**Inside MIT**

**Linda Roscnclad appeared in a spectacular concert at the Music Hall Monday night, coinciding with the release of her Greatest Hits album.**

**Future seems bright for solar energy use**

By Mitchell Trachtuben

The Earthbound use of solar power generated in space has a 10 year, 

 Showcase by John Disher, Dr. Director of Advanced Programs, at a seminar on near-Earth space utilization held here Wednesday.

 Disher stated that "eventually, I am sure that we are going to be using solar energy from space on Earth. Projects aimed at exploiting the unlimited solar power of space are still in the study stage, however.

 The most definite short range development of space potential that Disher predicts is a continuing enlargement of the communications satellite industry. The industry is already worth several hundred million dollars per year, and Disher says "communications satellites are going to be a billion dollar a year business in not too long." He also believes that the United States is going to maintain its current position in the industry, with half of the markets.

 Disher cited five "unique attributes" of space which he feels make it a good environment for industrial and development: the "overview" which it provides, allowing large areas of the planet's surface to be observed by one camera; a near zero gravity environment; an "unlimited reservoir" for both waste heat and waste products; the perpetual motion characteristics of orbit; and, most important, unlimited solar energy.

 According to Disher, the "overview" aspect of space, which made possible the great success of communications satellites, will allow us to monitor large sections of the globe for various purposes as pollution control, agricultural national defense, and even to assist the shipping industry by observing which Arctic waterways are clogged by ice at any particular time.

 It is the near zero gravity of space that has the potential to collect huge quantities of solar power, claims Disher. Thanks to the zero gravity, structures can be constructed so lightly that concepts too huge to be made on Earth become practical in orbit. For example, the transmitting antenna alone, in one design under study by NASA for a solar power station, would be composed of almost 3000 20-meter cubes, forming an array with a radius of one kilometer.

 Other long range plans described by Disher include electronic mail transfer via space, satellite storage of space as a reservoir for Earth's waste products, and exploitation of high vacuum conditions for the creation of superpure alloys.

 Disher states that, surprisingly, zero gravity actually helps workers to perform intricate manipulations, so that problems with worker performance should not be a problem.

 Closer at hand, according to Disher, are plans for development of a space "tug" (Orbiting Transfer Vehicle in NASA-speak) and a space station by 1985; the development of a large lift vehicle for the late 1980's, and the operation of a full-fledged "space base" housing the space station by 1990.

 NASA's hope is that with each new development, construction of further projects will become easier. The shuttle should, expected to make its first flight very soon, will be the start of the upswing.

 What we need to do now, says Disher, is "learn to crawl so that we will be ready to fly when the time comes."

**Outside MIT**

The General Assembly of the Undergraduate Association failed for the second time on Monday night to obtain a quorum when only 27 delegates showed up for a meeting at which proposed amendments to the UA constitution were to be considered. The delegates were needed for a quorum. The next GA meeting will be some time in January.

The Consumer Price Index rose 0.4 per cent in October before seasonal adjustment to 171.3 (1967=100), the Bureau of Labor Statistics of the US Department of Labor reported. The October CPI was 5.3 per cent from a year ago.

**Theater**

Arthur R. Von Hippel, Insti- tute Professor, emeritus, and professor of electrophysics, emeritus, has been honored by the Materials Research Society as the first recipient of an award for outstanding contributions to the advancement of interdisciplinary materials research. The award has been named for Paul L. Hopper, a pioneer in such research.

Registration Material for the theater series is available in Lobby 10 on Monday, Dec. 13 and Tuesday, Dec. 14.

The MIT women's volleyball team's bid to reach the final double-elimination round of the National Championships in California was thwarted Wednesday night by the Harvard 6-1, 16-17, 19-16, 14-15, MIT, which then succumbed to top-seeded Texas Lutheran 3-1, 15-7, 15-12, 17-15, faced Kearney State of Nebraska Friday night to complete the first-round pool competition. Complete details will appear in next Tuesday's issue.

**UA housing proposals reviewed**

By Kent Fisman

Overcoming and improvement of the MIT housing system were the chief topics of discussion at a New House forum Monday night.

The forum, moderated by Undergraduate Association President Phil Moore '77, was the first in a series of meetings planned by the UA with each of the dormitories on campus to review four proposals which were outlined at a meeting of the UA. The following proposals have been made:

1. In order to avoid drastic over-crowding, the class size should be held constant unless new living facilities are added to the housing system.

