

Levinthal Blasts Threshold Theory; Calls Teller A Ruthless Experimenter

By George Lakoff, '62

Cyrus Levinthal, noted geneticist, this week refuted the contention of atomic scientist Edward Teller that there is a threshold below which a dose of radiation ceases to affect an organism. Teller has used the threshold theory in his recent arguments for the continuance of nuclear bomb testing.

Levinthal, professor of Biophysics at MIT, mentioned that there is a threshold in the singular case of radiation sickness. But this, he said, is not important in the present controversy in which concern is centered about the effects of the relatively small doses of radiation which arise from nuclear fallout. The effects of radiation which most concern us now are cancer, leukemia, and mutation. All evidence to date, Levinthal declared, leads to the conclusion that there is no threshold with respect to these effects.

Since little data exists on the effects of radiation on humans, Levinthal has based his conclusions on the results of experiments with non-human organisms. Extrapolation from these data to effects on human beings is however made possible by the fact that cancer, leukemia, and mutation in an organism depend directly upon what occurs at the level of the individual cell. "For example," said Levinthal, "if you take a cancerous cell in general, you find that all of its descendants are cancerous cells. From this fact we conclude that when a normal cell is changed into a cancerous cell, a change is also made in the cell's hereditary structure."

"All experiments with such cells," Levinthal said, "have shown that any long-term changes in cells are directly proportional to the dose of radiation. This has held true for experiments which have been carried on down to the point at which on the average there was less than one ionization per cell." Such a proportionality would, of course, indicate that there is no threshold. And if there is no threshold at this level, Levinthal said he could not see how any threshold for cancer, leukemia, and mutations could possibly exist.

Blasts Teller

Levinthal coupled his renunciation of the threshold theory with a blast at Teller for trying to experiment with human life on a large scale. "Teller, as a scientist, enjoys playing with his experiments," Levinthal said, "but there are some experiments we just don't let people perform — for instance, those which harm human beings."

Levinthal's criticism of Teller may be substantiated both in Teller's testimony in the trial of Robert Oppenheimer and in the book "Our Nuclear Future", on which Teller and Albert Latter collaborated. In chapter fifteen of "Our Nuclear Future", Teller lists his arguments in favor of continued bomb testing. But despite the political nature of all the arguments, Teller winds up the chapter boosting experimentation for its own sake:

"... There are many specific political and military reasons why such experiments should not be abandoned. There also exists this very general reason — the tradition of exploring the unknown."

More to the point is Teller's testimony at the Oppenheimer trial. This is Teller's account of the "psychological reaction" of the scientists at Los Alamos, including himself, when the General Advisory Committee of the AEC, headed by Oppenheimer, recommended against a crash program to develop the H-bomb:

"First of all, people were interested in going on with the thermonuclear device because during the war it had been generally understood that this was one of the things that the lab was to find out at one time or other. It was a sort of a promise in all of our minds. "Another thing was that the people there were a little bit tired — at least many, particularly of the younger ones — of going ahead with minor improvements and wanted to in a sort of adventurous spirit go into a new field."

"However, I think the strongest point and the one which was a reaction

(Continued on page 7)

Junior Prom Date Set Pattern to Be The Same

The first week in November has been tentatively set as the date for next year's Junior Prom according to Max Snodderly, '62, head of the JP committee.

The prom, according to Snodderly, will follow the pattern of recent years with a formal dance on Friday night and an informal affair on Saturday night. Plans are now being made for entertainment for the affair, but nothing is certain as yet. Although the format for the weekend will follow that of past years, Snodderly emphasized the fact that the committee was open to suggestions.

Two new members, Frank Osha, '62, and Erich Ippen, '62, have been added to the committee. The purpose for adding these members was to give the dorms representation on the committee in Osha and to fill a vacancy caused by the resignation of one member.

Grand Finale Dance Show Ends International Week

By S. S. Soo, '63



— Photo by Allen Rosenberg, '63

After half an hour's delay, the International Dance Show finally got under way last Saturday night. Kresge was packed, the audience was enthusiastic, and the show was good.

Unfortunately for your reporter, however, two obnoxious specimens of the class of '63 sneaked in after intermission and made him miserably, by their similarity to Ingard's Harmonic Oscillator, causing him to vibrate in resonance. Otherwise everything was fine.

Everyone did his (or her) best, and Professor Wood, the emcee, was at his funniest. Colour and variety dominated the show and at its end everyone was satisfied.

Israel and Scotland performed ably, but the gay rosy cheeked Lithuanian children captivated the audience with their charming dances and drew rousing ovation. Persia was represented by one person, and most creditably too.

Intermission; and everyone was speculating on what was to come. To quote Dean Fassett, "Very Good, Very Good". The buzzer signalled the end of the fifteen minutes and Kresge filled again.

First Lady (One row behind your reporter): "What is that music, India?"

Second Lady: "No, China. Yes, it's China, look at the gorgeous dress."

First Lady: "Oooh! It's exquisite."

India contributed a peasant's harvest dance. Then the Ukrainians came on stage. Pankiwskyj with his mustache quivering, inveighed *The Tech* on misprinting the name of the dance as "Hopka" instead of "Hopak". Then they went on to dance the Hopka. Three gaunt peasants, and three beautiful peasantesses, they leaped about on the stage, they whirled, they bounced. The vigor they radiated to the audience and injected into the dance was superlative.

Finally Gus Solomons represented the United States by dancing Aaron Copland's "Blues".

All the performers returned on stage for the finale. Over eighty persons each dressed in their national costumes presented a profusion of colour and style. The preamble to the Charter of the United Nations was delivered and the curtain closed slowly to thunderous applause.

So ended a memorable evening.

The Tech



NEWSPAPER OF THE UNDERGRADUATES OF THE MASSACHUSETTS INSTITUTE OF TECHNOLOGY

VOL. LXXX No. 11 CAMBRIDGE, MASSACHUSETTS, TUESDAY, MARCH 22, 1960

5 Cents

IFC STUDIES SCHOLASTIC STANDING VERDERBER PROPOSES LEGISLATION

"The IFC, as a group, can no longer be content with a gentleman's C, or 3.0," cried retiring Chairman Joe Verderber, '60, as he introduced his motion concerning fraternity scholarship at the Intrafraternity Conference meeting last Thursday night.

Any house falling under a certain average for two terms in a row would be placed on special IFC probation. The break-off point was designated a ten per cent below all-men's average. Past figures indicate this minimum rating would range between 2.9 and 3.2, and according to Verderber, roughly three houses fall below this mark each term.



