

Faculty meeting

A regular meeting of the faculty will be held today (Wednesday, Dec. 18) at 3:15pm in Huntington Hall (Rm 10-250). On the agenda are two resolutions:

—To call on the Corporation to divest of all holdings in firms doing business in or lending to South Africa.

—To endorse the goals of the Association of Concerned African Scholars Campaign to have the TIAA/CREF divest from South Africa related holdings.

Explanatory documentation has been circulated with the Call to the meeting.



Keep this paper

The Timetable for the first three days of Independent Activities Period (January 6-8) as well as pre-IAP events appears as an adjunct to the Institute Calendar this week. Students should save this paper because only a limited supply will be available when IAP begins.

The January issues of Tech Talk will carry subsequent IAP Timetables. The deadline for listings in the January 15 and 22 issues is Wednesday, Jan. 8. All listings are coordinated by the IAP Office, Rm 7-108. Only new or changed listings need to be submitted. Listings independently sent to Tech Talk will not be accepted.

The IAP display in Lobby 7 will carry daily updates to the Timetable.



Welcome, 1990

Early action has been completed in the Admissions Office on the Class of 1990 and the admit list is available there (Rm 3-108) for students to consult before leaving for Christmas Vacation.

"Present students are our best ambassadors to potential future students," Michael C. Behnke, director of Admissions, said. "They know what going to MIT is like and can give a personal evaluation to high school students making their college decisions."

Altogether 421 offers of admission to the Class of 1990 were sent. The students were selected from 1,026 applicants seeking early admission. Thirty-five per cent of those admitted were women and five and a half per cent were minority candidates.



First Nighters

Eight artists from MIT will be at the heart of Boston's "First Night," a nationally celebrated citywide New Year's Eve festival observing its 10th year. Otto Piene, director of the Center for Advanced Visual Studies, will be artistic director for "Zodiac," an installation of earth, air, fire and water, to be created in Boston's City Hall Plaza (Government Center stop on the T). It involves two CAVS artists: Paul Earls, with laser projections and amplified music, and Joan Brigham, working in steam. Volunteers are needed for this project (Call 424-1699). Three video events will be given by CAVS fellow Vin Grabill, by Sarah Geitz '85 graduate in the Master of Science in Visual Studies program, and Bill Seaman, also MsVs '85, working with MsVs candidate Ellen Sebring. MsVs student Laura Knott will present a dance event and "The Burning Fiery Furnace" will be presented by the John Oliver Chorale led by the MIT senior lecturer in music.

Guides listing the schedule and locations of First Night events are available by calling the number listed above.



MIT's Franco Modigliani accepts the Alfred Nobel Memorial Prize in Economics from Sweden's King Carl XVI in a ceremony December 10 in Stockholm. Professor Modigliani, whose laurels this year include the James R. Killian Jr. Faculty Achievement Award, will present two Killian lectures at MIT on April 2 and 9. —AP/Wide World Photo

Donations brighten future of library

Maria "Minky" Seromo, the South African intern Tech Talk featured in its November 20 issue, is overwhelmed with the donations she has received for a library she will open upon returning home.

Contributions have come from readers who want to help her raise funds for a children's library she will begin in the black township of Mamelodi. Mamelodi is in the South African province of Pretoria.

"There was no literature, no useful books," she remembered of the library there that was closed during riots in 1976. "We blacks have no money to buy books. We're referred to as not having a love for reading. But I do not see this as becoming possible when we are not exposed to good literature to give us a clear and full insight of reading," she said.

The Fulbright Scholar, who left MIT last week after completing an internship at the Science Library, wants a building to house the library, but she noted that she may be forced to start a personal collection in her house and in the future raise more funds.

"I want black children to learn to develop a love for literature. I also want black children to learn to read leisurely on their own, be exposed to books at an early age to open the way for their future usage of literature. I was not exposed to good literature—I learned the hard way."

Although most donations are coming from the MIT community, Ms. Seromo said a Harvard library staffer wants to set up a clearing house there where the Harvard community can contribute to the fund also.

Even though Ms. Seromo left Boston last week, donations may be forwarded to Julian W. Green, head of the Science Library, or Hope E. Brand, secretary, Rm 14S-132 (x3-1294).

Kudos to high school teachers bring return thanks

"I think I must feel as good as does your latest Nobel Prize winner!"

So began a recent thank-you note to Admissions Director Michael C. Behnke who has received about a dozen such notes from high school teachers across the nation.

Each summer the Admissions Office conducts a "cancellation study," sending questionnaires to all admitted students asking reasons for why they will or will not be entering MIT in the fall. The questionnaire includes an entry asking the student for the name of a teacher who has been influential in his/her development.

New honors for two: Dresselhaus is Institute Professor

Dr. Mildred S. Dresselhaus, Abby Rockefeller Mauze Professor of Electrical Engineering and Physics, has been named an Institute Professor. Her selection was announced jointly by President Paul E. Gray and Professors Mary C. Potter and Arthur C. Smith, the present and past chairmen of the faculty.

