

Course XV Senior David Ness Awarded Rhodes Scholarship

MIT Senior David N. Ness was recently awarded one of thirty-two Rhodes Scholarships extended to American students.

The scholarship provides for two years at Oxford University in England with an annual stipend of 750 pounds in addition



to securing admission to Oxford for the recipients. Ness is currently in Course XV at MIT and plans to study subjects in Philosophy, Politics, and Economics, leading to a B.A. degree in that course. His distant plans are uncertain but may include graduate studies at MIT's School of Industrial Management.

Ness's activities at the Institute include tennis, the presidency of Phi Gamma Delta, chairmanship of the Course XV Student-Faculty Committee, and presidency of the Industrial Management Association. His scholastic average is approximately 4.7.

Rhodes Scholarships were established in the will of Cecil Rhodes, the first Scholars having been chosen in 1904. Presently the program provides for the selection of thirty-two students from the United States and thirty-five from the British Commonwealth. The selection procedure for American students is based on an eight-district system with six or seven states in each district. The applicant may apply in his resident state or in the state of his schooling.

Technical Assistant Dies In Laboratory

Gunther Conradi, a technical assistant in the Department of Metallurgy, died accidentally on December 23 by electrocution in a laboratory in Building 35.

Conradi was a night student at Boston University studying physics. He was working at the time with an electron refining unit used for high temperature crystal growing for semiconductors. The equipment carried 15,000 volts at high current.

Phi Lambda Upsilon Elects New Members

The following students were elected to the Beta Alpha chapter of Phi Lambda Upsilon, honorary chemical society: Hans Christian Anderson '62, course V; Henry A. Becker G, X; Donald E. Buzzelli G, X; Roy A. Chin '61 X; Stephen Chwastiak G, III; Paul M. Cox '61, X; John M. Deutch '61, X; John W. Frankenfeld G, V; Henry L. Gabelnick '61, X; Grady W. Harris '61, X; Stanley Herzog G, X; Berton M. Lapidus G, X; George Lukas G, V; James L. Manganaro '61, X; John W. Nestor, Jr. G, X; Thomas L. Popper G, V; Arie Ram G, X; Philip A. Ruziska '62, X; Robert S. Slott G, X; Jay E. Sobel '61, X; Jon R. Valbert G, X; and Stephen F. Zabielski, Jr. '61, X.

The Tech



Vol. 80 No. 39 Cambridge, Mass., Friday, January 6, 1961 5 Cents

Chemistry Head Honored

Arthur C. Cope Named ACS Pres.



Professor Arthur C. Cope, Head of the Department of Chemistry.

Professor Arthur C. Cope, head of the MIT Department of Chemistry, took office January 1st as President of the American Chemical Society. Professor Cope is internationally known for his research in organic chemistry. He has made important contributions in the field of chemical mechanisms, structure of antibiotics and other pharmaceutically active compounds, and chemical warfare agents.

Awarded ACS Prize

In 1944, Dr. Cope won the American Chemical Society Award in Pure Chemistry. This prize is given for work of unusual merit by an individual on the threshold of his career.

Dr. Cope was Chairman of the ACS Board of Directors in 1960, chairman of the ACS Division of Organic Chemistry and of the Society's Northeastern Section. He is a member of the American Association for the Advancement of Science, the National Academy of Sciences, the American Academy of Arts and Sciences, Sigma Xi, Alpha Chi Sigma, Phi Kappa Phi, Phi Lambda Upsilon, Gamma Alpha, and Sigma Nu.

Professor Cope received his B.S. degree from Butler University in 1929, and his Ph.D. degree from the University of Wisconsin in 1932.

Gus Solomons '61 Featured Dancer In "Dance '61" Program

The Technology Catholic Club will present The Dancemakers in a program of modern dancing entitled "Dance '61" on Saturday, January 14, at 8:30 p.m. in Kresge Auditorium at MIT.

The Dancemakers group was formed in June of 1959 by Martha Baird, modern dance instructor at Pine Manor Junior College in Wellesley, and is affiliated with the Dance Circle of Boston. Members of the Group are Gus Solomons, Jr., Susan Kinney, Mary-Ita Hoffman, Ruth Emerson, and Martha Baird.

