Massachusetts Institute of Technology



January 5, 1972 Volume 16 Number 26

Cambridgeport Center Holds Grand Opening

The Cambridge Teen Center, a neighborhood recreation facility for young people in the Cambridgeport area, opened officially last Friday evening.

Development of the Teen Center was a cooperative effort of the Cambridge Recreation Department, Polaroid Corporation and MIT

About 200 persons -- neighborhood parents, representatives of the City of Cambridge, MIT and other involved organizations -- joined the teens in the opening festivities. Paul Cowles, director of the Cambridge Recreation Department, was master of ceremonies.

After giving a brief history of the development of teen centers in Cambridge, Mr. Cowles said, "We hope this teen center will be as successful as the other five, where young people have gotten together." He continued to outline the months of planning and con-

What To Do If It Snows

New Englanders welcomed 1972 with a cold, wet snowstorm last week. Winter is likely to stick around for quite a while, so here's a New Year's reminder about snow closings for the community.

The Institute has a telephone recording service with 20 outside lines to announce snow closings. We are all urged to call 868-2420. Do not telephone the switchboard or the Personnel Office. Regular Institute phone lines must be kept open for urgent calls.

Another source of reliable information is radio station WHDH (850 kc). Snow closing announcements are repeated frequently between 6:30 and 8:30 am.

For safety, security, shift operations, continuous experiments, etc., certain personnel are needed even when the Institute is officially closed. If you are one of these, you are responsible for getting your instructions directly from your supervisor, regardless of general announcements.

An announcement affecting employees does not in itself affect academic activities. Normally announcements will state whether or not classes have been cancelled.

Pick Up Credit Cards For IAP

Students who want academic credit for/IAP activities should pick up subject credit cards in the Registrar's Office (Room E19-335) or the Information Center (Room 7-111). These cards should be submitted to the Registrar's Office as early as possible during IAP to facilitate recording credit.

struction which led to the opening of the Center.

Walter A. Milne, assistant to the chairman of the MIT Corporation, expressed the Institute's pleasure in participating in the teen center project. He presented the Center with a plaque on which to engrave the name of the "Teen of the Year." He then gave a large key to Joseph Gibson of Folaroid Corporation signifying the opening of the Center. The key was passed from Mr. Gibson to representatives of Cambridge, the Recreation Department, the Cambridgeport Planning Team and finally to the teens themselves. After a brief ribbon-cutting ceremony, the gathering enjoyed refreshments followed by dancing.

Polaroid, which rents the property from MIT, offered 3,600 square feet of warehouse space on Henry Street for the Teen Center. The City of Cambridge funded the project and awarded the construction bid to William West of Mattapan, a member of the Contractor's Association of Boston (CAB). Peter Bruckner, a fifth year architecture student at the Institute, was instrumental in designing the overall facility. MIT Physical Plant engineers drew up design preliminaries and construction documents and also served as on-site consultants.

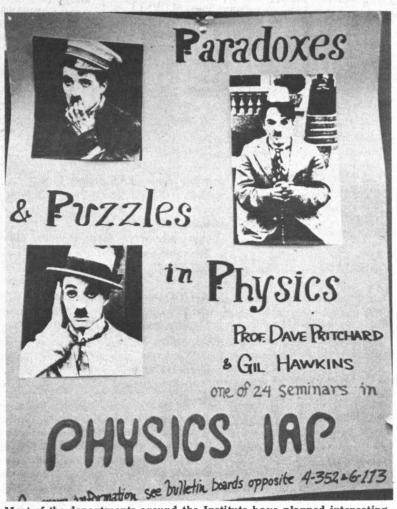
Despite the work of several organizations, the teens deserve a great deal of credit for the Teen Center. They initiated the project almost two years ago and were involved in all aspects of planning and development. Now that the Center is open, they are responsible for maintaining and improving it. The young people are now busy painting murals on the walls and planning activities for their new gathering place.

Check Cashing To Have 15° Fee

Beginning February 1, there will be a 15 cent charge for cashing each personal check in the Bursar's Office (Room 10-180), and personal checks will no longer be cashed in E19-215.

This announcement was made by Paul V. Cusick, vice president for business and fiscal relations. "We are sorry to impose the fee," Mr. Cusick said, "but the expense of running the service has to be offset. We gave some consideration to eliminating the service altogether, but decided that people would probably prefer to pay for the convenience. However, there are four branches of local banks located in the vicinity of the Institute, and I am sure they will offer their services to the community."

In addition to the expense of running the cashier's office, the Institute must also pay for the delivery of cash and underwrite the forgeries which last year amounted to \$3,000.



Most of the departments around the Institute have planned interesting and unusual offerings for IAP as this poster shows.