The title of Institute Professor is an honor bestowed by the faculty and administration on a colleague for distinguished accomplishments in scholarly, educational, service and leadership pursuits. There are usually no more than 12 active Institute Professors on the faculty. The appointment of Professor Dresselhaus brings the active number to 12, in addition to Dr. Edwin H. Land, who has been a Visiting Institute Professor for many years. There are also 17 Institute Professors Emeriti. Professor Dresselhaus will become the first female Institute Professor.

Professor Dresselhaus has focused her scholarly attention on electronic, optical and

magneto-optical properties of semiconductors and semimetals. Her recent work has concentrated on graphite intercalation compounds, graphite fibers and the modification of electronic materials by intercalation and implantation.

With a national reputation as an educator and leader in developing wider opportunities for women in science and engineering, Professor Dresselhaus has also been a champion for women at MIT. Her first appointment to the faculty was as Abby Rockefeller Mauze Visiting Professor in electrical engineering in 1967. The professorship is reserved for the appointments of distinguished women scholars who will encourage advancement of women in the professions, industry and the arts.

Professor Dresselhaus was a founder of the MIT Women's Forum which began as an IAP seminar to explore the roles of women in science and engineering. It was so successful that it has continued ever since, focusing now on the broad range of issues of interest to all women at MIT. For a number of years she also led a freshman seminar in engineering, which, though designed to build confidence in young women, drew a large audience of both sexes.

Professor Dresselhaus became a permanent member of the faculty in 1968 and now holds

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Widnall to be AAAS president

A new honor has come to Sheila E. Widnall, professor of aeronautics and astronautics at MIT.

Dr. Widnall, known internationally for her work on the problem of aircraft turbulence, will become president-elect of the American Association for the Advancement of Science (AAAS) on May 31, 1986, immediately following the AAAS's annual meeting in Philadelphia.

The AAAS is the world's leading general scientific organization, with some 136,000 individual members and 285 affiliated scientific and engineering societies and academies of science. It publishes

the weekly journal, Science, and the popular science magazine, Science 85.

Professor Widnall was elected in balloting among association members conducted in September and October. She has served as a member of the AAAS board of directors since 1982.

Dr. Widnall will be the fifth woman president of the AAAS, and only the fourth engineer elected to head the association in its 137-year history.

A member of the MIT faculty for 21 years, Professor Widnall was the first MIT alumna appointed to the faculty in the School of Engineering and the first woman chairman of the MIT faculty, a post she held in 1979-80.

Professor Widnall received the SB and SM from MIT in 1961 and the ScD in 1964, the same year she joined the faculty. She became

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Research funds rose 9.1 per cent in FY '85

Sponsored campus research at MIT in fiscal 1985 increased 9.1 per cent over fiscal 1984, with the Department of Energy maintaining its number one ranking among campus research sponsors, Budget Director Robert M. Dankese reports.

In his annual report, Dankese puts the total campus sponsored programs research volume for the year ending June 30, 1985, at \$241,725,000—an increase of \$20,144,000 over the fiscal 1984 volume of \$221,581,000.

Total Lincoln Laboratory research volume for fiscal 1985 was \$264,483,000, an increase of \$23,990,000, or 10 per cent, over the fiscal 1984 volume of \$240,493,000. (A substantial portion of Lincoln research is sponsored by the federal government, and most of that by the Department of Defense.)

In terms of constant dollars, campus research increased by 5.1 per cent and Lincoln Laboratory research by 6 per cent between fiscal 1984 and 1985. It was the second consecutive year of real growth for campus research, and the third year for research at Lincoln.

The report also contained these highlights:

—The largest growth in campus research again was in industrial support, which increased 20.8 per cent over the previous year.

—MIT's dependence on federal support for its total campus research has decreased to 78.6 per cent from 85.6 per cent in fiscal 1979. For each of the years during that period, Dankese said, the Department of Energy has led all other research sponsors.

The report disclosed that the rankings of the five largest campus sponsors were the same in fiscal 1985 as in 1984. The top five, with comparative totals for 1984 in parentheses, were:

1. Department of Energy, \$56.4 million (\$51.5 million).
2. Department of Health and Human Services, \$40.3 million (\$36.3 million).
3. Department of Defense, \$38.6 million (\$34.6 million).
4. National Science Foundation, \$33.7 million (\$30.9 million).
5. Industry, \$33.5 million (\$27.7 million).

This year Mr. Behnke began sending congratulatory notes to the teachers mentioned, saying "... More importantly, we thank you for the time, patience, expertise, love, discipline and all the other qualities which have had such an important impact on your students..."

The teacher above ended her note by saying "[Your letter] has given me a fresh look at my profession and a renewed energy to love and to cherish those sometimes rambunctious beings who will all too soon have to run a world which will test their mettle and their values."

Another teacher wrote to say "If this is a new practice, please continue it. If there is any way that you can spread this type of action to other colleges, please do so."

"At this time, good public school teachers need this type of encouragement just to maintain a good hold on the perspective of what we are actually doing."

Mr. Behnke says the Admissions Office plans to continue the new practice.

"Pressures on teachers are increasing everywhere. We hope to do anything we can to assure them that we appreciate their efforts."