Tickets at \$1.50 and \$2.00 are available from Box 600, 420 Memorial Drive, Cambridge 39, Mass., or by telephoning UN 4-6900, extension 2902 (from 9 to 5), and extension 2734 (evenings).

Dr. Draper Cited As A Man Of The Year

Dr. Charles S. Draper, head of the MIT Instrumentation Laboratory and developer of the inertial guidance system for intercontinental ballistic missiles, was featured on the cover of Time magazine as one of the world scientists named as Men of the Year.



C. Stark Draper

The Institute's telephone system has 2800 extensions.

The Institute's telephone system is larger than that of the average town.

Distinguished MIT Alumnus And Canadian Statesman Dies

The Right Honorable Clarence Decatur Howe '07, distinguished Canadian statesman, died in Montreal on December 31. Mr. Howe was a prominent MIT alumnus and a member of the Corporation, having been elected a Life Member in 1958.

Mr. Howe graduated in Civil Engineering, and after a brief stay on the civil engineering staff he joined the faculty of Dalhousie University as a Professor of Civil Engineering.

He was elected to the Canadian House of Commons in 1935 as a member of the Liberal Party and in the following decades turned his energies to the economic and political development of Canada. At various times during his public career he held the offices of Minister of Railways and Canals, Minister of Marine, Minister of Transport, Minister of Munitions and Supply, Minister of Reconstruction and Supply, and Minister of Trade and Commerce. As Minister of Defense he was responsible for the co-ordination of Canada's wartime industries during World War II.

Mr. Howe retired from politics in 1957 to a post as Chancellor of Dalhousie University.

Student On Probation

JudComm Takes Action On Baker House Incident

By John E. Smith, Jr. '61

Upon investigation of a complaint concerning damages done in the east hall of the first floor of Baker House during the Club Latino party of November 12, 1960, the Institute Committee Judicial Committee found that the conduct of the individual responsible was something less than desirable.

During the course of the evening the individual concerned, in Baker House to attend the Club Latino party, went into the east hall of the first floor. He was observed by several residents of Baker House removing light bulbs and smashing them against the walls. When asked to stop this and leave he was rather offensive to the residents concerned. The individual was under the influence of alcohol at the time the incident occurred.

During the same evening similar damage was done to a

men's room in the same hall. There were no observers present when this damage was done.

In light of these events, the Institute Committee Judicial Committee takes the following action: The individual concerned is ordered to pay for the damages, and he will be on Judicial Committee probation until he graduates from the Institute. The Committee has decided to withhold the name of the individual.

This complaint was heard by the Institute Committee Judicial Committee because the individual responsible was not a dormitory resident. The Committee feels that when a person enters another living group as a guest, he is responsible for the observance of the rules and normal standards of behavior of that living group. In future breaches of conduct of this nature, this Committee will tend to be less lenient in its actions.

Choral Society's "Christmas Oratorio" Success

By Dennis Johnson '63

Sunday afternoon, December 18, found Kresge Auditorium filled to capacity for the MIT Choral Society's presentation of the "Christmas Oratorio" by J. S. Bach. The size of the audience was an indication of what the audience expected from the Choral Society, and the magnitude of the applause was an indication that it got what it expected.

The Oratorio is divided into six parts, and covers the twelve days of the celebration of Christmas — from Christmas Day to the celebration of the Epiphany. Quotations directly from the Lutheran Scripture, sung by the Evangelist and the solo soprano, bring forth responses from the other soloists and the chorus. The familiar words, "Now it came to pass in those days . . ." take on a new beauty when coupled with the music from Bach's pen.

Although the individual pieces in this work lack the melodiousness of those in Handel's "Messiah", they contain a power and spirit which generally surpasses that other great composition. Bach has incorporated many styles of music in the "Christmas Oratorio". One effect very noticeable is beautiful duet, trio, and quartet work among the soloists.

The work was scored for chorus, soloists, orchestra, and organ. The entirely professional or-

chestra which was engaged for this performance was greatly responsible for the remarkably pleasant intonation and precision throughout the afternoon. The clarity of the tenor voice of



Blake Stern matched him perfectly to the part of the Evangelist. Very fine performances were also given by Catherine Rowe, soprano, Eunice Alberts, alto, Donald Sullivan, tenor, and Paul Matthen, bass. Their professional interpretation gave a fine effect. The chorus did a splendid job. Their enunciation was pleasingly clear, and they performed with professional competence. Although the altos were occasionally overpowered too much, the general balance was admirable.

