Lincoln Laboratory Aids In Missile Reentry Research

MIT’s Lincoln Laboratories are sponsoring an extensive research program in the field of reentry reentry physics. The program is being sponsored by the Advanced Research Projects Agency under a contract with the U.S. Air Force, and will serve several purposes.

Serves Defense Effort

Information from this research will assist in the solution of problems related to defense against ballistic missiles. It will also assist in developing techniques which will permit more accurate location and better communication with vehicles.

Affects Communications

Phenomena associated with reentry produce conditions which influence the effectiveness of all known communications, detection, and tracking techniques. A better understanding of these phenomena will provide more information about their effects and how to adjust for them in the development of the technology needed for the space age.

The project is being attacked from several angles. The program includes laboratory and theoretical investigations, as well as field experiments. Among the investigations is the study of how the plasma phenomena that occur through the atmosphere are observed at a very high velocity.

Laboratory Work Included

Theoretical work will be supplemented and supported by experimental work in the Laboratory. The experiments are designed to observe the effects of small projectiles fired at reentry velocities up to 25,000 feet per second in ballistic facilities. The experiments are being carried out in cooperation with the Ames Research Center of NASA in the Ames hypervelocity ballistic range and at the Lincoln Lab in a newly constructed hypervelocity range at its Lexington Field Station, adjacent to the main buildings of the Lab.
Shawinigan Resins

DATE OF INTERVIEW
THURSDAY, DECEMBER 8

POSITIONS FOR

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B.S., M.S. for Research or Sales — Ph.D. for Research

Chemical Engineers

Mechanical Engineers
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and Shawinigan Chemical Ltd. of Canada.

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Shawinigan provides on-the-job training for all new employees. Training is on an individual basis and is geared toward orienting the employee in that position for which he was hired. Additional training is obtained through participation in seminars, national scientific meetings, and lectures at the plant. We also have tuition aid programs.

OTHER INFORMATION:
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CONTACT:
Mr. George F. Henderson, Employment Manager
Shawinigan Resins Corporation
Springfield, Massachusetts
Telephone — State 8-9881

Shawinigan Resins Corp.
Class Of '62 Incurs Loss

Inscomm Examines Ethics Here

Biggs Is First In Recital Series

MIT will offer another concert series this year as part of its musical program celebrating the Institute's Centennial.

This year's first concert of the three-part series will be given by E. Power Biggs on November 30.

Marie-Claire Alain, the youthful French organist will give the second concert on March 1, while the last concert will present Lady Susi Jeans, widow of the well-known British physicist Sir James Jeans, on April 12.

Series tickets for the three concerts are available at $4. Single tickets will be $2 and may be obtained from Kresge Auditorium, Room 61-026 either by phone or mail.

E. Power Biggs

“IT'S HERE—IF YOU WANT TO WORK FOR IT”

Even before Ron Spetrino received his engineering degree from Case he had good job offers from six companies.

He joined The Ohio Bell Telephone Company—his reason: “I was convinced an engineer could go further here—if he was willing to work for it.”

As soon as Ron got his feet on the ground in telephone engineering, he was tapped for a tough assignment. The job—to engineer switching equipment modifications needed to prepare Cleveland for nationwide customer dialing of long distance calls.

Ron wrapped it up in five months, and found he had earned a shot at another tough assignment. In this job Ron helped engineer a completely new long distance switching center for Cleveland. This switching center connected Cleveland with the nationwide customer dialing network. It was about a year later that Ron put the finishing touches on the specs for this $1,600,000 project.

Today, as a Supervising Engineer, Ron heads a staff of five engineers and is responsible for telephone switching in much of the greater Cleveland area.

He supervises the design and purchase of $3 million worth of equipment a year. And even more important, he is charged with developing the technical and managerial skills of his staff.

Ron knows what he’s talking about when he says, “In this business you have to do more than a good job. We expect a man to be a self-developer. We expect him to take responsibility from the first day on the job and think for himself. You don’t get ahead around here by just doing time.”