Weitzman named to Mitsui chair

Dr. Martin L. Weitzman, a leading economic theorist and professor of economics at MIT, has been appointed to the Mitsui Professorship in Problems of Contemporary Technology for a five-year term, effective January 1, Provost John M. Deutch has announced.

The Mitsui chair was established in 1974 through a gift of \$1 million from the 30 companies of the Mitsui Group of Japan, one of the world's leading industrial enterprises. Its interests include manufacturing industries, mining, trade, commerce and banking.

The objective of the professorship is to encourage cultural and technological exchange between the United States and Japan. This is accomplished, in part, through visits by the chairholder to Japan to present lectures and to participate in seminars and conferences, and by visits to MIT by Japanese scholars, scientists and engineers.

Dr. Weitzman, the third holder of the chair, succeeds Dr. Michael J. Piore, professor of economics. The first Mitsui professor was the late Carroll L. Wilson, professor in the Sloan School of Management.

Dr. Weitzman, 43, gained widespread recognition in 1984 for his book, *The Share Economy*, which argues that a profit-sharing system that links pay to corporate performance could be better for American industry and its workers

than the traditional wage system.

Born in New York City, Professor Weitzman received a BA degree in mathematics and physics in 1963 from Swarthmore College, an MS in statistics and operations research from Stanford University in 1964 and the PhD in economics from MIT in 1967. He was a research staff member at the Cowles Foundation in 1967-72 and an assistant and later associate professor of economics at Yale University from 1967 to 1972.

Dr. Weitzman came to MIT as associate professor of economics in 1972 and was appointed professor in 1974.

Professor Weitzman has been a consultant to the World Bank, International Monetary Fund, Agency for International Development and Canadian Royal Commission on Unemployment. He is an associate editor of two professional journals, the *Journal of Comparative Economics* and *Economics Letters*.

He has received numerous honors, fellowships and scholarships. He was a National Science Foundation Fellow in 1963-65, a Woodrow Wilson Fellow in 1963-64, a Ford Foundation Dissertation Fellow in 1966 and a Guggenheim Fellow in 1970-71. He has been a Fellow of the Econometric Society since 1976.

Professor Weitzman has published more than 35 articles in academic and professional journals on such topics as micro-theory, mathematical economics, comparative economic systems, economic planning, Soviet economics, economic development, the foundations of macro-theory, operations research and energy economics.

Dr. Weitzman lives with his wife, Dorothy, and daughter, Rodica, in Newton.

Arms control grants announced

Twelve awards have been made from the John D. and Catherine T. MacArthur Foundation grant to MIT to promote faculty and student research and study on problems of international security and arms control.

The awards were made primarily to support research by individuals whose previous work had not been focused on security and arms control matters. Most awards involve graduate students as well as faculty.

The awards were made by Professor Francis E. Low, former provost, on the recommendation of a committee headed by Professor Eugene B. Skolnikoff, director of the Center for International Studies, and Professor Carl Kaysen, director of the Program in Science, Technology and Society. The 1985-86 awards were selected from a much larger number of proposals submitted by members of the MIT faculty and research staff. A second competition will be announced shortly for projects in 1986-87.

In addition to the individual projects, the grant is supporting a seminar, the members of which will include all award recipients and other members of the MIT community who work on arms control and defense issues.

The 1985-86 awards support studies on the following topics:

Computer-based Teaching Models of Security Problems, Professor Hayward Alker, Department of Political Science.

Crisis Control: The Case of the October 1973

Alert, Professor Aron Bernstein, Department of Physics.

Teenagers' Reactions to the Threat of Nuclear War: Comparative US-USSR Study, Dr. Eric Chivian, Medical Department.

Comparative Study of Media Coverage of Security Issues, Professor Edwin Diamond, Department of Political Science.

Arms Control Issues Relating to the Oceans, Professor Ira Dyer and others, Department of Ocean Engineering.

Nuclear Test Detection: Understanding Technical Data, Professor Thomas Jordan, Department of Earth, Atmospheric and Planetary Sciences.

The Impact of War on Social Development in the Middle East, Professor Philip Khoury, Department of Humanities, History Section.

Approaches to Curbing the Arms Race in Space: Alternate Roles for Skilled Technical Personnel, Professor Jean Louis, Department of Aeronautics and Astronautics.

The Future of the Test Ban Treaty, Dr. Marvin Miller, Department of Nuclear Engineering.

Impact of Interservice Rivalry on US Arms Control Policy, Professor Harvey Sapolsky, Department of Political Science.

The Trustworthiness of Command and Control Systems, Professor Thomas Sheridan, Department of Mechanical Engineering.

Economic Development: Arms Spending and the Arms Trade, Professor Lance Taylor, Department of Economics.

Kanwisher wins MacArthur fellowship

Can the concepts of psychology and other academic disciplines not directly related to international security contribute to world peace? The Social Science Research Foundation in New York believes that they can, and has selected Nancy G. Kanwisher of MIT as one of 23 postdoctoral and advanced graduate students from diverse academic backgrounds to receive the first MacArthur Foundation Fellowships in International Security.

The program's premise is that research in international security requires a broader set of concepts than has been applied to the subject until now. Thus, Dr. Kanwisher, a psychologist, is representative of the researchers chosen for new training outside their fields. They come from such disciplines as the social and behavioral sciences, the physical and biological sciences, and the humanities.