Two fencers are shown above giving a demonstration in the lobby of Building 10 Friday to help raise funds to send the American Olympic team to Rome this summer.

— Photo by Boyd Estus, '63

To Limit House's Activities

The motion would prohibit any house failing scholastically from participating, as a group, in intramural sports or open social events (such as Sigma Iota Phi meetings).

In the event the penalized house rose above the "ten-below" mark for two consecutive terms, the social probation would be removed. Verderber brought out the fact that records showed that only one house a year would have been penalized had the rule been in effect.

Ted Jarman, '61, moved to table Verderber's motion until next IFC meeting in order to give fraternity representatives a chance to obtain definite views on the subject. The IFC passed the tabling motion.

George Stivers, '61, IFC Scholastic Chairman, in advocating hiring of a trained psychologist to study fraternities' scholastic attitudes, stressed that "scholarship, to a large extent, depends on a fraternities outlook on life."

The IFC, working with MIT's psychology department would find a trained group dynamicist to act as director of each fraternity's "self-analysis." George estimated that the cost of hiring this psychologist would be between 150 and 200 dollars per house.

Stivers reported finding a cycle in fraternities' scholastic standings over a ten-year period. He said, "The fraternities now oscillating at one end of the scholastic scale were oscillating at the opposite end ten years ago."

Stivers reported that group dynamicists at MIT pointed out that a group's attitude would not be changed by negative criticism. The psychologists also stressed that the group concerned must discover the problem by themselves; if they couldn't, it probably cannot be discovered anyway.

Grad Student Considered

Stivers said the group was considering finding a psychologist with a MS, who is working on his doctorate, to be hired for the full-time job. The MIT

(Continued on page 3)

Student Literary Efforts In Tangent Tomorrow

TANGENT, the MIT literary magazine, will sell for the second time this year tomorrow in Buildings 2, 10, and 1. Featured in the sixty-page magazine are three short-stories, two essays, and several poems, as well as drawings by, among others, Don Hatfield and Juliet Kepes. A number of the poems are by Alexei Vergun, who appeared in the winter TANGENT and who will soon be published in an anthology of contemporary poets.

TANGENT is the descendant of the old ARABESQUE, which first appeared two years ago. At present a third issue is planned for May. Sketches and ink-drawings, as well as literary efforts of all sorts — creative, humorous, analytical, political — will be welcomed and should be submitted to Mrs. Blender in Room 14-N-410.

SUMMER SCHOOL

The 1960 Summer School Catalogue will be available tomorrow in the Information office, Room 7-111, according to John I. Mattill, of the Public Relations Office.

Where's SCEP?

An ad hoc sub-committee of Incomm has been formed to investigate the possibilities of an Honor System at MIT. The mere mention of the idea brings to mind a whole host of problems connected with the inception of such a system. At present the group is polling faculty and student opinion on the subject, and hopes to report with an itemized list of pros and cons in the weeks following vacation. We look forward to their report, but before the work progresses any farther, we must question the omitting of SCEP from any part of it. What is the purpose of maintaining a Student Committee on Educational Policy if not for just such investigations as this? SCEP is often accused of inaction and lack of real purpose. The proposal of an Honor System for MIT is a golden opportunity for this group to prove that it is worthwhile. We are surprised at SCEP and the Institute Committee for not making the Student Committee on Educational Policy the leaders of the investigation. Why set up a separate committee when one already exists? If it is felt, as is conceivable, that work such as this is better carried out by special sub-committees, then what is the use or importance of SCEP? We suggest that the new Incomm either integrate SCEP with the current investigation of the Honor System, or seriously question the need for its existence. For if not for this, for what?

Fraternity Scholarship

The question of the academic standing of the fraternities relative to the rest of the school always comes up when the house average ratings are published, but this term a new emphasis is put on this problem by a motion currently before the IFC. Essentially this motion would put on probation any house ten percent or more below all-men's average for two consecutive semesters. This probation including substantial punitive measures — forfeiture of a number of valued privileges — the motion is more than a token move by the IFC to improve fraternity scholarship. This will very definitely affect the houses in a vital area, that of rushing. As such it merits serious consideration by the separate fraternities. We suggest that the present term ratings of the several houses is an irrelevant factor. Discussion of the matter should be more than, "It won't affect us, so why not pass it?" A very relevant question, however, is, "Do the separate fraternities desire the IFC to legislate their standards of academic performance?" We welcome comment on this and other phases of this motion, now, before it is passed or defeated by the IFC.

letters to the editor

Campus Comments On EPIC

Dear Sirs:

As a member of the MIT community, I object to the use of my name as part of the title of an organization as outwardly prejudiced as any KKK'er ever was.

Those of us who prefer to walk the streets without having to worry about meeting a "student" demonstration around the next corner are immediately labeled as Segregationists, Anti-Americans, and Narrow Minded White Supremists. We have been condemned for advocating the elimination of public nuisances. We have been attacked because we are Anti-Riot. The difference between "student demonstration", as used by Southern negroes, and riot, that which follows "student demonstrations," is largely a matter of name only. The interference in the conventional operation of an established business firm by a group of people intent upon the disruption of that conventional operation should be, and is rightfully being, acted upon by proper authorities.

We who would preserve individual rights would point out that; to be prejudiced, to be reactionary, to be ignorant, and to be blind to things as they really are, one need not be anti-negro. We assert that those of our fellow students who profess "liberty and justice for all" meet all these qualifications. Their entire policy reeks of injustice, unfairness, and gross ignorance. Is it fair to picket Tech Drug because the Coop won't sell somebody a coke? Is it justice if a group of individuals attempts to embarrass the local Esso dealer because his counterpart in East Podunk, Tennessee, won't sell gas to somebody? Is it "ethically right" (a term freely bandied about of late) to deprive an innocent storekeeper of his liberty and in the same act profess to be "striking a blow for freedom?" If justice, fairness, and personal liberty are the ends they seek, they should begin their quest by protecting themselves.

I, for one, refuse to have my name, via MIT, connected with a group whose very slogan typifies the total ignorance with which they operate and of which they are so self-righteously proud.

— Richard Neel Sutton, '62

Dear Sir:

The issue of integration has awakened the so-called apathy of MIT students and given interesting material for discussions and . . . letters to the editor.