2. Responsibility for determining housing needs for coed and single-sex living groups should be handled by students and the Office of the Dean for Students Affairs.

3. Living facilities that were given more control over the uses of internal facilities and the placement of objects in or near each living group.

4. The means of dormitory rate review should be opened up to greater student input, and the housing budget should be discussed in negotiation and student input where possible.

5. The Committee found that a personal crisis, said Moore. "The chief issue is whether you need overcrowding overseas with the budget." Moore added that in his opinion, the Institute would not have to raise tuition costs in order to lessen overcrowding, but that "if they thought they had to, they'd raise it anyway. The question is whether people are going to be able to afford to keep coming here."

One resident commented that students are probably reluctant to seek off-campus residence because they are afraid that they may not be able to return to their previous housing status if off-campus living does not work out.

Moore said that he would look into the possibility of guaranteeing housing to a student who has lived off campus for one term and decided that he does not wish to stay.

**Sculptures**

The placement of sculptures in or around dormitories was also discussed. Several students were encouraged by recent meetings with the Committee on Visual Arts, but others indicated doubt that their opinions were being considered seriously by the CVA.

The majority of those present favored the purchase of a greater variety of art forms, rather than the current policy of obtaining primarily sculpture, paintings, tapestries, and murals among the alternatives which were mentioned.
Ronstadt incredible

By Rebecca Waring
It is a rare thing when a popular vocalist performs as well in concert as on an album, but Linda Ronstadt managed towide herself Monday evening at the Music Hall. The first 45 minutes of the concert featured Andrew Gold and Ronstadt's backup band playing some solid, but not spectacular folk-rock. Unlike many concerts, though, the warm-up band played long enough to achieve its purpose, without making the audience impatient. What did make the sell-out crowd squirm in their seats was the length of the intermission — nearly 25 minutes.

Ronstadt was worth waiting for; when she finally appeared she performed a marathon twenty numbers. Some of the best moments came when she sang "Tracks of My Tears" from Prisoner in Disguise, and "When will I be Loved" and "You're No Good" from Heart Like a Wheel. The crowd gave Ronstadt two standing ovations, and she performed three encores. Her final two numbers carried the audience away. First she sang "Desperado," by the Eagles, an extremely beautiful song to which she added a tremendous emotion. Finally she gave a jubilant rendering of the Rolling Stones' "Tumbling Dice." It is incredible what a difference a great voice can make to already great music, the continuation of "Desperado" and "Tumbling Dice" was almost sublime.

About ten of the twenty numbers Ronstadt performed were on her just-released Greatest Hits album.当然, all of the songs on the album have been awarded from Pohl, who has been awarded the Hugo (science fiction's most prestigious award) four times.

The situation is interesting. Astronaut Torraway's body is completely rebuilt, an agonizing step at a time, with artificial parts so that he can stay alive on Mars without any external aids. Roger Torraway's body is completely artificial parts so that he can stay alive on Mars without any external aids. Roger Torraway's body is completely artificial parts so that he can stay alive on Mars without any external aids.

Linda Ronstadt entertainers an enthusiastic sell-out crowd Monday night at the Music Hall.

Man Plus not up to par

By Drew Blakeman
Take the premise of television's Six Million Dollar Man, carry the biotics a step or two further, and you have Man Plus, the latest novel by Frederik Pohl. The situation is interesting. Astronaut Torraway's body is completely artificial parts so that he can stay alive on Mars without any external aids. Roger Torraway's body is completely artificial parts so that he can stay alive on Mars without any external aids.

Unfortunately, Pohl leaves much of the plot up in the air. Man Plus has the appearance of a book that was written on a week's vacation at the beach. More could be expected from Pohl, who has been awarded the Hugo (science fiction's most prestigious award) four times.

Torraway's wife, who was greatly interested in the situation, went in the air.

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Star Trek trivia terrific

By Drew Blakeman
Have you ever wondered what a Gorn is? Do you know the name of Captain Kirk's nephew? Do you care what Spock's serial number is? Well, the Star Trek Concordance, by Bjo (pronounced "bee-joe") Trimble, has the answers to these questions and a myriad of others about everybody's favorite science fiction series, Star Trek.