Ms. Kanwisher, 27, who will receive the PhD in psychology from MIT in February, has specialized in cognitive psychology, which examines how the mind processes information. By extending this interest into the related domain of decision-making, she will focus on trying to determine how world leaders make the judgments that affect international security.

"In human decision-making and problem solving," she said, "people make systematic errors. What I want to investigate is why these errors in judgment and reasoning occur, and how widespread they are in political thinking."

In the first year of her two-year fellowship she will study at Columbia University with Professor Robert Jervis, a political scientist and author of "Perception and Misperceptions in International Politics."

Ms. Kanwisher, the daughter of John W. Kanwisher, an animal physiologist associated for many years with the Woods Hole Oceanographic Institution, received the SB in biology at MIT in 1980. She decided to do her graduate work in psychology, she said, because she wanted to study and think about the human organism in a larger framework.

Kelly competition is open for papers

The Humanities Undergraduate Office has announced the opening of the 1985-86 I. Austin Kelly III Competition in Humanistic Scholarship.

The competition, now in its 12th year, offers two prizes of \$250 each for the best scholarly or critical papers in the fields of literary studies, history, musicology, anthropology or archaeology. It is open to all full-time undergraduates except previous winners.

Papers must be at least 4,000 words long (about 14 standard typed pages). Papers may be written expressly for the contest or may be from academic subjects, either as written or in revised and expanded form. Students are encouraged to consult with faculty members in preparing papers for submittal.

The final deadline is Thursday, May 1, 1986, but entries derived from fall term subjects will be accepted beginning now. The competition is administered by the Humanities Undergraduate Office.

The winning papers will be chosen by a panel of faculty judges from the disciplines represented in the competition. The prizes will be presented at a dinner attended by the winners, judges and past winners.



Walter L. Milne, assistant to the chairman and the president, headed up a successful MIT effort to raise money for the Salvation Army last Friday. The project, sponsored by the Cambridge Rotary of which Mr. Milne is a member, was a competition between MIT and Central and Harvard Squares. MIT was victorious, raising \$796.89, as opposed to \$727.01 at Harvard Square and \$605.99 at Central Square. Besides Mr. Milne, the energetic volunteer bell-ringers at MIT included Joan Legros, Susie Kendall, Charlotte Layman, Marsha Edmunds, Sue Crowley, Leslie Barton, Jane Shapiro, Audrey Bell, Leslie Cariani, John McCrear, Mark Barnard, Ron Suduiko and Sandy Nett.

—Photo by Calvin Campbell

Two named Macomber Professors

Dr. Ranko Bon, assistant professor in the Department of Architecture, and Dr. Alexander H. Slocum, assistant professor in the Department of Civil Engineering, have been named the first George Macomber Career Development Professors in Construction Management.

The appointments were announced by John M. Deutch, provost and Arthur C. Cope Professor of Chemistry. The chairs were endowed by George Macomber '48, president of the George B.H. Macomber Co. of Boston. They were established in the architecture and civil engineering departments to address fragmentation, one of the key problems in the construction industry.



Dr. Bon



Dr. Slocum

Professor Bon joined MIT as assistant professor of economics in architecture in 1983. Before that he was an assistant professor of economics at Northeastern University from 1980-83, a lecturer in economics at the University of Massachusetts from 1979-80, lecturer of urban studies and planning at MIT from 1979-80 and scientific counselor, Urban Planning Institute of Slovenia, Ljubljana, Yugoslavia from 1975-79. He also taught introduction to Architectonics at the Boston Architectural Center from 1972-73.

Professor Bon is presently working on comprehensive office building evaluation and cafeteria design and planning expert system development for the Real Estate and Construction Division of the International Business Machines Corporation. He is also a consultant to the Division of Capital Planning and Operations for Massachusetts in preventive building maintenance.

A founding member of the Philomorphs, Harvard University and the Panel on Building Economics and Industry Studies, Professor Bon is also a member of the American Economic Association, the Architectural Research Centers Consortium, Building Economics Working Commission of the International Council for Building Research Studies and Documentation.

A diplomed engineer in Architecture, Belgrade University, Professor Bon received a master's degree in City Planning from Harvard University in 1972 and a PhD in Urban Studies and Planning from MIT in June 1975.

His interests are in building economics and construction economics.

Dr. Slocum, a mechanical engineer with the US National Bureau of Standards (NBS), Gaithersburg, Md., since 1983, received the SB in 1982, the SM degree in 1983 and the PhD

in 1985, all in mechanical engineering from MIT.

At NBS, he proposes, plans, organizes and conducts research and development of Computer Numerical Control mechanical devices for use in the NBS Automated Manufacturing Research Facility. His projects include the Computer Numerical Control (CNC) double hand robot gripper, three axis CNC fixturing device for use on machining centers, five axis robotic micromanipulator and precision fixturing system for diamond turning machines.

Professor Slocum is a member of the American Society of Mechanical Engineers, Society of Manufacturing Engineers and American Society of Civil Engineers and the American Society of Metals. His interests are in precision machine tool and robot design, and systems automation. As a result of his work in these areas, he has eight patents pending.