That the MIT-EPIC used a subterfuge to install a booth in the lobby of Building 10 comes only to prove the inefficiency of Incomm in ruling (?) the student body, whether elected by it or not. I may agree that Mr. Lakoff was uninspired in the tone of his letter to *The Tech*; however I must also agree with him that the issue of discrimination is far more important than a ghost organization, excelling in the art of absence and lack of purpose.

Most of us are too young to even realize what such an issue brought about during World War II. Segregationists who champion the cause of superiority of white men forget the thousands of people, sometimes their own relatives, who died on European battlefields fighting for the prerogatives of democracy and freedom, and the right of existence of the Jewish people. They attack now what they defended yesterday; teen-agers, whose index of intelligence is computed at the savage beat of rock'n roll, call themselves superior because they can throw a stone at a negro; college students conscientiously avoid military service by extending their studies ad nauseam, and ignore the basic facts of a revolution that was theirs in 1776, the fact that blood was shed to preserve the liberty of *Americans*, not of *white* men, the fact that this liberty, this freedom is not to be taken for granted, but respected and admired as a victory of the righteous against the strong.

I despair to see the youth of a country taking a stand against another race for reasons they themselves ignore; it is saddening to see a liberty so hardly gained by shattered and undermined by an entire section of the population who doesn't really know what it is fighting for; it is distressing to find twenty-year-old boys talking of superiority, without a thorough knowledge of the people they think they are superior to. It happened in 1937 and it has a dirty name: fanaticism.

MIT-EPIC may not be an ideal movement. In fact, I believe that many of the students who joined the group did so because it is fashionable, because nowadays you are either out for humanity, or out against something; a middle term might classify you as a conformist. . . . But MIT-EPIC proved that this generation is in trouble, and doesn't seem to know it; for this I think we should thank it.

I do not think that terms such as "brotherhood among men" or "union of fellow men" means anything; I do not think that they explain or help, but only hide issues under emphatic bursts of rolling sentences. I am practical, not idealistic, and there's only one concept I do believe: a country should "ensure the equality of all citizens before the law, without distinction of origin, race or religion".

— Jean Pierre Frankenhuis, '61

To the Editor

The Tech

In the past few weeks, a new attempt of southern Negroes to break chains which deprive them of the rights of citizenship, a heated debate Congress, and the appearance of the "MIT-EPIC", have precipitated much overdue discussion of the entire civil rights question. As one who has long had a strong feeling against unfair discrimination in this country, my immediate thought was to join this group. I decided, however, that it would be better to wait a while to first speak to the EPIC members and get their story, and then to speak to those opposing EPIC before making a decision. I regret that I was unable to attend any of the EPIC meetings, but I have spoken at length to some of the Woolworth picketers, and have consulted dozens of people on both sides of the issues.

Therefore, I feel that I may be able to bring some light to the situation. I will first present some observations, then put in my personal conclusions, and finally present some suggestions. Note each of the conclusions is numbered to coincide with the following observations:

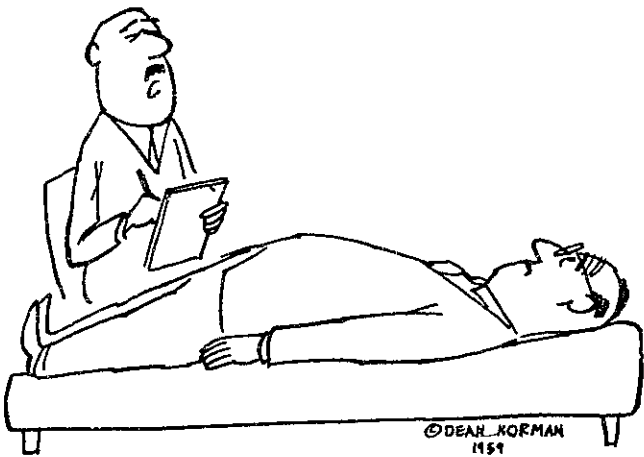
1. The vast majority of those whose first reaction had been to attack EPIC admitted that they had not even had the consideration to speak with the EPIC members and get their views.
2. Most of the EPIC members I spoke to have long been frustrated by the fact that the United States, which has fought many bloody wars to preserve democracy, is still greatly lacking internally in this regard. Thus they have been very much heartened that the southern Negroes are at last taking some initiative in ending their own plight, and they feel an obligation to stand up and show, by letter writing and picketing, their support for this action.
3. The feeling is so strong in some cases that the EPIC members are allowing their school work to slip, and are even considering taking extra term or so to allow time for their cause. Thus they are jeopardizing their own future (I imagine some moron will try to get them a B+ label) for a cause they think is just.
4. However, a small fraction of their supporters are, frankly, the "rabble-rouser" type in the sense that they do not oppose violence and illegal action in a "means to justify ends" framework.
5. The picketers at Harvard Square Woolworth's were completely non-violent, and they assured me that they were opposed to violence. They did not stop anyone from entering the store, but simply carried signs and passed out leaflets and petitions.
6. Those opposing EPIC come under three general classifications:
 - a. Those who still believe in segregation, white supremacy movement, and other forms of racial discrimination.
 - b. Those who claim to be against discrimination, but feel that nothing should be done about it.
 - c. Those who want to do something about it, but are opposed specifically to picketing, or to other faults of the organization.

My conclusions and opinions. Note again that these are numbered to coincide with the above observations.

1. It seems to me that it is the first responsibility of anyone who intends to speak out on something, especially if he is attacking a group, at least has the duty to inform himself first-hand of the exact aims and views of that group.
2. I must admit that along with the EPIC members, I am prejudiced against prejudice, in the sense that I cannot conceive of preventing someone from going to school with me, eating with me, or more important of preventing him from voting, simply because he is a Negro. This feeling presented to a southerner is usually met with some figure (from segregationist sources of course) supposedly proving that the Negroes are inferior. I claim that this is utter nonsense, and that given equality of opportunity the Negroes will produce the same proportion of good and bad as any group. Admittedly it is impossible to prove this because Negroes in this country have *never* been given complete equality of opportunity even in most of the North. It is still very difficult for most Negroes to get jobs other than in low-paying domestic or menial construction work. As a good example, how many times have you ever seen a Negro present a television commercial? Obviously this discrimination is not due to lack of talent.
3. It seems very unfair for people who have no courage themselves to blindly attack a group which is really making a great personal sacrifice, both of personal desires for success at Tech, and of social stature in MIT society which seems (as evidenced by their political learning) to like people who do not stand for anything.
4. Thus while I do not knock most of the organization, I have for the following reasons decided not to join EPIC yet:
 - a. I do not wish to be associated with the few morons who do advocate violence.
 - b. I feel that picketing specifically against a single store in the North would probably hurt the innocent employees of that store more than the owners of the large chains. I would rather see demonstrations, if they are going to take place, in a "neutral" territory such as a stadium, meeting hall, or a public area. This might succeed in "forcing" Woolworth's to change, but along with the letter writing (which I do favor) would serve the more general purpose of publicity for creating a greater body of public opinion for change.
 - c. Finally, I must agree with *The Tech* that their actions without proper permission and their sneering at Incomm (which is, after all, elected by the students in a democratic way) is not truly keeping with the law and order they want to uphold.
5. Regarding demonstrations and picketing in general, President Eisenhower said this week that such things as "demonstrations of march in the streets or any other kind of peaceful assembly that is trying to show what the aspirations and the desires of a people not only are constitutional but also proper." However, he did go on to say that this