Though at the beginning of the program the dynamic contrast of the chorus as a whole was non-existent, they soon warmed up to sing with rather good expression.

Much credit is owed to Klaus Liepmann, the conductor whose knowledge and feeling for the "Christmas Oratorio" was transmitted flawlessly through his baton to all the performers amassed on the stage of Kresge. The glory of the concert far outshone its small flaws, and it left the audience with an inimitable feeling for the Christmas season.



Donald Sullivan



Catherine Rowe

Aliens Must Register

Foreign students are reminded that during January all aliens must report their address to the United States Government.

Address report card (Form I-53) is obtainable at any United States Post Office or the Boston office of the US Immigration and Naturalization Service, Room 406, Diab Bldg., 150 Tremont Street, Boston.

All non-citizens are required to comply with this law; failure to do so may result in fine, imprisonment, or deportation.

MIT will be featured as the cover story in the February issue of Fortune magazine.

FRI., JAN. 6, 1961

THE TECH

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On Campus with Max Shulman

(Author of "I Was a Teen-age Dwarf", "The Many Loves of Dobie Gillis", etc.)

1961: YEAR OF DECISION

Well sir, here we are in 1961, which shows every sign of being quite a distinguished year. First off, it is the only year since 1951 which begins and ends with the Figure 1. Of course, when it comes to Figure 1's, 1961, though distinguished, can hardly compare with 1911, which, most people agree, had not just two, but three Figure 1's! This, I'll wager, is a record that will stand for at least two hundred years!

1911 was, incidentally, notable for many other things. It was, for example, the year in which the New York Giants played the Philadelphia Athletics in the World Series. As we all know, the New York Giants have since moved to San Francisco and the Philadelphia Athletics to Kansas City. There is a movement afoot at present to move Chicago to Phoenix—the city, not the baseball team. Phoenix, in turn, would of course move to Chicago. It is felt that the change would be broadening for residents of both cities. Many Chicago folks, for example, have never seen an iguana. Many Phoenix folks, on the other hand, have never seen a frostbite.

There are, of course, certain difficulties attending a municipal shift of this size. For instance, to move Chicago you also have to move Lake Michigan. This, in itself, presents no great problem, what with modern scientific advances like electronics and the French cuff. But if you will look at your map, you will find that Lake Michigan is connected to all the other Great Lakes, which in turn are connected to the St. Lawrence Seaway, which



in turn is connected to the Atlantic Ocean. You start dragging Lake Michigan to Phoenix and, willy-nilly, you'll be dragging all that other stuff too. This would make our British allies terribly cross, and I can't say as I blame them. I mean, put yourself in their place. What if, for example, you were a British workingman who had been saving and scrimping all year for a summer holiday at Brighton Beach, and then when you got to Brighton Beach there wasn't any ocean? There you'd be with your inner tube and snorkel and nothing to do all day but dance the Lambeth Walk. This, you may be sure, would not make you NATO-minded!

I appeal most earnestly to the residents of Chicago and Phoenix to reconsider. I know it's no bowl of cherries going through life without ever seeing an iguana or a frostbite, but I ask you—Chicagoans, Phoenicians—is it too big a price to pay for preserving the unity of the free world? I am sure that if you search your hearts you will make the right decision, for all of us—whether we live in frostbitten Chicago, iguana-ridden Phoenix, or narrow-lapped New Haven—are first and foremost Americans!

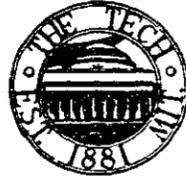
But I digress. We were speaking of 1961, our new year. And new it is! There is, for one thing, new pleasure in Marlboro Cigarettes. How can there be new pleasure in Marlboros when that fine, flavorful blend, that clean easy draw filter, have not been altered? The answer is simple: each time you light a Marlboro, it is like the first time. The flavor is such that age cannot wither nor custom stale. Marlboro never palls, never jades, never dwindles into dull routine. Each pack, each cigarette, each puff, makes you glad all over again that you are a Marlboro smoker!