Candidates sought for vice presidency

President Paul E. Gray has asked the MIT community to help in the important search for a successor to Professor Samuel A. Goldblith as vice president for resource development.

It was announced in October that Professor Goldblith was stepping down from the post he has held for seven years.

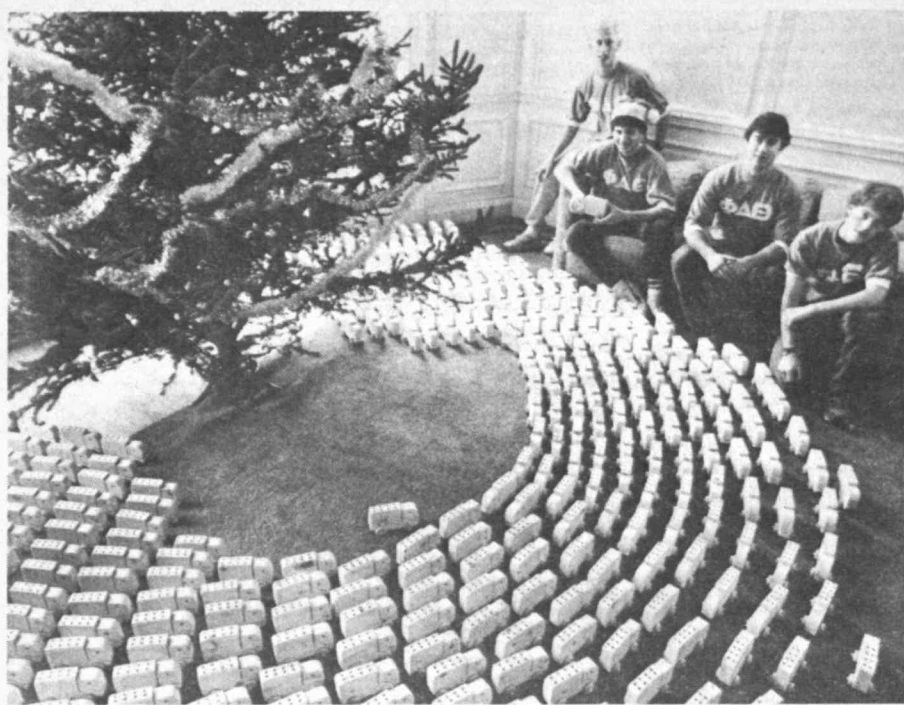
President Gray said the Institute is seeking a person who can bring to the position a very special combination of talents, energy, and understanding of MIT's needs and potential.

"We are beginning this search within our own community," President Gray wrote in a memorandum sent to faculty members. "I will welcome applications from within MIT and suggestions for able candidates known to you within the Institute or outside, especially persons with the right qualifications who know MIT well."

"With the planning already begun for a major capital gifts campaign, selection of the right person becomes doubly important. The man or woman holding this position is responsible for the development program of the Institute, including the Industrial Liaison Program and the offices associated with Institute-wide development. A key task is providing direction to the professional staff of the Institute fund-raising efforts.

"The vice president must work with and coordinate the activities of all those engaged in fund raising, a complex and demanding task during a campaign, involving members of the Corporation and Corporation committees, the chairman, the president, the provost, the Alumni Association, the deans, department heads, and individual members of the faculty," President Gray said in his memorandum to the faculty.

Applications to the President from members of the community should include a resume and a personal statement indicating the reason for the interest in the position. Suggestions of possible candidates, giving the basis for the recommendation, can also be made by letter to President Gray.



500 wooden toy crayon trucks destined for Cambridge and Boston hospitals and orphanages surround a Christmas tree at the Phi Delta Theta fraternity house. The toys—the crayons fit into the holes in the truck body—were fashioned from blocks of wood at MIT's Hobby Shop by the fraternity members for Christmas distribution to ill and needy children. Anthony J. (Tony) Colonna of Staten Island, N.Y., second left, a junior majoring in mechanical engineering, organized the project, which was sponsored by the MIT Community Service Fund. Three other "Santa's Helpers" with him, from the left, are D. Scott Baird of Annandale, Va., Stephen P. Emeott of White Bear Lake, Minn., and Ronald T. Dagostino of East Northport, N.Y. Last year, the fraternity members distributed 250 toy trucks, tugboats and airplanes at Christmastime.

—Photo by Calvin Campbell

Office Assistant

Administrative Assistant, Program in Science, Technology and Society, to perform administrative and secretarial duties for the Program in Science and Technology for International Security. Will maintain research accounts, monitor monthly accounting statements, and prepare yearly budget projections; type and proofread research papers (some technical), manuscripts, proposals and correspondence; order supplies, arrange travel, copy, answer phones, and file. Also responsible for ordering books, journals, and research papers for research library, as well as maintaining the library. Strong interpersonal skills important because of frequent interaction with faculty, students, and visitors. College background and knowledge of MIT preferred. Ability to work under pressure, and prioritize essential. Minimum 4.5 years direct/related experience required. S85-146