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CAMPUS COMEDY



"BASICALLY, AT THE ROOT OF YOUR ANXIETIES, IS THE FACT THAT YOUR STUDENTS HATE YOUR GUTS."

The Tech



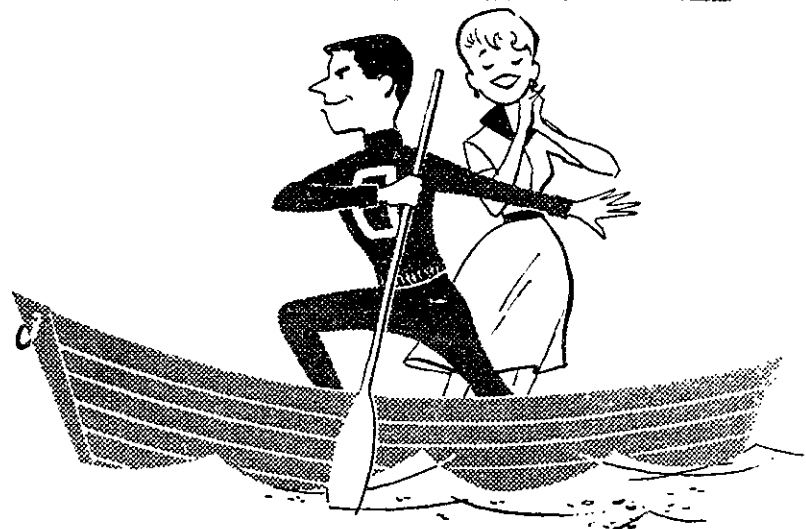
Entered as second class matter at the post office at Boston, Massachusetts. Published every Tuesday and Friday during the college year, except college vacations, by THE TECH — Walker Memorial, Cambridge 39, Mass. Telephones TRowbridge 6-5855-6 or UNiversity 4-6900, Ext. 2731.

VOL. LXXX March 22, 1966 NO. 11

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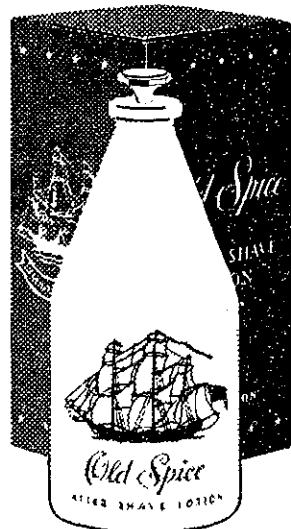
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A Foolproof Method for Rating Your College

Dear Dr. Frood: Do you believe in the theories that Shakespeare was actually either Marlowe or Bacon?

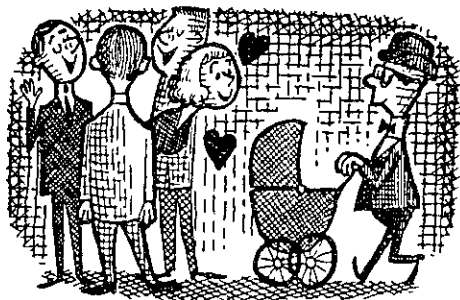
English Major

Dear English: All rot. I have done considerable research on the subject and can prove that Marlowe was actually Bacon, and that Bacon (who was a bit of a ham) was, in reality, Marlowe, and that Shakespeare, an itinerant grape squeezer who could neither read nor write, was, in fact, Queen Elizabeth.¹



Dear Dr. Frood: I have a very serious personal problem. I am secretly engaged to three students here. Just between you and me, however, they are all fools. I really love a certain Professor Bowdley, who is married. What should I do? Needless to say, this letter is *not* for publication.

Millicent Tweedley



Dear Millicent: Your secret is safe with me. I've left strict instructions not to print our correspondence. Confidentially, however, you'll never get Bowdley. I wrote Mrs. Bowdley about the situation, in order to advise you better, and she says Professor Bowdley is too old for you.



¹ See "Shakespeare Was a Grape Squeezer," by Dr. Frood, Frood Publishing Company, '60.

Dear Dr. Frood: Whenever I am with girls, I stutter. Frankly, I think it is because my parents never told me about the birds and the bees. What can I do?

A. W. Shucks



Dear A. W.: You had better read some books on the subject. I especially recommend Mildred Twiddle's "The Bees Are Your Friends," and Agnes Moffet's "Songs in the Treetops."



Dear Dr. Frood: Is there any accepted method for determining the academic ratings of American universities and colleges?

I. V. Leeger

Dear I. V.: Of course. Simply take the total number of graduates and divide by money.

Dear Dr. Frood: Whenever I put my Lucky down, my roommate picks it up and finishes it. How can I stop him?

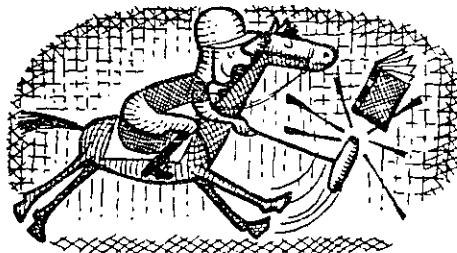
Put Upon

Dear Put: Light both ends.



Dear Dr. Frood: I am just a little bit worried about exams. I have not attended any classes this semester. I have not done any reading, either. I must be in Aiken for the polo matches until the day before exams and, of course, will be unable to study. Any suggestions?

Buzzy



Dear Buzzy: Do you think professors' hearts are made of stone? Just tell them what you told me. I am sure they will understand, and if they don't excuse you altogether from exams, they certainly will arrange some nice little oral quiz you can take at your leisure later on in the summer.