So, Marlboros in hand, let us march confidently into 1961. May good fortune attend our ventures! May happiness reign! May Chicago and Phoenix soon recover from their disappointment and join our bright cavalcade into a brave tomorrow!

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The makers of Marlboro and of the new unfiltered king-size Philip Morris Commander join Old Max in adding their good wishes for a happy and peaceful 1961.

The Tech



The Present and Future MIT Man

Coming back to MIT after a vacation is rather like crawling back into a cocoon for most of us. The process of insulating oneself away from everything but quizzes, problem sets, and labs usually takes but a short while.

As MIT students, so cognizant of so many things in our own respective fields, we somehow manage at the same time to be totally unaware in a number of other, more important ways.

Techmen as a rule choose to be unaware of their standing relative to other science and engineering students in this country. They have a strong tendency to tie their entire outlook and frame of mind to the present level of their cum, dooming themselves to a perennially unhappy existence if their grades are not what they "should" be. These men would be better advised to spend less time in the pursuit of "grades" as such, and more in the pursuit of knowledge.

MIT students tend for the most part to be unaware of the literary and intellectual world of the humanities. C. P. Snow, a British scientist and novelist who last month gave the Godkin Lectures at Harvard, discusses this problem in general in his recent publication *The Two Cultures and the Scientific Revolution*, a book which MIT men would be well-advised to read. The lack of communication and vague sense of distrust between us and our Harvard counterparts is mutual, he maintains. We would submit that the denizens of the scientific world, in particular the MIT denizens, are somewhat better acquainted with the world of the humanists than they are with ours. An MIT man may have read and understood a Shakespearean play, but ask someone who has had a "good liberal arts education" to explain the Second Law of Thermodynamics to you. But we are not excused. Our knowledge is still trifling; the gap, abysmal.

MIT tries, in a vague, general way, to puncture the insulation, to bring us to an awareness of "the other culture". It is an improvement relative to the school's past, but hardly enough. The general aim exists, as set forth in the General Catalogue; but too frequently the policy of broad education is not implemented by the instructors who are in daily contact with the undergraduates.

The spirit of the humanities does not have a general toehold outside MIT classrooms. Indeed, this may be the key. MIT seeks to educate "whole men"; a number of (very good) humanities courses are instituted over the years.

Techmen, responding as Techmen, treat them as just what they are: courses. Like thermodynamics and calculus, to be taken and hopefully, passed. And then, along with any of the rest of his courses which have not impinged sharply on his existence, have not "come home" to him, to be forgotten.

The world, in the midst of the Scientific Revolution, needs scientists and engineers conversant with more than the technicalia of their own fields, says Snow. They must be able to see themselves in historical context, to have some idea of the relationship of their world to the world of the humanities.

Such men are not produced by writing a "humanities requirement" of eight courses into the curriculum. This is a start, but nothing more than that. A different atmosphere from the one that now prevails outside the classroom is necessary. Somehow the man who is uninterested in a history or a philosophy course must become the odd stick, not the reverse.

As one of the most respected sources of technically and scientifically educated men, MIT will be expected to produce the sort of scientist and engineers Snow describes. It is not doing so now.

Why?

Just for the sake of completeness, we wish to note that on the Thursday before vacation, the Athletic Board passed the motion that the Intramural Council had wisely defeated the week before. Yes, you guessed it, all men on intercollegiate teams are to be denied participation in all intramural games, except with written permission of the proper coach.

We are convinced that in so doing the Athletic Board acted contrary to the best interests of the MIT student body; we have defended this point of view in print on four separate occasions in the past. Our opposition was voiced early and often. Then too, a vote, on December 3, of fraternity presidents speaking for their houses (the living groups most directly concerned) revealed a 26-2 sentiment against the measure.

In the face of this antipathy we feel that the Athletic Board owed (and still owes) the MIT Undergraduate Association, a public explanation of its reason(s) for passing the measure.

The Tech

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January 6, 1961

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Entertainment — 2 p.m. Tuesday
Photography, Letters to the Editor — 3 p.m. Wednesday
News, Sports — 8 p.m. Wednesday
Makeup: Entertainment — 4 to 5 p.m. Tuesday
News, sports, editorials — 7 to 11 p.m. Wednesday

Pistol Team Splits 2 Matches

Tech's pistol team opened its five-meet intercollegiate season in the week before vacation, downing the University of Massachusetts and losing to Army. The totals read Army 1398, MIT 1299, UMass 1275.