Food Scientists Publish Cancer Research Results

Institute Food Scientists have shown that certain chemicals found in food--including a type of chemical found in some nitrogen fertilizers--can be made to combine in a test tube into a compound known to cause cancer in rats.

In an article appearing in the December 24 issue of Science magazine, the MIT researchers said they have no evidence that the cancer-causing compound they can produce under carefully controlled laboratory conditions actually occurs in the environment.

"It remains to be determined whether these reactions actually take place in foods or the mammalian stomach, and to evaluate their significance in the incidence of human cancer," they said.

The researchers included Professor Steven Tannenbaum of the Department of Nutrition and Food Science and three members of his laboratory staff, Dr. Michael C. Archer, Stephen D. Clark, graduate student in the chemistry department and Joan E. Thilly, an undergraduate student at Juniata College, Huntingdon, Pennsylvania, who worked at the Institute last summer.

The research project is part of a larger departmental effort to determine the biological effects, if any, that can be attributed to tiny traces of various classes of chemicals in food. The project is supported by the National Institute of Environmental Health Sciences, the National Cancer Institute and the National Meat Institute Foundation.

The compound that produces cancer in rats is known as N-nitrososarcosine. Experiments elsewhere have shown that this

compound is weakly carcinogenic among rats, producing a form of cancer of the esophagus when fed over a long period of time. The compound belongs to a larger family of substances known as nitrosamines.

The MIT researchers began with creatine and creatinine, two compounds associated with muscle contraction, and with nitrite, a

(Continued on page 3)

IAP Starts 2nd Year

The 1972 Independent Activities Period officially begins today. A host of seminars, lectures and mini-courses ranging in subject matter from fly tying to yoga and from history to computer programming are scheduled between now and the close of IAP on January 28.

This is the second year of a three year experiment studying the usefulness of a low-key period of relaxed study, research and fun for the MIT community. IAP provides students with a large number of potential courses of study, both inside and outside their departments, but without the accompanying pressure of the normal semester. In addition a wide variety of activities are scheduled during lunch hours and after 5 p.m. so that MIT's staff members and employees may participate.

Although not required to do so, more than three-quarters of the student body returned to the campus for last year's IAP. This year, with a much wider range of scheduled activities, the number is expected to be as high or higher.

All members of the community are encouraged to participate in activities which suit their schedules and interest them. IAP Guides and Schedules listing all the activities presently planned are available in the Information Center, Room 7-111.

Today is the last day for students to inform the Registrar's Office if they want their grades mailed to an address different from their home address. Grade reports will be mailed on January 7.

MIT Linear Accelerator Achieves 20mev In Test

MIT's new linear accelerator (LINAC) in Middleton has generated its first electron beam.

The 20 million electron volt (mev) beam was achieved just before Christmas and demonstrated that the facility, when completed a year from now, will work as planned.

"We now know that the designs and components are technically feasible," said Professor Peter Demos, director of the Laboratory for Nuclear Science which is building and will operate LINAC. When completed, LINAC will have an eventual beam energy of 400 million electron volts.

LINAC is being built with funds and assistance from the Atomic Energy Commission. It will be used not only by scientists from the Institute, but also by researchers from other universities and laboratories throughout the country in probing the structure and other fundamental properties of the atomic nucleus.

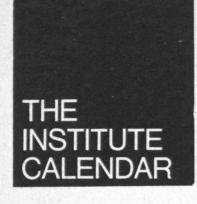
In a telegram to Dr. James R. Schlesinger, chairman of the AEC, Professor Demos said:

"I am pleased to inform you that we have reached a significant point of achievement in the construction of the LINAC. Although the 20 mev beam energy attained is a small fraction of the full goal, demonstration of a high intensity beam at this energy required application of all novel features at the accelerator, showing the design to be successful and practical."

In ceremonies scheduled for next year, LINAC will be named for the late US Representative William H. Bates of the Sixth Massachusetts Congressional District, which includes Middleton. Congressman Bates served as a member of the Joint House-Senate Committee on Atomic Energy before his death in 1969 and was closely identified with the LINAC project from its incention.

The accelerator consists of a 600foot underground tunnel containing a pipe-like wave guide. Electrons are injected at one end by a newly designed electron gun, and then captured and clustered on the crests of radio waves that are fed

(Continued on page 4)



January 5 through January 14

Please send changes or corrections for IAP and Spring Term calendar listings to the Calendar Editor, Room 5-111, Ext. 3279. Listings that are not changed will continue to appear as they have.

Seminars and Lectures

Wednesday, January 5

Development of the Biomedical/Biochemical Program in the Chemical Engineering Department.

Prof. E. W. Merrill and Prof. C. K. Colton, chemical engineering. IAP Seminar. 11am-12n. Rm 12-142.