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Techretary Again From Building 8



— The Tech Staff Photo

Building Eight is fast approaching Building Twenty as a haven for good-looking secretaries. Madeleine Piper, this week's techretary, works in Room 8-411.

Called "Birdie" by close friends, Madeleine is 21 (her birthday was Sunday). Five feet two with eyes of blue, Madeleine has honey blonde hair. She is presently living in Brighton — her roommate is Carol Shupbach, first Techretary of the Week.

Madeleine has worked for Professor D. A. Thomas for two and a half years, coming here after graduating from St. Johnsbury Academy. She herself hails from St. Johnsbury, Vermont.

Her hobbies are music and the theatre. In addition she loves to read and sew. Of MIT men, "Birdie" said "The ones I've worked with and been out with were very nice and I have enjoyed associating with them very much."

Madeleine has two miniature statues of Charlie Brown and Linus on her desk. Charlie was given her by some students and she picked up Linus in Syracuse, New York.

I.F.C.

(Continued from page 1)

Psychology department is aiding the scholastic chairman in his search.

The project itself would not be initiated until fall or second term of next year and participation would be upon a strictly volunteer basis. "The ideal situation," said Stivers, "would be to find a person willing to undertake the project free of charge as a part of his doctoral thesis."



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**WTBS
Program
Schedule**

Tuesday
7:30-8:45 A.M. Rise and Shine
5:00 P.M. Caravan
6:00 Jazz
7:00 P.M. Lew Norton Show
9:00-1:00 A.M. Classical Music

Wednesday
7:30-8:45 A.M. Rise and Shine
5:00 P.M. Caravan
6:00 P.M. Jazz
7:00 P.M. John Charles Show
9:00-1:00 A.M. Classical Music

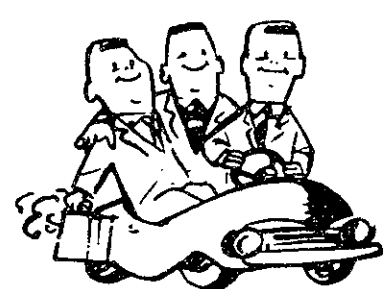
Thursday
7:30-8:45 A.M. Rise and Shine
5:00 P.M. Caravan
6:00 Jazz
7:00 P.M. Lenny Silver Show
9:00-1:00 A.M. Classical Music

Friday
7:30-8:45 A.M. Rise and Shine
5:00 P.M. Caravan
6:00 Jazz
7:00 Fiesta
8:00 Baton Society
9:00-2:00 Nite Owl

L & M NEWS
Monday-Friday
8:00 A.M., 5:00, 7:00, 9:00, and 11:00 P.M

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Phi Beta Epsilon Tops Freshman

First place ranking for freshmen in regards to fall term grades belongs this year to Phi Beta Epsilon, whose 4 pledges compiled between them a 3.8 cum.

As a result of the showing of the 4, Stewart Sivertson, Richard Reuthinger, Frederick Hollander and David Ecklein, a new award, the Chairman's Trophy, was given by the IFC to the group. The award was accepted by Reuthinger at a regular meeting of the IFC last Thursday night.

The biggest jump in standings was not made by any of the men's groups on campus, but rather came from the freshmen women who jumped from last place last year with a 2.7 to 3.53 this year, which ranks them eleventh among living groups. Fifteen fraternities and on campus living groups made jumps upward in the standings from their last year's averages, the jumps ranging from one to twenty-four positions.

Following are freshman averages as released Friday by the office of Dean of Students. Also included is the official list of grades for all classes according to living groups. This listing, which is official, shows an overall cum of 3.4, which is almost one-tenth of a point above the figure indicated by the unofficial figures released by The Tech last Friday.

SCHOLASTIC STANDINGS OF FRESHMAN IN LIVING GROUPS
(Based on February 1960 Grades)

Average		No. of Members	Average Rating
3.8	1. Phi Beta Epsilon	4	3.80
3.6	2. Dover Club	10	3.64
	3. MIT Student House	9	3.61
	4. Pi Lambda Phi	13	3.60
	5. Alpha Epsilon Pi	16	3.59
	6. Sigma Alpha Mu	5	3.58
	7. Beta Theta Pi	8	3.57
	8. Delta Tau Delta	6	3.56
	9. Baker House	131	3.556
	10. Senior House	51	3.553
3.5	11. Women's Dorm, 120 Bay State	16	3.53
	12. Phi Delta Theta	14	3.479
	13. Burton House	231	3.474
	14. Chi Phi	15	3.45
3.4	15. East Campus	128	3.44
	16. Phi Sigma Kappa	4	3.425
3.3	17. Sigma Nu	11	3.34
	18. Sigma Chi	10	3.32
	19. Delta Upsilon	9	3.31
	20. Lambda Chi Alpha	15	3.29
	21. Delta Kappa Epsilon	12	3.283
	22. Delta Psi	5	3.28
3.2	23. Phi Kappa Sigma	17	3.235
	24. Alpha Tau Omega	6	3.22
	25. Sigma Phi Epsilon	17	3.2
	26. Non-Resident Student Association	45	3.16
	27. Theta Xi	7	3.15
3.1	28. Phi Kappa Theta	6	3.1
	29. Tau Epsilon Pi	14	3.09
	30. Theta Delta Chi	9	3.07
3.0	31. Sigma Alpha Epsilon	14	2.96

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When a person is able to move into areas where his true interests lie, and when he has many areas to choose from, it will certainly be easier for him to find his life's work.