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Six men fired for Tech, and ten for Army, with five scoring. The meet leader was UMass' Fritz, a top contender for national honors.

In Greater Boston Pistol League competition, the Tech squad is second to the MIT Faculty team in B division.

Coast Guard will fire the Techmen at the Armory tomorrow, and Navy will shoot here next Saturday. Another match with Coast Guard is scheduled in February before the sectionals at West Point February 18.

Icemen Are Defeated By Colgate And UMass.

The varsity hockey team dropped its last two games before the vacation, losing to Colgate, 9-4, on Briggs Rink and falling at the University of Massachusetts, 4-2. The losses brought the season mark to one win, two defeats and one game (New Hampshire) cancelled due to snow.

The predominantly at-home schedule resumes tomorrow with WPI here at 7 p.m. Last year Tech downed WPI twice. Following an away game at Amherst Wednesday, Pennsylvania invades the Tech rink next Friday in the last game before the term break.

Bowdoin Nips Cagers, 71-65 Two Home Games Next Week

By Edward M. Schneider '62

As its foul shooting goes, so goes the MIT basketball team. The Engineers dropped their third in a row, to Bowdoin, before the Christmas holidays, after falling apart on the free-throw line.

In the first half, Tech was eleven for eleven from the foul line. Phil Robinson's '62 twenty-foot push shot with seven seconds left in the half gave MIT a 37-36 edge. It was a real battle in the opening minutes with Bowdoin controlling

the play but committing an unhealthy number of fouls.

With Dave Koch '62 hitting Tech moved out to a 49-43 lead with seven minutes gone in the second half. A minute later when Chuck Gamble '62 swished a running push shot, the Engineers had a seven point lead. The tables turned. MIT missed five foul shots in a row while Bowdoin hit from all corners.

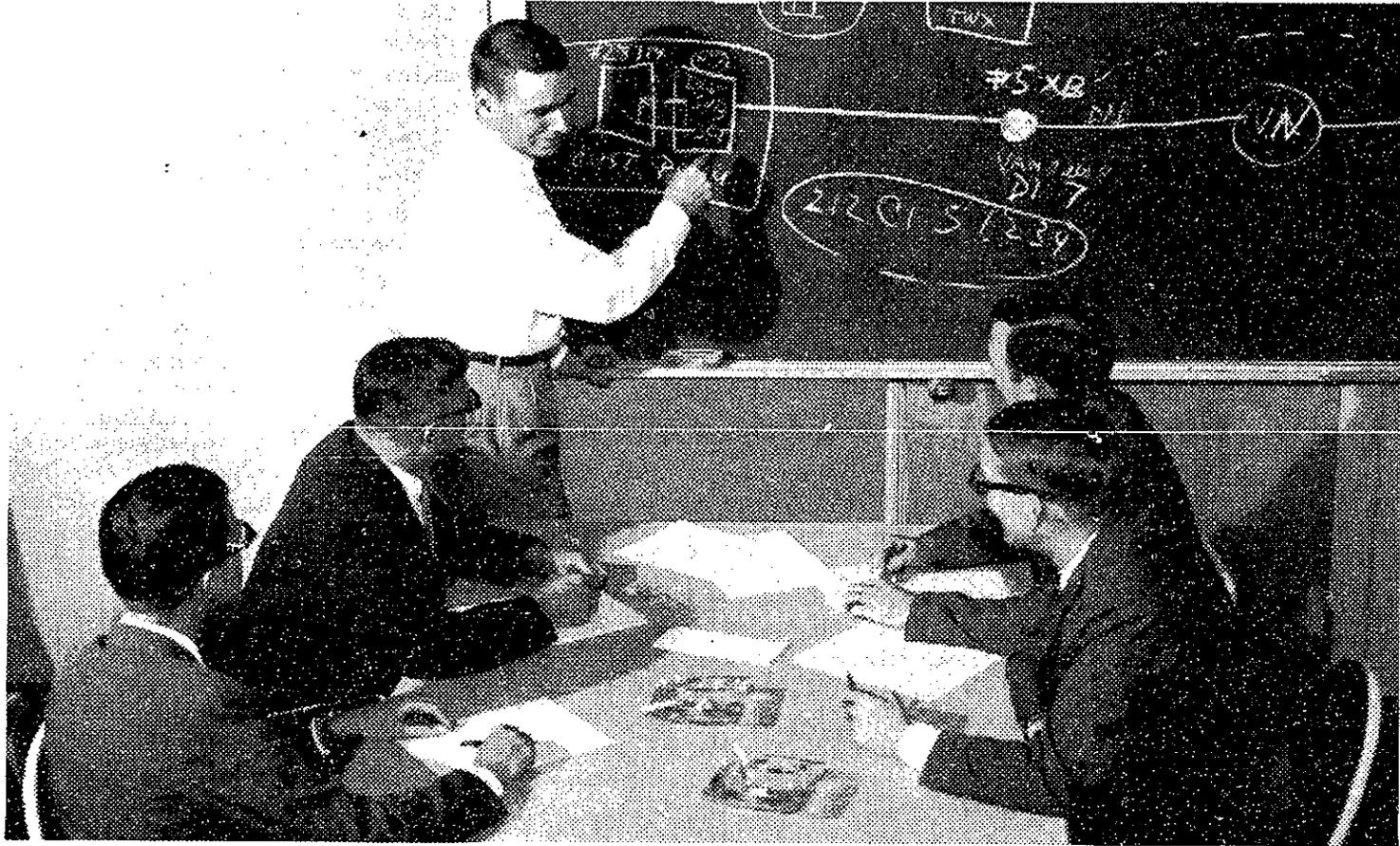
With two and one-half minutes left, it was knotted at all, and Bowdoin pulled away to a 71-65 lead as the buzzer sounded. Tech was only eight for fifteen from the foul line in the second half. Koch had seventeen points while Tom Burns chipped in with sixteen.