The Effect of Modern Society on Technology*

Prof. Gordon S. Brown, electrical engineering. Humanities Seminar. 3pm, Rm 14E-304.

Thursday, January 6

Library Usage Seminar**

Discussion on use of reference materials as a means of locating information on a given subject. 10:15pm, Orientation Rm, 5th floor Barker Engineering Library. Call X7745.

Monte Carlo Trajectory Calculations of the Recombination and Dissociation of Three-Body Systems*

Ven Hao Shui, doctoral thesis presentation, mechanical engineering. 3pm, Rm 3-343.

Friday, January 7

Development of a Synthetic Articular Cartilage Material for Joint Surgery

Jim Bray, graduate student, chemical engineering. IAP Seminar. 11am-12n. Rm 12-142.

Monday, January 10

Conversion of Prothrombin into Thrombin**

Prof. David Waugh, biophysics. Harvard/MIT Biomaterial Seminar. 4pm, Rm 14E-311.

Tuesday, January 11

Library Usage Seminar**

Discussion on use of reference materials as a means of locating information on a given subject. 3:15pm, Orientation Rm, 5th floor Barker Engineering Library. Call X7745.

Synchrotron Radiation Emission from Pulsars

Dr. B. Eastlund, AEC. Astrophysics Seminar. 4:15pm, Rm 37-212. Coffee, 4pm.

Thursday, January 13

Structure and Function Relationships in Bacterial Membranes*

Dr. Milton R. Salton, School of Medicine, New York University. Nutrition and Food Sciences Seminar. 4:15pm, Rm 9-140. Coffee, 4pm.

Student Meetings

Student Information Processing Board Meeting Every Monday, 7:30pm, Rm 39-200.

Thursday Staff Meeting**

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

Technique Staff Meeting

Every Saturday, 11am, Student Center Rm 457.

ERGO Staff Meeting

Every Sunday, 6pm, Student Center Rm 443.

MIT Club Notes

Book of the Week*

Informal discussion over dinner of *Problems of Knowledge* and *Freedom* by Noam Chomsky. Wednesday, January 5, 5:15-7:15pm, Ashdown Dining Hall (table near door). Call James Snell, 523-1198.

Tech Model Aircrafters*

Flying session. Saturday, January 8, 3-6pm, duPont Gym.

Choral Society**

Rehearsal. Monday, January 10, 7:30pm; main stage, Kresge. New members, particularly sopranos and altos, are invited. Call X3830.

White Water Club**†

Pool session. Tuesday, January 11, 8-10pm, Alumni Pool.

Book of the Week*

Informal discussion over dinner of *Beyond Freedom and Dignity* by B. F. Skinner. Wednesday, January 12, 5:15-7:15pm, Ashdown Dining Hall (table near door). Call James Snell, 523-1198.

MIT Club of Boston***

Luncheon meeting. "The Future of Mass Transportation" by **Prof. Alan Altshuler**, Massachusetts Secretary of Transportation. Thursday, January 13, 12:15-1:30pm, Aquarium Restaurant, 100 Atlantic Ave.

Baker House SPAZ Jogging Club**

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

Hobby Shop**

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

MIT/DL Duplicate Bridge Club**

(Note time change for Sunday games.) Every Sunday, 2:30pm, Walker Blue Rm. Every Thursday, 6pm, Student Center Rm 491.

Classical Guitar Society**

Every Monday and Thursday, 3:30-7:30pm, Student Center Rm 491.

Outing Club*

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

Fencing Club**

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

Tiddlywinks Association*

Every Wednesday, 8-11:15pm, Student Center Rm 407.

Soaring Association*

Ground school, first Thursday every month; general meeting, third Thursday every month. 7:30pm, Student Center Rm 473.

Science Fiction Society*

Every Friday, 5pm, Rm 1-236.

Student Homophile League*

Meeting and mixer. Every Friday, 7:30pm, Mission Church, 33 Bowdoin St, Boston.

Muddy Charles Pub**

Join your friends at the Muddy Charles Pub, 110 Walker, daily 10:30am-7:30pm. Call X2158.

Friday Afternoon Club**

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

Dance

Turkish Students Club*

Folk dance practice. Every Sunday, 4-7pm, Student Center Rm 473.

Folk Dance Club*

International folk dancing. Every Sunday, 7:30-11pm, Sala de Puerto Rico.

Tech Squares*

Every Tuesday, 8-11pm, Rm 10-105. Call dorm X0888 or 492-5453.

Modern Dance Technique Class**

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

Dance Workshop**

Modern dance classes in McCormick Gym: elementary; Tuesdays, Thursdays, 10am, 2pm; intermediate, Tuesdays, Thursdays, 12n; general, Thursdays, 7pm. Admission: \$2 for community, free for students. Call Cha-Rie Tang, dorm X0908.

