, Lee Birks, house manager, Mike Mills, Bob Hagerty, Larry Maguire and Karen Nilsson from the housing office, and Joe Salvatore from physical plant.