MIT will try to start the new year off right as they travel to Coast Guard tomorrow, with Union and Lowell Tech in the games on Tuesday and Thursday nights.

Squash Team Is Beaten By Visiting Army, 7-2

The varsity squash team bowed to Army in pre-vacation activity, 7-2. Captain Farid Saad '61 provided spectacle with the most excitement of the evening, edging West Point's Boss, 3-2. Frank Labouisse '61 scored the other Tech victory.

Also in action for MIT were Loutfy Elsherbiny '61, George Meyer '62, Ravi Sikri '62, Ben Rapaport '62, Joe Strutt '62, Peter Svahn '63 and Matthe Lind '63.



STU'S EXPLAINING HOW MACHINES WILL SOME DAY "OUTTALK" PEOPLE

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Coeds See Action

Riflemen Extend Victory Streak

The last Friday before vacation saw the MIT Rifle Team defeat an old nemesis, Northeastern, by a score of 1426 to 1395 at the home range. The range was graced by the presence of two Northeastern Coeds who turned in creditable performances for their team. Scott Draper, also of Northeastern, had the top individual score of 290. Nevertheless, last year's New England League and Greater Boston League champions had been hard hit by graduations and were soundly defeated. The top MIT shooters were Bob Clark '63, 289; Steve Smith '62, 286; and Richard Ludeman '63, 285.

Latest tabulations show MIT leading the 16 team New England League with an undefeated record and a high team average of 1423. Tech men also hold six of the top twenty places in individual averages and several others are close behind.

After a two week vacation lapse, serious practice is now underway to prepare for the Naval Academy match on January 17 and a series of seven matches against equally strong competition at mid-term. Though Navy traditionally has one of the strongest teams in the nation, last year at Annapolis the midshipmen won by only ten points, 1436 to 1426.

The primitive MIT range should be quite a shock to the Navy shooters who are used to their own fine range of twenty firing points. Though the highest MIT team effort this year has been a 1429 against Norwich, individual scores show a potential considerably higher, and prospects for a victory are good.

How They Did

Hockey
Colgate 9 MIT 4
UMass 4 MIT 2

Rifle
MIT 1426, Northeastern 1395

Pistol
Army 1398 MIT 1299
UMass 1275

Squash
Army 7 MIT 2

Basketball
Bowdoin 71 MIT 65

Wrestling
MIT 18 Williams 6

Wrestlers In 18-6 Win Over Williams

The varsity wrestling team preserved its undefeated status before vacation, whipping Williams, 18-6. Tech won six of the eight matches. No pins were recorded.