Folk Dance Club*

Folk dance classes. Every Tuesday and Thursday Student Center Rm 407.

Folk Dance Club*

Folk dancing. Every Tuesday, 7:30-11pm, Student Rm 407.

Folk Dance Club*

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

Exhibitions

Heaney Exhibit*

Exhibition of paintings and drawings by Tom through mid-January at the Hayden Gallery.

Exhibition of Paintings by Susan E. Schur On display at the Faculty Club through mid-Januar

Photographs by Josh Collins*

On display in the Rotch Library through February

Art LaZar Exhibition*
Creative Photography Gallery (3rd floor duPon 12n-7pm, through February 1.

The Art of Rigging and Buoy System for Air-Sea Hart Nautical Museum, Bldg 5, 1st floor.

Main Corridor Exhibitions*

Presented by students and departments. Bldgs 7, 3,

Athletics

Varsity Hockey*

Queens College. Saturday, January 8, 7pm, Skati

eselvacional ese

colored ut has placed

Freshman Basketball*

Phillips Exeter Academy. Wednesday, January Rockwell.

Varisty Hockey*

Lafayette. Friday, January 14, 7pm, Skating Rink.

Religious Services and Activiti

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

Roman Catholic Mass*

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

Christian Worship Service*

Every Sunday, 11am, Chapel.

Christian Discussion Group*

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

Hillel Religious Services*

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

Christians for Dinner*

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

Praying, Singing, Sharing Meeting*

United Christian Fellowship. Every Tuesday, 7-8p Campus Lounge.

Christian Science Organization*

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

Christian Bible Discussion Group*

Every Wednesday, 12:15pm, Rm 4-343; Every T 12:15pm, Rm 20B-031. Call Prof. Schimmel, X Ralph Burgess, X2415.

Islamic Society Prayers*

Every Friday, 1pm, Kresge Rehearsal Rm B.

Vedanta Services*

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

Free Draft Counselling*

Hillel, 312 Memorial Drive, X2982. Call or visit 10

Announcements

Art Appreciation

IAP lunch hour talks on art appreciation with slides. First meeting, Wednesday, January 5, 12n, Rm 56-608. Bring your lunch.

Ground School*

IAP course in preparation for written private pilot examination. First session, Wednesday, January 5, 8:45-11:30am, Rm 20E-017. Call Prof. James Moran, X7485 or X7488.

National Teacher Examinations

Exams will be given at Boston University, Boston College and UMass/Amherst on January 29 and April 8. Information and registrion forms available in Student Placement Bureau, Rm E19455, X4733, or directly from National Teacher Examinations, Box 911, Educational Testing Service, Princeton, New Jersey 08540.

Send notices for January 12 through January 21 to the Calendar Editor, Room 5-111, Ext. 3279, by noon Friday, January 7.

- *Open to the Public
- **Open to the MIT Community Only
- ***Open to Members Only
- †Freshmen encouraged to attend

Outdoor Sculpture By Pepper Given By Anonymous Donor

À ground-hugging sculpture of overlapping planes has been given to the Committee on the Visual Arts by a donor whose name will be announced at a later date.

Beverly Pepper constructed and welded the corten-steel piece, entitled "Dunes," in a Cambridge foundry earlier this year. After she completed her work, members of the Committee on the Visual Arts, including President Jerome B. Wiesner, Provost Walter Rosenblith and Committee Chairman Professor Wayne Andersen viewed the piece at the foundry. According to Professor Andersen, the Committee decided, "the sculpture would be an important addition to MIT's visual environmant."

Before being installed in a temporary location in Compton Courtyard on December 14, "Dunes" was included in a 22 piece Beverly Pepper exhibit at Parker 470 Gallery, Boston. After the Parker 470 show closed, "Dunes" was transported to MIT and installed at the expense of the Gallery. A permanent site on the campus is now being selected by the Committee on the Visual Arts and the Planning Office.

Beverly Pepper's works are in numerous collections throughout the United States and Europe. "Sudden Presence," a 12 ton corten-steel piece which took her two and a half years to complete, has recently been installed in the Boston City Hall Plaza.

Matrons Seek Volunteers For Spring Blood Drive

On March 7 the Sala de Puerto Rico will be transformed into a field of beds, thermometers, needles and friendly ladies. The 1972 Institute Blood Drive will begin its nine-day drive at 9:30 that morning.

The Red Cross Bloodmobile will be on campus from March 7-10 and 13-17. In preparation for this annual event, the Technology Matrons are soliciting volunteers to help the Red Cross nurses during the drive. Typists, temperature takers and helpers for the donor room and canteen are needed. The Matrons are also looking for registered nurses who would volunteer a few hours a day to record medical histories of potential donors.