If you want a job in which you’re given every chance to prove yourself, and real responsibility right from the start—you’ll want to see your Placement Office for further information.

“I was convinced an engineer could go further here—if he was willing to work for it.”

FREDERICK R. KAPPEL, President
American Telephone & Telegraph Co.

BELL TELEPHONE COMPANIES
What Price Glory?

The question of varsity player competition in intramural athletics continues to be a bone of contention (See Letters, page eight). The Tech feels that some solution should be found to the apparently large annual loss to the varsity teams of players through intramural injuries. Consequently, a situation in which a varsity swimmer was prohibited from an hour or two of IM ping-pong is almost ludicrous.

The whole question need not rise or fall on this one extreme measure. Other proposals present themselves: varsity players ban from IM football, hockey, and basketball, unless released by individual coaches — or a vote of each team at the beginning of the season, to determine in which intramurals teams members should be barred from participation.

Living groups, as well as the IM Council, should discuss this matter, and the Council should seek their opinions.

The Tech

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November 18, 1960

Chairman: Linda G. Siropoulos, '62
Managing Editor: Charles M Pink, '61
Assistant Business Manager: Carolyn Winters, '61
Assistant Sports Editor: Carl W. Morris, '62

Assistant Advertising Manager: Joseph Halton, '63
Assistant Sports Editor: John Barnard, '63
Assistant Photography Editor: Helen Ault, '63

Advertising Manager: Charles M. Pink, '61
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Treasurer: Ronald A. Becker, '63

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I love the sight and sound of them...

This solution, it seems to me, answers every requirement. It releases hundreds of thousands of classroom seats to needy males. At the same time, it does not deprive women of the rich and varied benefits of campus life. They can join sororities, shoot pool at the Union, build bonfires for Homecoming games, pour at the Dean's tea, play daisies in their hair, organize drag races, sculpt marble, the jewel of cigarettes-Marlboro, the pinnacle of the otolocist's art—Marlboro, my comfort, haven, and snug harbor.

Well sir, I jest smoking my Marlboro and thinking over the smoking proposal to keep women out of the coed schools, and hope fervently that another solution can be found. If the calamitous day ever comes when women are banned from coed colleges, I will wish to teeth and rend my garments and take to my bed without supper. Like any other Marlboro man, I love women. I love the sight and sound of them, the cut of their jibs, their beauty and grace, their cunning little sputfires, their sleek dimples, their middy blouses, their aura and effluvium. Moreover, I freely admit that when it comes to brainpower, they can overmatch, I freely admit that when it comes to brains, for they can outmatch, for they can.

Tommy Gun

Philip Morris, now available in a plastic 500, which is a much-needed perspective on real-world problems and how one copes with them.

Senator John Kennedy's proposal late in the campaign for a "Peace Corps" was not a novel one to MIT. As early as 1951, and again two years ago, the issue was discussed by SCEP and the Council should seek their opinions. Many college students feel a social or political obligation of one kind or another, but are unsure or unaware of how this obligation should be fulfilled. The picketing of Woolworth's by white students is a case in point. Picketing and arrests on Washington are fine for demonstrating interest and awareness, but the energy would be better put to use where it will do some good. Service abroad would not only utilize this energy, but would also give students some much-needed perspective on real-world problems and how one copes with them.

The setting up of a "Peace Corps" of one sort or another would be of immense benefit to the country, and to its college graduates. The Tech is proud to note that the idea is not a new one to MIT; we hope that it will be speedily realized into an active force to boost America's prestige and put to better use one of her great resources.
Inji Shimura Stars

'ikiru' (to live) Playing At Fenway
Enthusiasm and Purpose Stressed

Akira Kurosawa's highly emotional film, 'ikiru', now showing at The Fenway theater, plays contrasting themes of man's search for purpose and American civilization's impact on old Japan.