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Standings; Women Students Move up on List

Average	No. of Members	Ranking Detail
2.8	11	32. Kappa Sigma 2.88
	14	33. Phi Gamma Delta 2.79
	12	34. Theta Chi 2.77
1.6	3	35. Phi Mu Delta 1.6

SCHOLASTIC STANDINGS OF LIVING GROUPS (Based on February 1960 grades)		
Average	No. of Members	Ranking Detail
3.6	32	1. Dover Club 3.64
	17	2. Women's Dorm — 120 Bay State 3.59
	49	3. Pi Lambda Phi 3.57
3.5	35	4. Sigma Chi 3.53
	56	5. Alpha Epsilon Pi 3.516
	33	6. Theta Delta Chi 3.515
	38	7. Sigma Nu 3.510
	22	8. Women's Dorm — Bexley Hall 3.49
	37	9. Delta Tau Delta 3.48
	35	10. Beta Theta Pi 3.46
	414	11. East Campus 3.45
3.4	192	12. Senior House 3.43
	556	13. Burton House 3.419
	366	14. Baker House 3.416
	60	15. Sigma Phi Epsilon 3.413
	24	16. Theta Xi 3.408
	38	17. Alpha Tau Omega 3.400
	33	18. MIT Student House 3.37
	35	19. Kappa Sigma 3.36
3.3	35	20. Sigma Alpha Mu 3.33
	37	21. Phi Beta Epsilon 3.329
	47	22. Phi Kappa Sigma 3.325
	26	23. Delta Psi 3.319
	43	24. Phi Delta Theta 3.311
	33	25. Delta Upsilon 3.252
	265	26. Non-Resident Student Association 3.251
3.2	41	27. Tau Epsilon Phi 3.249
	36	28. Phi Kappa Theta 3.244
	33	29. Phi Sigma Kappa 3.224
	40	30. Chi Phi 3.223

3.1	51	31. Lambda Chi Alpha 3.18
	49	32. Phi Gamma Delta 3.14
	49	33. Sigma Alpha Epsilon 3.13
	41	34. Theta Chi 3.05
3.0	36	35. Delta Kappa Epsilon 3.00
2.9	29	36. Phi Mu Delta 2.91
General Average — Fraternity Groups		1098 3.3
General Average — Non-Fraternity Groups		1865 3.4
All Men's Average		3481 3.4

Frosh Council at Leadership Conference

About 30 first-and-second-term Freshman section leaders and the new Freshman class officers got a candid glimpse of the workings of the Institute, its problems, and the future of their class on Saturday at the annual Leadership Conference sponsored by Comm — the Freshman Coordinating Committee.

Speakers who welcomed the Freshmen to the Endicott House meeting and introduced them to the purposes of the conference included Professor Greeley, Dean Rule, and Dean Holden. Chris Sprague, '60, this year's UAP and editor of VooDoo, explained the functions of the Institute Committee and its subcommittees in the light of Dean Rule's previous explanation of the organization of the Dean's office.

A discussion moderated by Al Shalleck, '60, on the purposes, merits, and problems of the activities on campus followed.

The afternoon session consisted of a forum led by Ira Jaffe, '61 and Jerry Grossman, '61. The group considered such questions as the formation of a Sophomore Council similar in operation to the Freshman arrangement, and measures necessary to develop unity in the class of '63. The class's future schedule, Freshman Dance, Junior Prom, and Senior Week was also mentioned, with the concluding advice that the class leaders present should try to become more well acquainted with one another and with members of the class as a first step toward building class spirit unity.

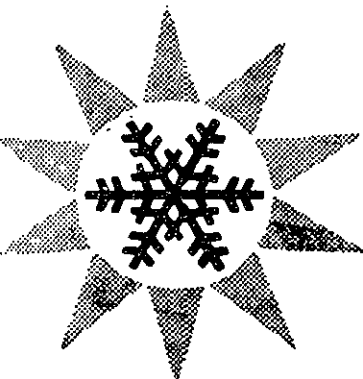
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The Mechanical Engineering Department will hold an Open House for Freshmen, on Tuesday, April 12, at the Faculty Club. There will be numerous exhibits, explained by Professors, illustrating the great breadth and the high level of science employed in modern engineering.

Dinner will follow, interspersed with entertainment in an appropriate mood. Professor Keenan, chairman of the Department, and several other members will talk on important and interesting problems arising in this field.

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MARCH 23



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

EAT, DRINK AND BE MARRIED

On a recent tour of seventy million American colleges, I was struck by two outstanding facts: first, the great number of students who smoke Marlboro, and second, the great number of students who are married.

The first phenomenon—the vast multitude of Marlboro smokers—comes as no surprise for, as everyone knows, the college student is an enormously intelligent organism, and what could be more intelligent than to smoke Marlboro? After all, pleasure is what you smoke for and pleasure is what Marlboro delivers—pleasure in every puff of that good golden tobacco. If you think flavor went out when filters came in—try a Marlboro. Light up and see for yourself... Or, if you like, don't light up. Just take a Marlboro, unlighted, and puff a couple of times. Get that wonderful flavor? You bet you do! Even without lighting you can taste Marlboro's excellent filter blend. Also you can make your package last practically forever.

No, I say, it was not the great number of Marlboro smokers that astounded me, it was the great number of married students. You may find this hard to believe but latest statistics show that at some coeducational colleges the proportion of married undergraduates runs as high as thirty percent! And, what is even more startling, fully one-quarter of these marriages have been blessed with issue!

Here now is a figure to give you pause! Not that we don't all love babies. Of course we do! Babies are pink and fetching rascals, given to winsome noises and droll expressions, and we all like nothing better than to rain kisses on their soft little skulls. But just the same, to the young campus couple who are parents for the first time the baby is likely to be a source of considerable worry. Therefore, let me devote today's column to a few helpful hints on the care of babies.



First of all, we will take up the matter of diet. In the past, babies were raised largely on table scraps. This, however, was outlawed by the Smoot-Hawley Act, and today babies are fed a scientific formula consisting of dextrose, maltose, distilled water, evaporated milk and a twist of lemon peel.

After eating, the baby tends to grow sleepy. A lullaby is very useful to help it fall asleep. In case you don't know any lullabies, make one up. This is not at all difficult. In a lullaby the words are unimportant since the baby doesn't understand them anyhow. The important thing is the sound. All you have to do is string together a bunch of nonsense syllables, taking care that they make an agreeable sound. For example:


*Go to sleep, my little infant,
 Goo-goo moo-moo poo-poo binfant.*

Having fed and serenaded the baby, arrange it in the position for slumber. A baby sleeps best on its stomach so place it that way in its crib. Then to make sure it will not turn itself over during the night lay a soft but fairly heavy object on its back—another baby, for instance.

© 1960 Max Shulman

* * *

And when baby is fast asleep—the little angel!—why don't you relax and give yourself a treat? With Marlboro—or if you like mildness but you don't like filters—with Philip Morris made in long size and regular by the sponsors of this column.



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Clive Is Only MIT Victor As English Squashmen Win 5-

Retiring captain Colin Clive, '61, was the lone MIT victor Friday as six-man squash team composed of three men each from Oxford and Cambridge Universities met the Engineers on the Dupont Courts.

Competing for MIT, in addition Clive, were captain-elect Farid Saad '61, Loufty Elsherbiny, '61, Monte Labouisse, '61, John Priest, '60 and John Beckett, '60.