The Red Cross has asked the Matrons to schedule 40 women a day – 20 each for the morning (9:30 am-1 pm) and afternoon (1-5 pm) shifts. Hopefully, all 360 positions will be filled by Friday, January 14, so please call the Matrons soon to volunteer for a suitable time and job.

Anyone who can work the week of March 7-10 should call Mrs. Ruth Smullin at 924-3340 between 5 and 9 pm. Those who prefer to work the week of March 13-17 should call Mrs. Elaine Horn at 868-6407 between 5 and 9 pm.

Hughston Named To Be 1972 Rhodes Scholar

Lane P. Hughston, 20, a junior in physics from Dallas, Texas, has been awarded a Rhodes Scholarship that will enable him to work for a Doctor of Philosophy degree at Oxford University, England, beginning in October 1972.

Hughston, a 1969 graduate of Hillcrest High School in Dallas, is at Princeton University as a special graduate student in theoretical physics under the Institute's "Domestic Year Away" program. While there, he has been lecturing on "Recent Developments on Quantization of Gravity" for Princeton's Special Topic Lecture Series. Hughston is also interested in linguistics, which he plans to study at Oxford while majoring in theoretical physics, and in music. Hughston plays the horn with the MIT Symphony Orchestra, and has composed many pieces for piano and for small chamber groups.

Nitrosamines:

Cancer Link?

(Continued from page 1)

acts with other compounds.

chemical substance that easily re-

Creatine and creatinine are

nitrogen compounds normally

found in muscle tissues, milk,

blood, vegetables and certain

Nitrates and nitrites are found

naturally in food and are also

frequently used as preservatives

and to fix colors in processed foods.

Moreover, the MIT researchers

said, wide use of nitrates in fer-

tilizers can produce high nitrate

levels in plants and water supplies

and certain bacteria present in

nature are able to convert nitrates

Professor Tannenbaum and his

colleagues were interested in these

substances because they are often

eaten together as part of a normal

In their laboratory, the MIT

researchers were able to cause

creatine to react with nitrite in the

test tube to produce the cancer-

causing nitrosamine, N-nitrososar-

Ashdown House

Space Available

graduate

office, Ext. 2963.

Several openings for single

available in Ashdown House

for the spring term. Students

interested in living in the

graduate residence should

apply as soon as possible. Call

or visit John Woodbury, house

manager, in his Ashdown

students are

into the more reactive nitrites.

He is the son of Mr. and Mrs. Edward W. Hughston of Dallas. he has two brothers - Mark, a freshman at Southern Methodist University and Tommy, an eighth grader in Dallas.



It may be snowing outside, but signs of spring are popping up around the Institute. The Planning Office has placed large pots of lush green plants in several lobby areas to remind passersby of warmer days.

The planters are intended to enhance the interior environment of the Institute during the winter. Located in the lobbies of Buildings 9, 13 and 18, the large white pots contain such greenery as prayer plants, pothos, Norfolk pines and ferns.

Harry Portnoy, senior architect in the Planning Office, says, "This is really an experiment. We want to find out how the plants survive as well as how the community reacts to them. We hope members of the community enjoy seeing a breath of spring as they walk through the lobbies."

He continues, "We want to emphasize, however, that the plants are for everyone's benefit. When would-be green thumbs start taking small twigs or cuttings from the plants, we'll have to stop the experiment. Many of the plants are quite expensive and we wouldn't be

Cherry Gets New Post

George Cherry, formerly deputy associate director of the Draper Laboratory, has been appointed deputy associate administrator in the Office of Advanced Research and Technology at the National Aeronautics and Space Administration.

Mr. Cherry joined NASA a year ago. In his new post he will be responsible for programs dealing with shuttle technologies, aeronautical operating systems, military aircraft, and experimental transport.

While at the Draper Lab, Mr. Cherry was awarded NASA's Certificate of Recognition for his outstanding work in the development of the lunar module descent guidance equations.

German Study Posts Funded

The Alexander von Humbolt Foundation of Germany is offering post-doctoral research and teaching fellowships of six to twelve months length for research projects of the candidate's own choosing. Applications from scholars of all nationalities and academic disciplines will be considered.

Requirements include a doctoral degree, proof of at least two years of independent teaching or research at a university or research establishment, scholastic or scientific publications on the results of this work, and a good knowledge of German (although language courses are available). Candidates should be between the ages of 25 and 38.

Applications may be submitted at any time directly to the foundation or through a German diplomat or consular mission. Further information is available in the Foreign Study office, Room 10-303, Ext. 5243.

If the indoor plants survive the winter, the Planning Office will move them outside in the spring. For the time being, though, it's nice to see fresh greenery in an otherwise gloomy winter world.