Accounting Assistant, Comptroller's Accounting Office, to perform internal cost audits of research contracts and grants; coordinate accounting, audit and cash flow functions with Office of Sponsored Programs, MIT Departments, and schools. General business education with 3-5 years of accounting experience or BA in Accounting or equivalent combination of formal education experience. Must be able to communicate well with personnel from other MIT departments and representatives of outside sponsors. S85-124

Administrative Assistant, Urban Studies and Planning (Environmental Planning and Design Program), to provide administrative support for joint programs in the Departments of Architecture and Urban Studies and Planning where extensive coordination is necessary to ensure that the program functions effectively. Will coordinate the subject offerings in the area including assisting in the search for appropriate faculty; scheduling offerings; monitoring offerings in terms of overlap and integration; preparing analyses of enrollments in subject and suggesting revisions to curriculum. Will manage communication of program including creating and distributing publicity to potential students and those enrolled; preparing and maintaining integrated catalogue of course offerings; answering inquiries; organizing and publicizing lecture series and special events; and connecting students with faculty appropriate to their interests. Will administer affairs of the program including coordinating group's participation in admissions proceedings, typing class notes, correspondence, manuscripts, and articles. Will copy, answer phones, maintain files, and distribute mail. Will perform additional duties as requested. Good interpersonal skills with prior administrative and office experience preferred. Excellent typing skills and familiarity with word processing and/or willingness to learn essential. NON-SMOKING OFFICE S85-123

Office Assistant, Whitaker College — Center for Biological Information Processing (part-time), to report to Co-director of small interdisciplinary research group. Duties will include organizing weekly seminar series, making travel arrangements, answering phones, copying, handling reprint requests and library searches, and providing for Center staff and visitors as needed. Good command of written and spoken English, affinity for dealing with international visitors and ability to type 45 wpm essential. Willingness to learn computer text-editing, electronic mail systems and MIT accounting procedures desirable. Minimum 1 year direct/related experience required. (20 hrs/week flexible) S85-135

Receptionist, Student Financial Aid Office, to communicate Financial Aid information to students, staff, parents and other visitors both on the telephone and in person. Will be responsible for all student interview scheduling and work with the aid officers to be sure they are informed of their schedules; keep abreast of the ever-changing Student Financial Aid

rules and regulations and interpret policy. Will maintain files and assist aid officers in locating student information when requested. Responsible for all student information sheets and handouts containing current, correct information. Will process all incoming and outgoing mail, maintain postage machine; process financial aid transcripts and GRE and grad school application fee waivers; assist with special tasks and projects as assigned. Good communication and organizational skills preferred. Knowledge of financial aid and an academic setting helpful. Ability to work well under pressure necessary. Some typing skill required. Experience in dealing with the public as well as some college and work experience desirable. Minimum 1 year direct/related experience required. NON-SMOKING OFFICE S85-127

Head Custodian, Endicott House (Dedham, MA), to perform routine maintenance, cleaning and repairs of the heating, air-conditioning, plumbing and electrical systems. Will direct 4 employees in the general cleaning of Endicott House and Brooks Center. Will perform light painting, carpentry and general repairs; assist housekeeping department with heavy duty vacuuming and cleaning, washing, and waxing floors. Help grounds crew when necessary; control distribution of keys and maintain locks. Perform regular cleaning of fire and smoke alarms, check fire extinguishers, clean ice machine filters; oil all motors, control light timers, run errands for all departments and will be on emergency call when necessary. High School diploma and general experience in the areas of electrical work, plumbing, heating, air conditioning and carpentry preferred. S85-143

Service Assistant, Endicott House (part-time), to walk and record a 25-station watch covering Endicott House and Brooks Center. Will look for and take corrective action for unusual activity, including unlocked doors, lights and electrical equipment left on, etc., and log each incident at the end of the watch. Understand operation of fire and security alarm systems, as well as procedures pertaining to management, MIT Campus Police, Dedham Fire and Police Departments. Understand emergency health and accident policies and procedures, answer switchboard when not on rounds of the buildings, notify guests of emergency calls, and perform general administrative tasks as directed. High School diploma, knowledge of first aid, fire and other emergency procedures desired. Good verbal and written skills, good physical condition, and typing required. Excellent interpersonal skills necessary. (will work 2 nights midnight to 8am) S85-141

Service Assistant, Endicott House, to walk and record a 25-station watch covering Endicott House and Brooks Center. Will look for and take corrective action for unusual activity including unlocked doors, lights and electrical equipment left on, etc., and log each incident at the end of the watch. Understand operation of fire and security alarm systems, as well as procedures pertaining to management, including MIT Campus Police, and Dedham Fire and Police Departments. Knowledge of emergency health and accident policies and procedures necessary. Will answer switchboard when not on rounds of the buildings, and notify guests of emergency calls. Perform general administrative tasks as directed. High School Diploma and knowledge of first aid, fire and other emergency procedures desirable. Good interpersonal, verbal and written skills necessary. Must be in good physical condition. Some typing required. (will work 5 nights, midnight to 8am) S85-140