The English sextet has met the top American squash teams in the East and will continue its tour in Canada Saturday the team made a fine showing against Harvard.

Following the match members of both teams dined at the Faculty Club as guests of the MIT players.

Weightlifters Score Win Over Harvard

MIT's Weightlifting Club muscled its way to victory over Harvard Saturday afternoon in its first official match of the season. Fred Winkmann, '62, led the Beaver strongman with a Hoffman score of 4.52, a number computed by dividing the total weight a competitor lifts by his body weight raised to the two-thirds power.

Also helping Tech subdue Harvard were captain Jeff Speiser, '62, Charles Limage, '61 and Vic Schneider, '61.

Dartmouth Oarsmen Staying At Dupont

For the second straight year the Dartmouth crew is MIT's guest for spring practice. A total of 58 varsity and freshman oarsmen are staying at the Dupont Athletic Center and rowing out of the Harvard crewhouse until next Tuesday.

Dartmouth is unable to practice at its home water in Hanover, N. H. since the river there remains frozen until April. The visiting team eats at the Graduate House training table. Last year the visitors bunked at the Walker Memorial.

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Verderber, Julian Will Represent MIT In National Fencing Meet

Joe Verderber, '60 and Bill Julian, '61, have been named MIT's representatives in the sabre and epee competition for the NCAA fencing championships in Champaign, Illinois, April 1-2. Captain Sherman Karp, '60, will compete in the foil division as announced previously.

Verderber lost just one match in winning the New England sabre championship at the Dupont Athletic Center March 12. In the same meet Julian tied for second in epee but was placed fourth on the basis of touches.

Karp won 12 straight bouts to claim the foil championship and lead the Engineers to their New England crown. During the regular season he compiled an 18-3 record, winning 16 consecutive bouts.

Karp will leave for the University of Illinois campus on Wednesday, March 31, with head coach Silvio Vitale. Verderber will join the pair in Cleveland; Julian will meet the group in Chicago.

It will be the first time in six years that MIT has been represented in the national championships, where approximately 40 schools will enter one man in each weapon. Although team prizes are awarded, the competition is mainly on an individual basis, with All-American honors going to the top six men in each weapon.

SPORTS STAFF

Persons interested in joining The Tech's expanding sports department are urged to contact the sports editor, by mail or by personal appearance on make-up nights, Sundays and Wednesdays, on the second floor of Walker Memorial.

Water Polo Club Upsets RPI 8-7

Paul Hoffman scored six goals Saturday to lead the MIT Water Polo Club to an 8-7 triumph over Rensselaer Polytechnic Institute at Troy, N. Y. It was the first competitive game for the newly formed MIT group, headed by president Bruce Shore.

Hoffman, who played for RPI last year, was Tech's captain and center forward. Also scoring for MIT were Tom Blatt and George Schick.

The Water Polo Club, which is organized mainly for graduate students, will meet St. Francis at Alumni Pool Saturday at 4 P.M. The game is open to the public without charge.

Also in action for MIT Saturday were graduate students Robett Lange (goalie), Bill Travis, Bruce Shore, Polivios Vintiades and Laszlo Benenyessy.

TRACK

All men interested in competing in spring track are urged to report now to Coach Art Farnham at Briggs Field afternoons between 3:30 and 5:30 P.M. Positions are also open for those desiring managerial experience.