Co-captain Dave Latham '61 scored a 2-0 decision in the 130 pound class to head the victory. Greg Brown '62 maintained his undefeated record with a 5-0 decision in the 147 pound competition.

Also scoring victories for Tech were sophomores Jim Evans 137 (7-6), John Sullivan 157 (6-1), Tom Gerrity 167 (5-2) and Mike Williams 177 (5-0). Defeated for the home squad were Joe LaPrade '62 in the unlimited grappling and Mack Harris '63 in the 123 pound match.

In their only test this month the matmen travel to Coast Guard Wednesday.

WHY PAY \$\$\$

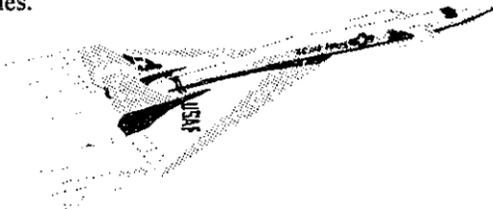
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ENGINEERS-SCIENTISTS HAMILTON STANDARD

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ENGINEERS—BS, MS, Ph.D degrees in EE, ME, MET for outstanding career positions in analytical, design and development engineering.

SCIENTISTS—BS, MS, Ph.D degrees in Physics, EE, ME for challenging new study programs in Missiles & Space systems, Electron Beam Technology and our Research Laboratories.



A typical project under development: the air induction and environmental systems for the B-70 bomber.

On Deck

Today, January 6
Fencing with Cornell 7:30 p.m.
Rifle (F) at Northeastern

Tomorrow, January 7
Fencing with Trinity 2 p.m.
Squash with Williams 2 p.m.
Swimming with Coast Guard 2 p.m.
Hockey with WPI 7 p.m.
Track at Northeastern and Tufts (V&F)

Tuesday, January 10
Basketball with Union 8:15 p.m.

Wednesday, January 11
Squash with Amherst (V&F) 7 p.m.
Swimming with Wesleyan (F&V) 7 and 8:30 p.m.
Wrestling at Coast Guard (V&F)

Thursday, January 12
Hockey at Amherst (V&F)

Friday, January 13
Fencing (F) at Harvard
Basketball (F) at Phillips
Basketball with Lowell Tech 8:15 p.m.
Hockey with Pennsylvania 7 p.m.
Squash at Princeton

WANTED

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JOAN BAEZ

Sat., Jan. 14
8:30 P.M.



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Ten Students Participate

Russian Dorm Set Up In Atkinson

Ten second year Russian students have formed the first language dormitory at MIT on third floor Atkinson. The development of fluency in verbal Russian is aided by their faculty advisor, Mr. David Perlmutter.

Almost in Russia

The purpose of the group is "to live in Russian." In the dormitory the students converse and joke in Russian. Daily Mr. Perlmutter places dialogues of important conversational idioms in certain unavoidable places. Most of the signs, maps, and wall decorations are in Russian or concern Russian culture. In addition to regular school Russian the group has learned a complete vocabulary of Russian obscenities so that all aspects of living can be carried on normally.

Like many serious language students, they have a keen desire to visit the country in which the language is spoken. Most of the members have tentative plans to visit Russia in the near future. One of the ultimate goals of the language dorm is an exchange studentship with Russia. A student exchange program of this type is already in effect at Harvard and Columbia.

This is the first year that MIT has had a language dormitory, and as such it is somewhat of an experiment. The group hopes that it will be able to continue and expand the program next year. There is a definite possibility that language living groups in other languages will be formed in the near future.

The students have developed a keen interest in everything Russian. One of their favorite pastimes is singing Russian folksongs to the accompaniment of a guitar. Some of the students have even obtained records of Russian folksongs.