The concordance was first aired in 1966, and it is probably the most complete collection of Star Trek trivia in existence. It certainly is the only one that can be purchased ($6.95 in Ballantine paperbacks).

She not only spent ten years of research glancing over every bit of information from the show that she could, but she also painstakingly cross-indexed it extensively. Under each heading there are as many as fifty additional references.

The Star Trek Concordance contains trivia from the original 78 Star Trek episodes as to be expected, and it also includes information from the short-lived animated series. Many people thought that the cartoon show was far inferior to the original and completely disregarded it, so that this is one of the few books which deals with the animated show at all.

The Star Trek Concordance fascinates a storehouse of trivia in addition to the many illustrations, but it probably will not interest too many others. The concordance should whet everybody's appetites for Paramount's full length Star Trek movie, which begins production later this year.

SUMMER INTERNS

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Computer Scientists

The U.S. Central Intelligence Agency announces openings for Summer Interns. All candidates must be committed to graduate school in the fall of 1977.

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Police Blotter

The Police Blotter is a report written by the Campus Patrol on crimes, incidents, and actions on the MIT campus each week.

Hitchhiker Robbed

A young woman hitchhiking alone on Mass. Ave. outside MIT not long ago was robbed at knife point after being picked up by a man driving a light green car, thought to be a Kamrin-Ghia. After parking her up, the man drove into the Ashdown House parking area, pulled a knife and demanded her money. He then searched her, and pulled a necklace from her neck. Ordering her out of the car, he then fled the scene. The suspect is described as: 26 to 30 years old, tall, slender, light brown hair, with a moustache.

Auto Theft Fails

Officers on patrol in the Westgate area Saturday night broke up the attempt to steal a green Pontiac parked there. The attempt was carried out by three youths; the lookouts, the one working on area just prior to the theft.

Thieves Stolen

Two men, age 16 to 18, one of whom was wearing a tan coat, were spotted by an alert Westgate resident Sunday morning around 7:30 running near an AM/FM radio parked in the Westgate parking lot. They fled the scene in a blue sedan, heading westerly on Memorial Drive. From one was taken an 8mm movie projector and a pair of ski boots; while from another an AM/FM radio was stolen. The total loss exceeded $500.

1.35mm Nikon camera, valued at some $390, was stolen from a photography lab on the second floor of an East Campus area building when left unattended for just a few moments on Wednesday. Investigators are seeking a slim young man around 19 years of age who was seen lurking in the area just prior to the theft.

Community Notice

Students who plan to be away for the upcoming holiday and IAP periods who lack adequate security facilities for safeguarding valuable personal property (except bicycles) may leave such items at the Campus Police Headquarters (W3-215) for safekeeping. Goods should be boxed or bagged wherever possible. Deposit and pickup period is 9am to 5pm Monday through Friday.


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feedback

No Folk Dance input

To the Editor:

On Sunday November 7, the MIT Folk Dance Club took money for the United Way via general contributions and silent auction of off-dance. The legitimacy of the selling of dances and the decision process has aroused controversy among the members. This issue has the potential to become a more serious problem.

Dances are normally requested by empty rows, and then grumble as as
Lecture

casual asking of their friends and grammers. assessment of the dance's
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The auctioning process was criti-
of the selling of dances and the decision process has aroused
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No0

I am writing to briefly lambast
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...The last week of July. Please send all correspondence to: P.O:. Box 29,

No0

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...The last week of July. Please send all correspondence to: P.O:. Box 29,
sum is occasionally doled out to a
museum in France.

Art patroness Peggy Guggen-
heim has observed that no one
buys paintings and sculptures new
and old anymore for the love of
art. Of the items that are sold
as investments, many are
bought for egoistical reasons.
They are sold to the wealthy busi-
nessmen who feel that he has
something to prove to society. He
is seeking to show that the pop-
an image of him has been wrong
as a coarse, acquisitive Robber
Baron incapable of aesthetic values
does not apply to him. He
purchasing art as a positive
action of summoning public
good will towards himself for his
demonstration of beauty worship.

To the Editor:

"They are not ugly. Just hunks of metal, and ugly at that. If he doesn't like them, they are
to him. Besides, they are done by
him."