Service Staff

Technician B (E-M), Plasma Fusion Center, to assist in laboratory or research work and operate experimental and technical equipment under the supervision of scientific personnel or technicians of a higher grade. Must be able to work for periods of time without supervision. Will work in the TARA Vacuum Shop assisting in the maintenance, fabrication, installation and modification of parts and equipment for a high vacuum system and experimental apparatus. This position requires good mechanical skills, the ability

to read engineering drawings and familiarity with basic machine shop tools and practices as well as basic electronics. Graduation from a two-year day technical school or its equivalent in applicable experience is the minimum experience required. H85-313

Technician A (E-M), Electrical Engineering and Computer Science — Microsystems Technology Laboratories, to assist in laboratory, research, or analytical work under the direction of scientific personnel. Will operate highly technical experimental apparatus, and have demonstrated considerable skill and good performance in the particular field of activity. Will require some supervision. Will be assisting in various aspects of the photolithographic and photo-masking areas; this includes the process development, operation, and maintenance of optical pattern generators, photo-resist coaters and developers, wafer and mask step and repeat systems, wet-etch related semiconductor processing equipment. This position requires the ability to work with sophisticated measurements equipment such as microscopes, line width measures, development rate monitor, SEM's and to gather data from this equipment and enter it into a CAF system. The individual must be able to keep accurate laboratory notes, maintenance logs, and assist in the preparation of process documentation. Will be working in a state-of-the-art semiconductor fabrication area and will be required to follow strict procedures regarding cleanliness and the safe handling of gasses and chemicals. The individual must possess willingness to be flexible regarding temporary tasks or when needed to provide technical support outside of the designated area such as building support systems. Graduation from a two-year day technical school or its equivalent and a minimum of two years applicable experience are required. Experience with microprocessor controlled equipment desirable. H85-312

Technician A (E-M), Microsystems Technology Laboratories, to assist in laboratory, research, or analytical work under the direction of scientific personnel. Will operate highly technical experimental apparatus, and have demonstrated considerable skill and good performance in the particular field of activity. Will require some supervision. Will be assisting in various aspects of the thermal processing area, this includes the process development, operation, and maintenance of diffusion and oxidation furnaces, LPCVD deposition systems, chemical cleaning stations, and other related semiconductor processing equipment. Requires the ability to work with sophisticated measurement equipment such as microscopes, conductivity probes, CV plotters, and to gather data from this equipment and enter it into a CAF system. Must be able to keep accurate laboratory notes, maintain logs, and assist in the preparation of process documentation. Will be working in a state of the art semiconductor fabrication area and will be required to follow strict procedures regarding cleanliness and the safe handling of gasses and chemicals. Must possess willingness to be flexible regarding temporary tasks or when needed to provide technical support outside of the designate area such as building support systems. Graduation from a two-year technical school or its equivalent and minimum of two years of applicable experience are required. Experience with microprocessor controlled equipment desirable. H85-311

Houseman/Housekeeper, Housing, to be responsible to the House Manager. Will perform all duties associated with general cleaning in housing facility. This includes cleaning and waxing floors, washing of wall surfaces and windows (inside), vacuuming of floors, carpets, drapes and upholstery and dusting. Will spot clean carpet and upholstery as directed by supervisor. Will clean bathrooms, showers and kitchen appliances. Will service rooms when necessary including the making of beds, emptying waste baskets and distributing soap and towels. Will strip, refinish and buff floors using power equipment, and dispose of trash and rubbish. Must be physically able to perform tasks outlined and be familiar with the use of cleaning equipment both power and hand. H85-309

An MIT professor emeritus and an alumnus have received two of the first three Kyoto Prizes, designed to reward accomplishments in fields not covered by the Nobel Prizes. Cash prizes of approximately \$200,000 each went to Dr. Claude E. Shannon, Donner Professor of Science and professor of mathematics and electrical engineering, emeritus, and to Dr. Rudolph E. Kalman (SB '53 and SM '54, electrical engineering), a professor at both the University of Florida and the Swiss Federal Institute of Technology in Zurich.

Dr. Shannon, founder of the basic mathematical theory of communications known as "information theory," received the first Kyoto Prize in "Basic Sciences." Dr. Kalman received the prize in "Advanced Technology" for his work in control engineering and system theory.

The prizes are sponsored by the Inamori Foundation, founded by Kazuo Inamori, president and chairman of Kyocera Corporation of San Diego, with a personal endowment of \$100 million in 1984. The company is the world's largest manufacturer of technical ceramics. The prizes are named for the city that helped spawn his business, and the award ceremony was held there in November.

Kenneth J. Cerino, MIT's sports publicity director, gets several requests each week for information on MIT teams. But he was a bit surprised this month to get a letter from France, from someone who signed himself "a young French friend and fan," asking for photos of the men's and women's basketball teams. "It's nice to know we have an international following," Ken commented.

MIT Professor Eugene B. Skolnikoff, in his role as chairman of the board of trustees of the German Marshall Fund of the United States, has hailed the recent \$40 million grant to the fund from the West German government. "It's a recognition of the value and performance of the fund in its first 13 years," he said, "and will make possible the establishment of a permanent fund of about the same size." It will also bring new emphasis to bear, he said, "on German-American relations, which are so important."