The picture poses the question of what constitutes a worthwhile aim in life for an individual, and further, whether this aim is restricted to any age group. A dying man reflects on his life and remembers no satisfaction; he instinctively clings to life, but has no raison d'être. Anji Watanabe, movingly played by Inji Shimura, first tries hedonism as an end in life. Under the influence of a dissipated young writer, the old man is led to sako-mills, and pinball games. The writer, though still young, has no goal but enjoyment. But these artificial stimulants fade, leaving Watanabe empty.

However, other members of Japan's younger generation are not aimless. Their energy and enthusiasm tantalize him and he wishes for their vigor. One girl explains that her own simple wish is to become the friend of Japanese children while partygoers next door sing 'Happy Birthday', the old man realizes that one must work for some goal, however small. The aging civil servant pushes a neglected project to completion, and at last knows satisfaction.

As a secondary theme, Kurosawa shows the mixed blessing of America's impact on old Japan. Hide-bound bureaucrats mutter about preserving spheres of influence at Watanabe breaks tradition to achieve his goal. However, this infusion of Western enthusiasm accomplishes more than traditional methods. Kurosawa also points out the worst features of American life through excellent camera work, communicating the euphoria of a Japanese Beverly Beach. He leaves the unanswered question of whether or not Japan can select the good parts of American culture and reject the bad, but demonstrates that enthusiasm is not kept from anyone.

Kurosawa brilliantly directs the subtleties in the action, and skillfully smooths awkward parts of the plot. His directing peaks in the highly contrasting but finely structured camera shots: at critical moments, close-ups expand the tiniest tremble of a lip to fill the screen. But if any one person deserves the credit for 'ikiru', it is surely Shimura, who sensitively portrays the old man's internal struggle. Most other characters in the film are transparent stereotypes; this focuses the action on Shimura, who successfully carries the heaviest burden of the screenplay.

ONE (1) RARE YOUNG MAN

He's an Electrical Engineer / Possibly in the top of his class / Probably not / but regardless of standings, he needs a challenge for top performance / he has a high opinion of his abilities / he's probably worth 20% more than the going rate / he's used to carrying his own weight / and he wants a job that will let him continue to do so / he wants to get started now / not with another college with frills / he's used to carrying his own weight / and he wants a job where the pressure is great

with pay to match / he loves to work / he thrives on problem solving
and knows the time and effort it takes / he has no interest in sales / he may be asked to work to exhaustion / he'll love it / he's an engineer / he wants to be the best /

If you're this person, graduating in February (B.S. or M.S.) and are willing to undergo rigorous scrutiny, we can discuss a position with Julie Research Laboratories, Inc., of New York City on December 1 at your placement bureau.
Andrew Wyeth Show At Library

A loan exhibition of 39 tempera and watercolor paintings and one drawing by Andrew Wyeth, Hayden Gallery through December 4, Monday through Friday 10 to 5. November 13 to 5 (Nov. 11, 12 to 5).

These paintings inevitably provoke the still-hot polemic of objective versus nonobjective painting. Against the current plethora of unidentifiable visual images, Wyeth's works speak eloquently for the traditional values in objective painting: easy communication and complete command of the painter's craft.

Although one may suspect an abstract work to be a series of accidents, there can be no such doubts about Wyeth's carefully planned objective creations. So carefully are the implications of his subject matter explored, and so painstakingly are his graphic decisions portrayed, that he is able to produce only a few canvases each year. Yet, Wyeth uses the positive qualities of objective painting so precisely that the essence of the artistic conception remains unblurred by possible emotional misinterpretations.

Simplicity

The subject matter of these Wyeth works is commonplace: unusually usual people who seem to speak for many others; simple objects that dramatically contain the essence of the object; or a rolling, lovely landscape that is unique, yet so evocative that it says much of landscapes everywhere that have been changed by man and that have changed him.

Very little "goes on" in a Wyeth painting. We are immediately fixed on what he intends us to see, for he has concentrated his own attentions on the fewest, simplest, and strongest elements. Even the colors are simple. Usually they are grayed variants of a monochromatic scheme. If motion is suggested, it is suspended motion — caught still for our examination.