The only way to break the
standards of art is to break the
bias of social and personal
preferences. The problem is that such a
way of thinking is pure illusion of
beauty. Good and bad in art is large-
ly a matter of taste. Truth and
taste are two different things. It is
through the free and sincere
expression of opinion that society
finds its standard of beauty gains
some of the overall social value of an
art work. Not through deference to a
prejudged view of History. Nor by
swaying submission to The Experts.

As for Mr. Shladover's assess-
ment of the MIT's sculpture pro-
gram being just a product of a lack of open-
ness, I say that the skepticism of those
who are not ideal, reaction from Student x
might be this: "I don't like the thing."

The Verdict of History. It does not exist.

Never has, Never will. The reason
why it doesn't, hasn't and won't is
because a work of art isn't good or bad as a matter of scientific
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Lay avant-gardists: art snobs?

(Continued from page 5)

Perhaps so.

D. Laymon

Avant-garde art fans are mostly bright, reasonably well-educated young adults from the upper- and middle-class elements of the population. To quote him, "The avant-garde art snob is the new snob." He maintained that those who objected to science fiction were objecting to the modern art rather than to those who disliked avant-garde art are automatically hidebound, conservative and intellectually inferior. Almost all of them have no personal preference as to the future direction of art. Most are perfectly content to be told by the authoritative sounding taste arbiters who watch with beer can in hand.

To the Editor:

In the 12 Nov '76 issue of the Tech, David Koretz, in his article on Dr. Asimov's recent lecture at MIT, summed up the lecture in a quite erroneous manner, stating that "Science fiction writers go about their business of predicting the future." He then went on to list the examples given by Asimov to defend his position. What Mr. Koretz overlooked, however, was that Dr. Asimov gave these examples not to show that science fiction predicts reality, but rather to scoff at those who objected to science fiction on the grounds that it was "escapist literature." He maintained that predicting the future was only a side effect of science fiction. To quote him from his book, Today and Tomorrow and... "It is not the reality of the business of science fiction writers to predict the future. The fact is that the science fiction writer's first aim is to tell an interesting and exciting story that will amuse the reader. His own particular type of story focused events and attitudes that are not common, and perhaps are not even possible, in his own society, and therefore his tale has the value of novelty. If he is a conscientious science fiction writer, he will try to build up his unusual events and attitudes in a way that will make them seem plausible to the reader." Later in the same book he says, "Some predictions are forced by the exigencies of plotting and no one is more surprised than the science fiction writer when it turns out that he has predicted something. And when our ideas will only work if we make use of the scientifically impossible, that, as far as we know, can never come true — such as time travel and anti-gravity — why, believe me, we do that, and without the triad's compassion or remorse, provided only that we make it sound plausible." — Allen K. Wells '80 November 13, 1976

Sci-fi future predictions: a storytelling side effect

To the Editor:

Asimov's article is that the science fiction writer's desire to predict the future... The fact is that the culture that is symbolized in everyday conversation nowadays by Lawrence Walk, Reader's Digest, Billy Graham, Penthouse, TV dinners, and Sunday afternoon football watching with beer can in hand. Here is something to be pointed out that modern art became the object of snobbery at the point in history when people started to believe that a particular art work was better than another by virtue of its (the former's) later date. If a citizen liked new art better than those shards. And when Sir Oracle tells him about those "monumental inexperience of the earlier types were innocent. Art avant-gardists nowadays delight not so much in this artist or that, but with the traditional prestige, the cachet, that attends to belonging to the modern scene. Almost all of them act as though people who dislike avant-garde art are automatically hidebound, conservative and intellectually inferior. Almost all of them have no personal preference as to the future direction of art. Most are perfectly content to be told by the authoritative sounding taste arbiters who watch with beer can in hand.

Feedback

1. What is the most interesting prediction you have read about? Why?
2. How do you think science fiction writers should use their predictions?
3. Have you ever attended a science fiction convention? What was your experience like?

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W fencers edge Baruch

By Jeannette Wing

(Jeannette Wing is a member of the Women’s Fencing Team.)

On December 3, the MIT Women’s Fencing Team (2-3) beat Baruch College on indicators, winning by 10 touches. Unaccustomed to the quick New York tempo, MIT fell behind to Baruch and by the tenth bout MIT was down 3-7. Undaunted, the women started fencing more aggressively to win the last five out of the 6 remaining bouts to even the score at 8-8. With the score tied, the meet was decided using the total numbers of touches received by each team, and MIT won 53-63.