Lifestyles To Be Matrons' Topic

The annual series of seminars sponsored by the Technology Matrons will focus this year on "Changing Lifestyles." The series will open next Wednesday (January 12) at 11:30 am in the Jackson Room (Room 10-280) with a discussion entitled "Is the American Family Giving up Child Rearing?"

Professor Lee Rainwater, principal investigator on the Research Program on Family Behavior and Social Policy at the Joint Center for Urban Studies, and Dr. Richard Rowe, director of the Massachusetts Early Education Project at Harvard, will lead the first seminar. Mrs. Jack R. Ruina will preside.

Future seminars and their topics are: "Alternative Living Arrangements" on February 9; "New Ideas inNutrition" on March 15; and "Reassessment of Electoral Politics" on April 5. All will be held in the Bush Room (Room 10-105).

All seminars in the series are open to any member of the community who would like to attend.

Libraries List IAP Feature

The libraries will feature a "browse and borrow" library in Room 7-106 during IAP as an effort to acquaint the Institute community with new acquisitions from all departmental libraries in an informal setting.

The browse and borrow room will open this morning and continue through January 28. Hours are Monday through Friday, 10 a.m. to 5:30 p.m. Further information is available at Ext. 5070.

TECH TALK

Volume 16, Number 26

January 5, 1972

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Mail subscriptions are \$7.50 per year. Checks should be made payable to Bursar, MIT, and mailed to the Editor, Room 5-111, MIT, Cambridge, Mass.

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

Who's New In The News

. . Dr. Charles Stark Draper received the 1971 John Scott Medal and prize from the City Trusts of Philadelphia for his work in developing the Apollo guidance and navigation systems. Governor Francis W. Sargent has

appointed Dean A. Horn, executive officer of the Sea Grant Project Office, to a special commission to study marine boundaries and resources in Massachusetts. . . Professor John W. Devanney, III, is the author of a text, Marine Decisions Under Uncertainty, developed for a new subject being offered at the Institute. . . Professor Bruno Rossi has received the Antonio Feltrinelli medal and prize from the Italian Academy of Sciences. . . Professor Gian-Carlo Rota of mathematics has been named a Fellow of the Los Alamos Scientific Laboratory.

LINAC Hits Early Goal

(Continued from page 1)

into the wave-guide from a radio frequency generator-transmitters spaced at intervals along the top of the tunnel.

The electron clusters gather momentum as they are accelerated down the wave guide, reaching velocities very near the speed of light at the exit end of the tunnel. The emitted beam is then passed near and through the target materials under study, and the resulting interactions used to explore the fundamental nature of nuclear structure and dynamics.



The young goalie, who has ample space in the net, warily eyes an opponent's scoring attempt during hockey practice on the MIT rink. The Winthrop Youth Hockey League--from peewees to juniors--used the rink daily during the Christmas holidays.

Tech Basketball Team Makes Florida Circuit

MIT's basketball team resumes its schedule this Saturday after a 28 day lay off.

The engineers meet Rollins College at Winter Park, Florida, Saturday night in the first of four games that Tech will play in the Sunshine State. Following the Rollins game, MIT will play Florida Institute of Technology at Melbourne on Monday, January 10. Coincidentally, the President of F.I.T., Jerome Keuper is a member of MIT's class of 1948. The team then travels to Ft. Lauderdale to meet Ft. Lauderdale University on January 12 and then to St. Petersburg on January 13, to play Florida Presbyterian.

The MIT hoopsters rendezvoused last Monday, at Melbourne, Fla. coming from destinations all over the country. The boys paid their own air fare to Florida and most of taken care of by guarantees provided by the host Florida colleges. Ironically, most of the team is from the southern United States, including two Floridians, co-captain Bill Godfrey of Ft. Pierce and Bob Roth of St. Petersburg. Senior Roger Teal from San Bernardino, California, gets credit for coming the furthest distance to play basketball this week.

The trip marks the second time that the MIT basketball team has been hosted by Florida colleges. Last winter, MIT played in the Sunshine Classic hosted by Florida Presbyterian.

The team will have five days of practice to get the kinks out, before Saturday's game. MIT last played on December 11, when they lost to Trinity, 80-75. The defeat evened their record at 2-2.

Congressional Report Prepared By Students

MIT students together with several from neighboring schools are the authors of a recently-issued Congressional report on national land use policy.

Senator Henry M. Jackson (D-Wash.), chairman of the Senate Committee on Interior and Insular Affairs, has sent the report, which was prepared for the Committee, to members of Congress and others interested in the pending national land use bill. Title of the report is "Papers on National Land Use Policy Issues."

Senator Jackson called the report "a unique experiment in academic involvement in public decision-making."