Though these paintings are static, straightforward, and solemnly colored, their exquisitely rich details, highlights and textures cause them to exude a grave vitality. Drama, in these paintings, is heightened by their unusual perspective views (the viewer may soar with the birds or crawl with the ants); by illusions of space, and light; and by suggestions of infinity (thus of our own infinite freedom within our realistically impinging world). Wyeth stops us, grabs us by the collar, and promptly enchants us. It is a quiet, solemn, enchantment. It is the enchantment of the deep look, through beauty's eyes.

These works are well known, of course; and rewardingly known. Wyeth, at 43, probably is America's best known contemporary painter, and certainly her most beloved.

— Howard Hershberger, '60
Trumbo Does It Again: 'Spartacus' Is Soft-Sell Propaganda.

By George Lakoff, '62

SPARTACUS, a 12 million dollar spectacle now sweeping forth blood at the Astor, is a toned-down version of Howard Fast's Marxian novel about the Roman slave revolt. Screenwriter Dalton Trumbo, formerly one of Hollywood's top ten Communists, seems, ironically, to have stripped Fast's novel of most of its Marxian themes and to have replaced them with themes more acceptable to an American audience.

Rather than to overthrow Rome and to set up a new society in its place, the slaves in the movie want merely to liberate themselves and to return to their respective homelands. They seek a limited goal, rather than a far-reaching reform. Of course, they lose to the Roman legions, but they give them a good fight and die as martyrs. The movie ends happily as Spartacus, hanging crucified from a cross, sees his wife and son escape to freedom.

Jean Simmons as Spartacus' wife, Varinia, is sweet, demure, and delightfully feminine — not at all like the knife-wielding peasant woman of Fast's novel. Kirk Douglas in his boat-neck toga seemed like Mat Dillon with a sword. Still despite all of his concessions to the American taste and all the Hollywood schmutz, Trumbo seems to have had the last word.

In his eulogy of Fast's novel, Trumbo has shifted the political spotlight from the conflict between Rome and the slaves to the struggle in Rome between the republicans and the aristocrats. The republicans are reminiscent of the modern capitalists. They have won freedom for themselves and have attained to a high standard of living, but their economy and indeed their whole way of life depends upon the slaves, who might represent downtrodden workers, but more likely depict citizens of underdeveloped countries. The republicans refuse to ameliorate the conditions of the slaves, and when the slaves revolt, the responsibility for putting down the rebellion falls on the republican government.

When the slaves defeat the republican armies, the aristocratic general stages a coup d'etat and Crassus, the richest of the generals, becomes dictator. In a modern society, Rome and Crassus might be France and De Gaulle.

The compassion that Gracchus, the republican leader, comes to feel for Varinia is indicative of the class solidarity that the republicans under a dictator might achieve with the slaves. At the film's end, the viewer sees diabolical Crassus as the bad guy and avuncular Gracchus as the good guy, and the viewer identifies with the republicans.

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- Global Surveillance Satellite Systems
- Three-Dimensional Radar Systems
- Electronics in Oceanography
- Infrared Detection Systems
- Industrial Controls
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- Electroluminescence
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- Ion Propulsion

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N.Y. Pro Musica and
I Solisti Di Zagreb
Perform Sunday

Two distinguished musical groups the New York Pro Musica and I Solisti Di Zagreb, gave MIT students an excellent opportunity to become acquainted with less familiar areas of music last Sunday.

Both these groups, for all their genuine dissimilarities, serve the common function of filling a musical gap; the first a gap in time, the second a gap in dimension. The New York Pro Musica, making its second appearance in Kresge Auditorium, has for some years been giving programs of the vast but obscure literature of music extending from Bach back through the Middle Ages. The Solisti Di Zagreb, along with other famous chamber orchestras, has likewise helped revive interest in the considerable repertory of music for groups in size between solo and chamber groups and the modern symphony orchestra.

Noah Greenberg and his highly trained organization met with an enthusiastic reception for their exclusively English program of Elizabethan and Jacobean music. One disadvantage of so specialized a repertory is that, to the untrained ear, it all seems to have the same, antique "flavor"; however charming and relaxing that flavor may be. But each of the Pro Musica musicians was expert enough in this field to make the individual pieces fresh and vital, and it was a pleasure to see them perform this music with such relish and enjoyment.