Co-captain Judy Austin ’77 led the team with three solid victories. Co-captain Meredith Bolez ’78 beat two of her opponents; Jeanette Wing ’78, one. Michelle Prentym ’79 contributed two wins, the second of which was the key victory of the meet.

The next afternoon on December 4, the MIT women fenced a tougher team from Brooklyn College. Although the quality of the fencing improved from the night before, the aggressiveness of their opponents shook MIT into dropping the meet with a final bout score of 7-9. However, Austin fenced with winning all four of her bouts. Bolez, Wing, and Prentym each contributed one victory.

Earlier in the season, the MIT women beat Rhode Island College 7-2, and lost to both University of Maine (Orono) 6-10, and Radcliffe 6-10. Hopefully, when the season resumes in January the women will regain the momentum they had during last year’s 10-3 season.

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**SCIENCE NEWS**

**PHYSICS TODAY**

The corpuscular nature of the electron was the subject of a paper by N. F. Mott.\(^\ast\) Mott presented a simple model of an electron as a particle that is subject to both quantum mechanics and electromagnetic fields.\(^\ast\) In the model, the electron is assumed to behave like a classical charged particle, and its motion is described by the equations of classical electromagnetism.\(^\ast\) The electron is also assumed to be a quantum particle, and its wave function is determined by the Schrödinger equation.\(^\ast\) The superposition principle allows the electron to be in multiple states simultaneously.\(^\ast\)

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The HiFi Show

182 Massachusetts Ave, Cambridge 864-HIFI

in Massachusetts: Harvard Sq., Comm. Ave., Newbury St., Waltham, Stonington, Framingham, Dedham, Quincy, Hanover, Brockton, Worcester, Amherst and Northampton

Beavers skate by Gordon

By Tom Suglione

Sophomore forwards Kevin Duport and Rich Bryant tallied four goals in the second period to clinch a 6-2 hockey victory over Gordon at the last Second String game for MIT.

This scoring outburst came during the last eight minutes of the second period and capped Gordon's freshman goalkeeper who gloved, kicked and punched away at least ten intently five Beaver scoring drives.

The men's varsity hockey team dominated the game, outskating and outmuscling the Gordon players. MIT posted 46 shots on the Gordon net with single goals tallied by Ken Mortensen '78 and Jim Aldward '80. Sophomore center Dave Tohir dominated the MIT offensive zone, moving the puck well and setting up two scoring drives. Line assets were credited to Mortensen, Greg Coutts '77, At Strong '79, Wally Corwin '78, Captain Evan Schwartz '79, and Steve Michel '80. The Beaver scoring outburst is led by the Tohir-Duport-Mortensen line which has accumulated nine points in two games, and the Strong-Coutts defense which has tallied six points.

The Gordon team, sensing defeat, sent "shock troops" in the third period. This resulted in two major penalties against Gordon as sticks went high and two Beaver players received facial cuts. Gordon was unable to recover, skating half of the third period a man down. The two Gordon players were allowed to control the shot. Beaver goalie Dan Crone '78 maintained his respectable average of letting up only two goals even while being lured into inactivity in the cold evening air as his teammates dominated his Gordon counterparts.

Coach Wayne Packold is enthusiastically looking ahead to games against Boston College and Massachusetts College of Pharmacy leading into the Christmas vacation.

Mid-season, the men's Varsity Team basketball dropped its first meet of the season to Tufts 68-65. This was a 14-13 loss, and this was Harvard's top epeeist.

Junior Varsity's 14-13 upset victory in the third straight game of the season Sunday.

As a team, the Engineers captured rings, vaulting, and parallel bars. The only individual winner for the Engineers was Kin Ming Lam '77, who in the absence of captain Lisa Jabolous '77 who is in California with the women's Volleyball team. MIT did play well in the first half, building a seven-point lead at one stage. However, Tufts then began to execute its fast break. By halftime, Tufts held a two-point lead.

In the second half, Tufts' fast breaks along with superior rebounding and strong pressure on defense produced a nine-point lead with a little less than thirteen minutes remaining. The Engineers never recovered, although they did score the last five points.