"A major cause of discouragement in contemporary society," he said, "has been the lack of adequate opportunity for serious and responsible young people to make meaningful contributions in important public decisions."

The MIT land use policy project was directed by Professor Carroll L. Wilson of the Sloan School of Management, under the auspices of his Project for the Social Application of Technology, and by

Michael Telson a graduate student in electrical engineering, project Study Director. It was begun in the spring of 1970 with students and faculty at MIT and other universities in the Boston area, including Boston University, Tufts University and the Woods Hole Oceanographic Institution.

"The project was created as a vehicle for students and faculty to become involved in an interactive fashion with members and staff of the Senate Interior Committee and the Congressional Research Service on a major issue of national

importance," Wilson said.
In his letter of transmittal accompanying the printed report, Senator Jackson wrote: "Graduate students in every university, who possess considerable training and ability, are obliged to conduct research which often has little relevance or utility beyond that of perfecting their scholarly and disciplinary skills. Legislative bodies, particularly those in the States, are chronically hampered by the lack of specialized, technical staff support to perform research on pending issues."

Foreign Study Offered

Brochures describing a study University of Manchester in program on "Environmental and Social Planning in Britain" are available in the Foreign Study

The month-long program, which will begin on June 28, is being sponsored by the Institute of International Education and the

England. The course is designed for graduate students and professionals and will include lectures, seminars and extensive field trips.

For more information, call or visit the Foreign Study Office, Room 10-303, Ext. 5243.

CLASSIFIED

For Sale, Etc.

Olympia port typwr, pica; oriental rugs; milk glass; books: psychology, government, novels. Call 491-6434!

Varnished wd tbl, 15x32x60" long, perf for hall, \$20. Call 354-6566 evgs.

Br new Bancroft tennis racket, new \$18, asking \$10. Bushan, X6231 or 354-8164 evgs.

Pr VW snows, 6.50x15, nrly new, \$20. Bill, X5773 Linc.

Alum bed frame w/foam matt, \$15; fiberglass ch, \$5. Dietrich, X6747 or 492-6922.

Paramount bowling balls, candle & duckpin, engraving done, also bowling bags, gd prices. X7522.

Lady's Koflach buckle boots, 9XN, pile lined, worn twice, \$45. Linda, X6187.

Sears XST 7.75x15 snows, used 1 seas, \$15/pr; mtd on Volvo rims, \$40/pr. Sam, X6989.

Woman's figure skates, 51/2, worn 1 wk, \$15. X2572 or 461-8748 evgs.

Eico Cortina 70 watt stereo amp, exc cond, \$45. Aldrich, X5360.

Dunlop studded 8.85x14 snows, low mi, \$45/pr. Jim, X2332.

Ads are limited to one per person per issue and may not be repeated in successive issues. All ads must be accompanied by full name and extension or room number. Ads may be telephoned to Ext. 3270 or mailed to Room 5-105. The deadline is 5pm Friday.

High chair, cross country skis for man and woman. Call 492-6877.

Daily ride Methuen to MIT & back, 9-5 or earlier. Rosemary, X7173.

Pr 5'-5'6" cross country skis for woman. X5526 or 547-0144.

Old roll-top desk. Dorothy, X7974.

Male rmmate for own BR in Brk apt, \$80/mo. Paul, X575 Draper 7.

Elec typwr, gd cond, best price. X6265 or 436-0269 evgs.

Rmmate for Camb apt, own BR, \$100+ utils, pking avail. X2253 or 354-0217 evgs.

Guitar amp, reverb, 12" or lrgr spkr, pref Ampeg or Fender, under \$90. X7671 Linc.

Sansui 350A recvr. like new. \$130: BSR 610X auto trntbl w/dustcover, cart, \$55. Kaufmann, X3216 or

Tires for Dart, Coronet, some \$5, some free. Call 862-3728.

GE stereo, 7 watt output, was \$150, asking \$70. J. Aslam, X2961.

Green 7-ft sofa, \$200. Bob, 491-4061.

Youth chair, aquarium w/equip, elec cof pot, 12-32 cups. X7474 Linc. or 879-2376 Framingham.

Boy's blk Canadian skates, 5, like new, \$4.75. X7649 Linc. or 486-4866.

Amana 6000 BTU air cond, \$110; refrig, \$75; 60" desk, \$30; wall mounting shelves, \$15; etc. Jacki, X5696.

Underwd mod 18 typwr, \$50; Blizzard

import fiberglass skis, 190 cm w/ Marker step-in bndgs, \$110. Doug, X5743 or 776-6386 evgs.

Pr AR4X spkrs, \$70. X6893 or 876-0484 evgs.