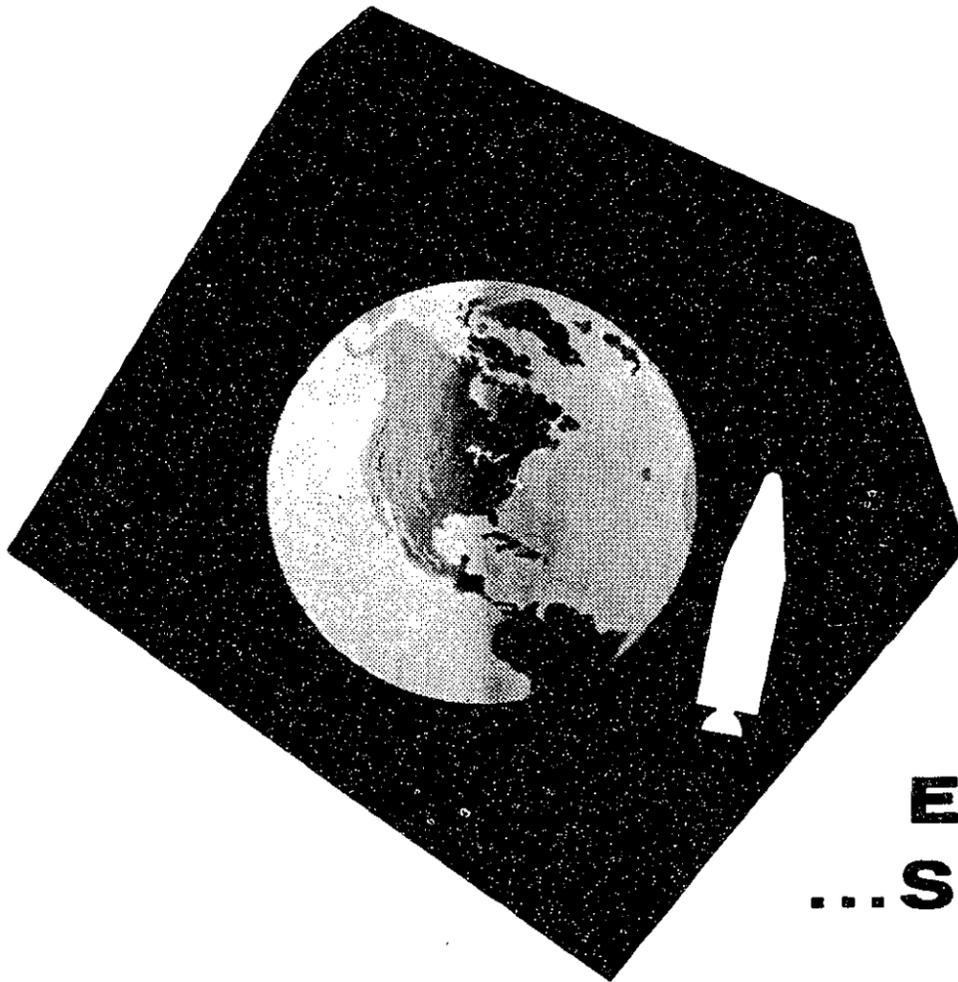
Recently Miss Joan Barth spoke informally to the group on her experiences in Russia. Miss Barth, a participant in the 1959 American Exhibition to Russia, was accused by the Soviets of having recruited Russian youths as American spies.

Houser Gets Life

Theodore V. Houser, retired chairman of the board of Sears, Roebuck and Company, has been appointed a Life Member of the Corporation of the Massachusetts Institute of Technology. Mr. Houser is joining a group of distinguished national leaders in business, industry, and education who are serving as Life Members.

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ENGINEERS ...SCIENTISTS

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Lockheed Missiles and Space Division in Sunnyvale and Palo Alto, California, on the very beautiful San Francisco Peninsula, is constantly probing all the sciences related to missiles and space projects. These cover the complete spectrum—from human engineering through celestial mechanics—providing a fascinating challenge to those whose interests lay beyond the ordinary day-to-day job.

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Further, Lockheed strongly encourages continuing education and advanced degree work, maintaining two programs in their support. Lockheed's *Tuition Reimbursement Program* remits seventy-five percent of the tuition for approved courses taken by professional and technical people who are working full time. The *Graduate Study Program* permits selected engineers and scientists of outstanding scholarship and professional potential to obtain advanced degrees at company expense while employed on research assignments.

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January 8-14

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January 15-21

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January 22-28

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