The Solisti Di Zagreb, a string chamber orchestra of twelve led by the talented cellist-conductor Antonio Janigro, appeared before a large audience Sunday night at Symphony Hall. Throughout the evening, their skill was apparent in music that ranged from Corelli to Britten. Perhaps the high point of the concert was the Borodin's 'Cello Concerto, with Janigro as soloist.

— Harry W. McCraw, '62

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Institute Swim Meet Tomorrow Afternoon, Evening

Tomorrow the MIT Swim Club will sponsor the fifth annual All-Institute Swimming Championships. In addition to eleven competitive events in which students, graduates, and faculty will compete for individual medals and ribbons, the meet will feature several events of high entertainment value. The Wellesley Swim Club will perform a water ballet featuring eight of their lovely members, and two girls from the Cambridgebridge School, Misses Linda Courtney and Joan Harkness will exhibit their low board diving skill. Ron Keenhold, the fresh swimming coach, will also demonstrate his high board championship form.

Trial heats will begin at 3:00 P.M. at the Alumni Pool. The finals, including the awarding of the Interclass Trophy and individual medals by Dean Rule, and the exhibiting events, will begin at 8:00 P.M. Admission to both the trials and the finals is free and A.P.O. will sell refreshments.

Persons interested in entering the competition must submit an entry blank to the Swim Club booth before 5:00 P.M. Friday. Competitors should report to the pool at least fifteen minutes before the beginning of the meet in order to have sufficient time to warm up.

What, no sports car cap? You don’t need a little cap with a belt in the back, or knowledge of some esoteric automotive jargon to enjoy a Corvette. All you need is a desire to own a car that is designed for your use personally. This is no station wagon, no family sedan, this is your car and nobody else’s. It is the ultimate development of a fine car that has known five years of unparalleled success in the maelstrom of sports car competition, and yet it can be tailored to your personal tastes—even if you don’t know a tappet from a teapot.

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Class Race Ends Fall Crew Activity

The MIT crews ended their Fall rowing season last Friday with four races in the afternoon on the Charles, and a steak fry at the Boat House in the evening.

In the first event of the afternoon, the living group race Burton House jumped out to an early lead, and swept to victory better than two lengths ahead of Lambda Chi Alpha, Sigma Nu, Sigma Chi, and Theta Chi.

The freshman race provided the day’s closest finish with the heavyweights prevailing over the lights by inches in a disputed finish. The class race, the highlight of the day, saw the class of ’63 capture the Richards Cup, defeating four other class boats and an alumni boat.
Pass Yields 7-0
“A” Loop Margin

(Continued from page 1)

direct snaps to halfbacks formed an inherent part of the offense. All three starting backs, Tim Vogt, ’62, Paul Olmstead, ’62, and Jim Allen, ’61, ran, passed, and attempted pass receptions on occasions.

Early in the first quarter Sikes broke through the middle, eluded the DU secondary and dashed 40 yards to the DU 29. One run for no gain and three incomplete passes ended the threat. After two exchanges of punts late in the period, DU took possession on its own 10 yard line.

A varied succession of runs by Vogt, Olmstead, and Allen powered DU to three first downs. With a first and ten on the LCA 35, midway through the second quarter, DU took to the air lanes. An Allen pass to Paul Sabo, ’61, was incomplete. Then Vogt at the goal line. A Vogt toss to Paul Sabo, ’61, for the TD. A Sabo-Bob Polutchko pass was completed for the extra point, putting DU ahead 7-0.

Hinrichs, Robertson Place In AAU Run

Two MIT varsity cross country runners finished in the top half of the starting field in the New England AAU Cross Country Championships at Franklin Park last Sunday. Roger Hinrichs, ’63, placed 15th while Paul Robertson, ’61, was 21st of 41 official finishers in the event, which saw Olympic marathoner Johnny Kelley upset by Olympian Larry Dameron.