The fund is an independent American institution created in 1972 by a gift from the Federal Republic of Germany as a memorial to the Marshall Plan. Its programs deal with a broad spectrum of interest to Americans and Europeans. It has made 2,650 grants totaling more than \$37 million. Dr. Skolnikoff, professor of political science and director of the Center for International Studies, has served on

the White House staff in the Science Advisor's Office in the Eisenhower and Kennedy administrations, and was a senior consultant to President Carter's science advisor.

Mark Harvey, lecturer in music, recently presented a paper on "Charles Ives and American Civil Religion" at the annual meeting of the American Academy of Religion. He also was recently named a Fellow of the Society for the Arts, Religion and Contemporary Culture.

PRESS CLIPPINGS:

—A Fortune magazine article on professors who work on Wall Street notes that the Sloan School's Fischer Black is prominent among them and, as the first academic hired by Goldman Sachs & Co., was a trendsetter. The academic "heavy-hitters" are "more than mere window-dressing," the magazine states, quoting a corporate finance consultant as saying, "They add real value, not just fluff. You're talking about the Jackie Robinsons and Babe Ruths of understanding financial markets."

—Dr. Herman Feshbach, Institute Professor and professor of physics, figures prominently in a Boston Phoenix feature on the American Academy of Arts and Sciences. Professor Feshbach, the academy president, told the newspaper, "We can indulge ourselves in doing projects which are not necessarily the agenda of universities or the government."

—The Associated Press and other news outlets gave national distribution to a letter to the British journal Lancet by MIT's Richard J. Wurtman in which he noted that three people suffered their first epileptic seizures after drinking large quantities of beverages sweetened with aspartame. While acknowledging that the association could have been coincidental, Dr. Wurtman, professor of neuroendocrine regulation, said doctors should question patients with unexplained seizures about their use of the artificial sweetener. He has long been concerned about the widespread use of aspartame and has urged the government to require label notices about aspartame content.

(Do you have something to contribute to Here & There? We're on the lookout for short items, preferably of a personal nature. They can be sent to Here & There, News Office, Rm 5-111.)

Dresselhaus is Institute Professor

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appointments in physics as well as electrical engineering and computer science. She is affiliated as well with the Center for Materials Science and Engineering which she directed from 1977-83, and with the Francis Bitter National Magnet Laboratory. From 1972-74 she was associate head of the Department of Electrical Engineering and Computer Science for electrical engineering.

Born in Brooklyn, N.Y., Dr. Dresselhaus received the BA degree from Hunter College in 1951. Following a year as a Fulbright Fellow at Cambridge University, England, she entered Radcliffe College where she earned the MA degree in 1953. She received her PhD degree in 1958 from the University of Chicago where she had held a Bell Telephone Laboratory Fellowship.

Dr. Dresselhaus was an NSF Postdoctoral Fellow at Cornell University, 1958-60, and a staff member at Lincoln Laboratory from 1960 until she came to MIT in 1967. For several summers she was a visiting professor at universities in Brazil, Israel, Japan and Venezuela.

She is the author or coauthor of more than

200 technical articles and papers, many written with her husband, Dr. Gene Dresselhaus, senior scientist at the Magnet Laboratory.

She serves on the visiting committees at The University of California, Berkeley, Harvard and the University of Chicago. She has also been active on dozens of committees of professional organizations and national commissions.

Professor Dresselhaus is a Fellow of the American Physical Society and was its president in 1984. She is also a Fellow of the American Association for the Advancement of Science and the Institute of Electrical and Electronic Engineers, a member of the National Academies of Engineering and Science and a senior member of the Society of Women Engineers and recipient of its 1977 Achievement Award.

Hunter College honored her with its Hall of Fame Award in 1972 and with an honorary ScD in 1982. Other honorary degrees have been conferred by Worcester Polytechnic Institute (1976), Smith College (1980) and New Jersey Institute of Technology (1984).

Professor Dresselhaus and her husband have four children and live in Arlington.

Widnall to be AAAS president

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an associate professor in 1970 and professor in 1974.

A specialist in the field of fluid dynamics, she received the Lawrence Sperry Award of the American Institute of Aeronautics and Astronautics in 1972 and the Outstanding Achievement Award of the Society of Women Engineers in 1975. She is a member of the National Academy of Engineering.

Professor Widnall serves on the board of directors of the Carnegie Corporation of New York City and Chemical Fabrics, Inc. She is a member of the Panel on Public Affairs of the American Physical Society; the US National Committee on Pure and Applied Mechanics; the Committee on Fluid Dynamics of the American Society of Mechanical Engineers; and the Advisory Committee to the Engineer-

ing Directorate of the National Science Foundation. In addition, she is associate editor of Physics of Fluids and The ASME Journal of Applied Mechanics.

In 1974, on a one-year leave of absence from MIT, Professor Widnall served as the first director of university research at the US Department of Transportation in Washington.

At MIT, Dr. Widnall has served on several key committees, including in 1969 the Commission on MIT Education, the Institute's first major reexamination of its curriculum and educational objectives since 1945.

She has been active in the Women's Forum at MIT and took part in a Carnegie Foundation study of ways to encourage women to enter nontraditional careers.

Professor Widnall and her husband, William S. Widnall, also an aeronautical engineer, have two children and live in Lexington.