Man's roller skates, 81/2, exc, new cond. Also wanted: 2 VW rims w/center nut holes (newer models). X358 Linc. or 667-7994 evgs.

Bernat knitting worsted, baby yellow, dye lot LO, 5 4-oz balls, \$1.40/skein, wl sell 4 or 5. Ann, X3811.

First day covers, 1/29/66-12/11/67, approx 63 envelopes, \$10. John Golis, page 274-8250.

Man's ski boots: Lange std, 10W, Langflo, used 1 mo, \$60; Koflach 5-bkl 1 thr, 10W, used 4 mos, \$20. Bill, X7230.

Sofabeds, 1 free, 1 \$10; pole & tbl lamps, easy chr. etc. best offers. Sandy. X3533 or 354-4005 evgs.

Hotpt deluxe port dishwasher, maple top, cab like new, nds new door gasket & water level switch, as is \$35. Dean,

Hammond organ, mod M3, hooked to 122 Leslie spkr; all cedar wardrobe, sliding doors, 40"x66", \$75; Motorola stereo console, best offer. Call 884-3063 evgs.

Lined curtains, \$30; corner sofa w/tbl, \$50; tbl lamp, \$8; end tbl, \$5. Call

Studded snows, 6.50x13, \$25/pr; Westinghouse elec clothes dryer, \$50. X2817 CEA or 527-9110.

Child's ski equip: 36" poles, \$4; boots, 5, nvr worn, \$20; hockey skates, 5, \$5; Henke lace boots, 4, \$5; man's bl figure skates, 12, \$2; studded snow (1), 6.85x15, \$10. Sara, X7195 Linc.

Businessman's exec oak desk, 64"x34", exc cond, \$50. X2017 or 731-0690 evgs.

Scott mod 210D stereo tuner, \$40. Ken, X3750.

Vehicles

'67 Linc Cont, 4-dr, nds grill and some sheet metal, \$1495. X185 Draper 7.

'62 VW sunrf, new seats & exhaust, blown eng, make offer. X2562.

'63 VW sunrf, gd run cond, 67K, red, \$300 or best. Egidio, X6705 or 646-3928 evgs.

'63 Chevy, br new batt, R&H, runs well, make offer. Call 227-9832.

'64 Dodge, 6 cyl, std, gd cond, \$225. Call 857-0219 Lowell.

'65 Valiant wagon, 6 cyl, std, \$200. Harvey, X7881.

'67 Camaro, body fair, gd cond, new parts, \$500. Georgia, X1509 or 445-9394 evgs.

'67 Pontiac Tempest, gd cond, rebuilt eng, \$500 or best. X2961, lv msg for Maya Negrin.

'67 Jeep Wagoneer, 4-wh drive, warn hubs, 4-dr, auto, p st, R&H, 41K, mech exc. Call 326-6895 after 7pm.

'68 Chevy 4-dr wgn, 6 cyl, blue, \$1095 or best. Don, X7398.

'68 Chevy Nova 2-dr, 55K, \$1200. Mike, X3565.

'70 Amer Ambassador DPL, 2-dr hrdtp, auto, p st, air cond, R, \$2350. Call 876-5363.

'69 Ford Cortina, std, AM-FM R, htr, snows, 20K, exc cond, \$950 or best. Call 876-4825.

'70 Merc Cougar, gld & bl, air cond, warranty, snows, \$2495. Call 877-5356 days, 875-1436 evgs.

'70 VW deluxe bus, exc cond, \$2200 firm. Call 263-7156, Acton.

Housing

Studio apt nr MIT, clean, newly redec, gd view, \$130/mo, avail now. Ling, X7748.

Waltham/Lex sublet 2-BR gdn apt, air cond, pool, avail 2/1-7/1, was \$225/mo, now \$210. X5572 Linc. or

Jay Peak ski lodge, sleeps 11, 200 acres. Chris, 665-6620 evgs.

Lex, 3-BR furn hse, fin bsmt & workshop, avail now for yr. Call 861-8099.

Northgate, 2-BR apt sublet, avail 2/1, pking avail, wall-to-wall, dish & disp, 10 mins to MIT, \$235/mo. Call 625-2817 evgs.

NH ski chalet w/sauna, indoor pool, etc, wkly or seas. Call 353-2809.

Animals

Beaut bl cat found on campus nds gd home. X3168 or 547-8761.

Wanted

Exp housepainter to paint apt, 1 rm per wkend, January, plus some carpentry. Call 227-8510.

Miscellaneous

Responsible couple will care for your home while you are away, 1/72-6/72. References avail. Bob, 227-8687.

Exp typist wl do all kinds of typing, willing on short notice, reas. Call 491-6434 evgs.

WI do gen, tech typing. Susan, X2138.;

Mature, reliable babysitter avail. Call 472-8735.