Fourth Score on Pass

On the 1st play of the 4th quarter, Lordi threw yet another TD pass to Sabo, this one from the 22 yard line. AT0 added 6 consolation points when Lordi passed to Sabo, this one from the 22 yard line. AT0 added 6 consolation points when Polutchko slipped over for 21st of 41 official finishers in the event, which saw Olympic marathoner Johnny Kelley upset by Olympian Larry Dameron.

two heads are better than one

Especially when one happens to be a delectable girl-type head. Lovely heads are always attracted to male heads that use "Vaseline" Hair Tonic - made specially for men who use water with their hair tonic. "Vaseline" Hair Tonic’s 100% pure grooming oil replaces oil that water removes. In the bottle and on your hair the difference is clearly there! Just a little does a lot!

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Girls Show Luffing Skills

Sailors Tie For Trophy; Class Races Held

In the final weekend of Fall sailing, MIT skippers took part in a great variety of matches last week. The varsity sailors tied for the Team Racing Championships at Coast Guard, the MIT Championship Regatta Trophies were awarded, and the MIT crews tied for third place among six girls' teams.

In a series of exciting races, the Techmen fought an anticlimactic tie with the Coast Guard Academy for the Leonard M. Powe Trophy, for the New England Team Racing Champion. In the first day's sailing on Saturday, in which MIT met Boston University in a semifinal round, a seemingly hopeless match was pulled out of the bag. The Techmen dropped the first three races in a best four out of seven match, but went on to take the series by winning four straight. Sailing for MIT on Saturday were Don Nelson, '61, Pete Gray, '61, Ken Klare, '63, Mike Lifshitz, '63, and Warren McCandless, '62.

Coast Guard Beats Yale
Winning the semi-final qualified MIT to meet Coast Guard, which had beaten Yale in four straight races in another semifinal match. With Nelson, Gray, Klare, and Jerome Milgram, '60 sailing, the lead for the trophy see-sawed back and forth. MIT took the lead in the first race by placing boats in one, two, three, five order.

Coast Guard bounced back by doing almost the same thing in the second race. In this fashion, the lead changed hands until the sixth race. At this point the wind died and it took an hour and a half to finish the contest. In complete darkness, further racing was suspended with the two teams deadlocked at three victories apiece. Races will probably be held next Spring to determine the winner.

3 Trophies Awarded Here
The MIT Championship Regatta held last Friday saw the awarding of the Vose, Nickerson, and Smith Trophies. The Smith Trophy for the best graduate student or staff sailor went to Bill Widnell, '59. Don Nelson, '60, took the Vose Trophy for the best undergraduate, and Henry Weil, '64, was awarded the Nickerson Trophy for the best undergraduate not on the varsity sailing team.

The sailing was extremely close, the first four sailors finishing with 79, 76, 75, and 72 points apiece. Nelson finished first, Widnell second, and Weil eleventh out of approximately 21 entries.

Pembroke Paces Girls
In an unusual intercollegiate event, Pembroke College took top honors among six distaff teams, Friday at MIT. An organization of high school sailors, the School Sailing Club was second, and MIT and Jackson fourth for third place. Among the girls sailing for MIT were Eleanor Chance and Marjory Harper.

The MIT Sailing Pavilion is now closed for the winter. There will be a general meeting of all card holding members of the Nautical Association on December first. Time and place will be announced.

--- Photo by Curtis Wiler, '63
Hoisting The Mainsail

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Winter Sports On Deck

Today, November 18
Rifle at St. Michaels

Tomorrow, November 19
Rifle at Vermont

Thursday, December 1
Basketball with Bates College 8:15 P.M.
Fencing with Bradford Durfee 2:00 P.M.

Friday, December 2
Rifle with Harvard 6:00 P.M.

Saturday, December 3
Basketball with Trinity (V&F) 8:15 P.M.
Rifle with Norwich 10:00 A.M.
Fencing with Bradford Durfee 2:00 P.M.
Wrestling at Tufts (V&F)
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NOVEMBER 29, 1960

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