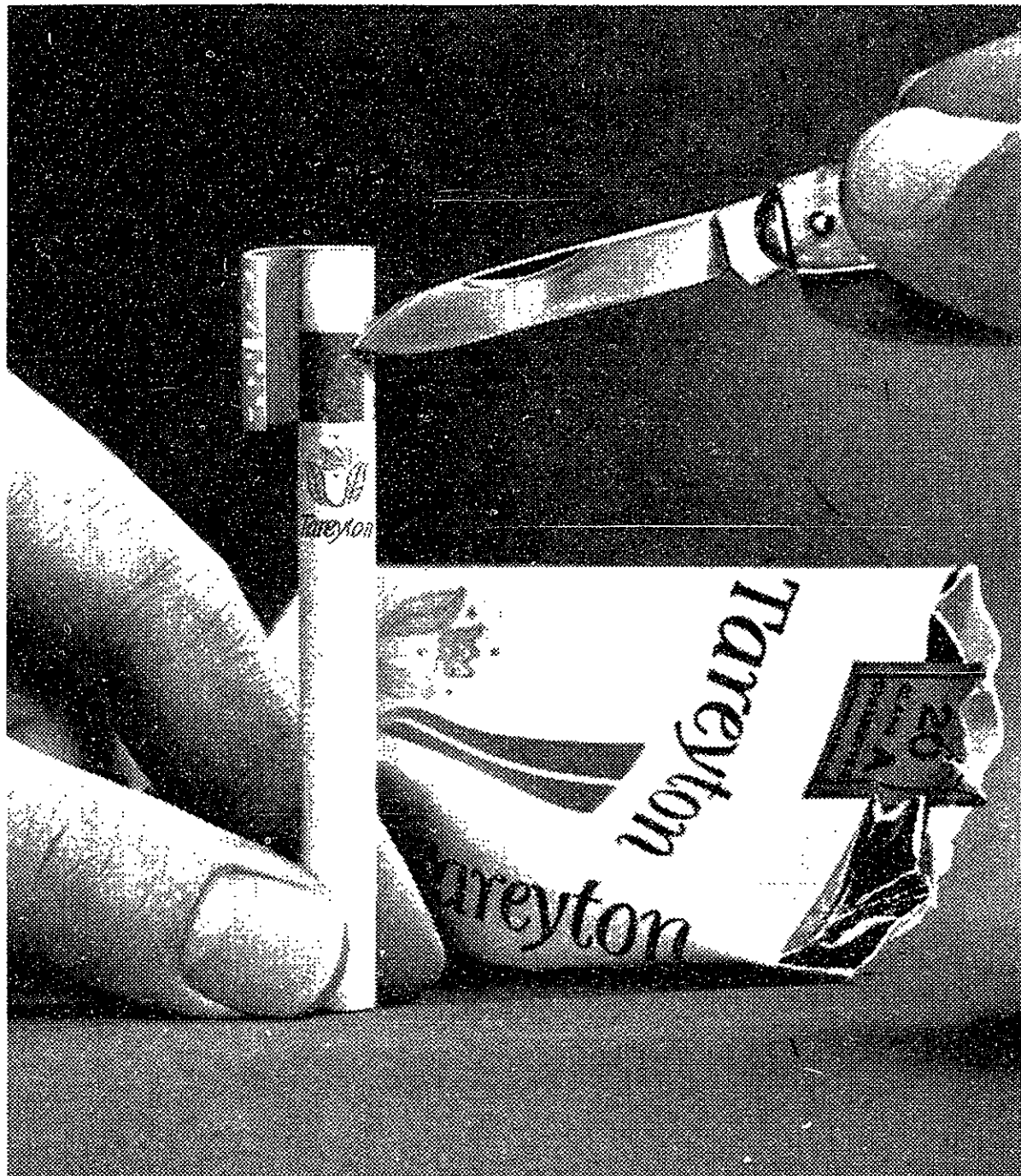
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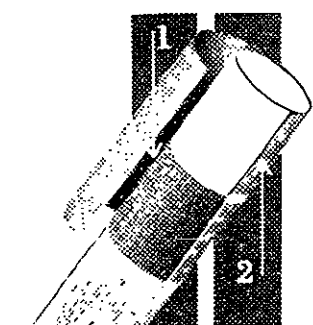
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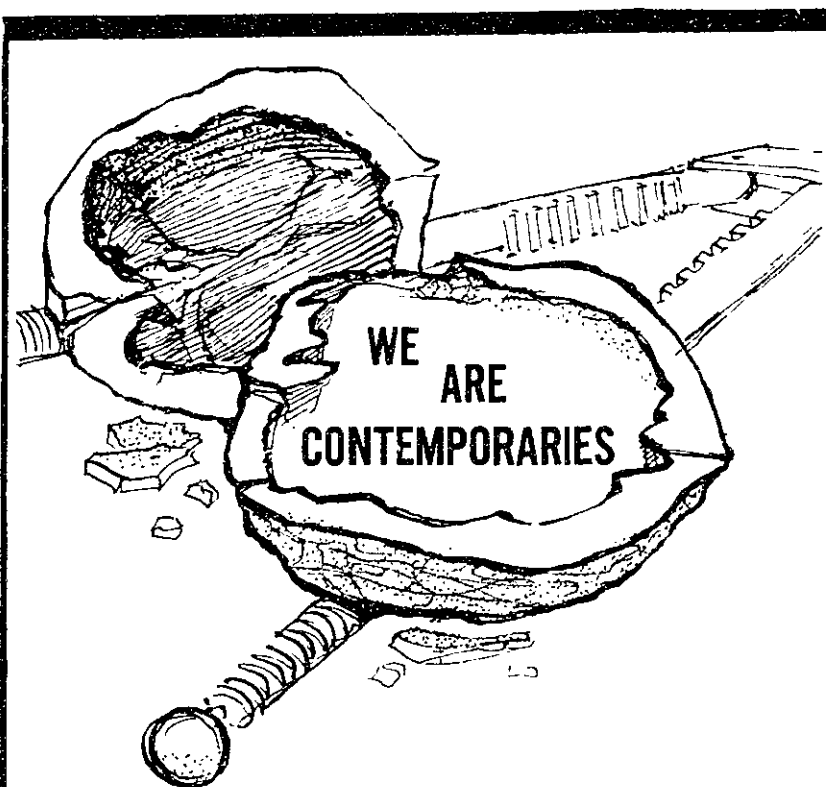
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Engineers who can apply that energy to the development of new equipments and systems for industry and government are invited to contact the EPSCO representative, Mr. Norman S. Powers who will be interviewing seniors and graduate students. Interested applicants should be at Massachusetts Institute of Technology on March 24 to discuss their professional futures with EPSCO.



275 Massachusetts Avenue
Cambridge, Massachusetts

Levinthal Blasts Threshold Theory

(Continued from page 1)

to this report was this: Not only to me but to many others who said this to me spontaneously, the report meant this. As long as you people go ahead and make minor improvements and work very hard on it and diligently, you are doing a fine job, but if you succeed in making a really great piece of progress, then you are doing something immoral. . . ."

The statement concerning morality in the last sentence seems to be a reaction to previous testimony which indicated that the decision against the H-bomb was made for moral reasons.

In the light of this view of Teller's

character Levinthal believes that it is easier to understand why Teller looks upon the statistics on mutations and deaths due to radiation as he does. Whereas Linus Pauling and other advocates of a nuclear test ban look at the figures in terms of absolute numbers, Teller tends to minimize the significance of the figures by looking at them in terms of percentages. For example, Teller does not disagree when Pauling says that about 15,000 babies will be born defective this year because of bomb tests already completed. Teller says instead that this number is small in terms of the total number of defective children born in the world in a given year.

EPIC Letter Continued:

only true if violence was not used. I might mention here that almost all cases of violence in southern demonstrations have been caused by "white supremacists" attacking Negro demonstrators. The president also said, however, (and former President Truman agrees) that constitutionally a storekeeper does have the right to serve whom he wants. This does not mean, however, that those who are refused service do not have the right to boycott or picket that store.

6. a. To the racist group, I can really say very little, because as I have mentioned, your position is inconceivable to me. I would simply suggest that while you are in Tech, where you will not be castigated for your associates, you get to know as many Negroes and foreign students as you can. I am sure that by doing this you will learn to your amazement that they are not animals, and are decent human beings as you claim to be.
- b. To the unconcerned group I say, at the risk of appearing trite, that democracy is something very precious, and that if we do not fight for it in our own country, we will have wasted the countless lives of soldiers who died defending it against dictators who tried to enslave the world.
- c. Finally to the last group of those who really care and are searching for actions they can take, I suggest the following:
 - (1) Keep up with the action in Congress on civil rights and write your Senators and Representatives asking them to support this legislation. As you know a large number of northern Republicans have teamed up with southern Dixiecrats to water down the already meager Administration plan to get more Negroes the right to vote. Some of these men are "on the fence" and might be swayed by a large letter writing campaign.
 - (2) Write to the President and ask why in the six years since the desegregation decision he has refused to say specifically that he favors integration. Ask why, when he was so outspoken and active on the pressing need for labor reform, he has given nothing but vague platitudes and has even failed to speak out for his own administration's civil rights bills.
 - (3) Most important, keep informed on what is going on in this field by reading the newspapers. Try to orient your bull sessions toward these issues, and maybe you can come up with some new ideas. And don't be afraid to speak out! The "Letters to the Editor" section in *The Tech* or in your hometown newspapers are an excellent place to voice your views.

If you finally do decide to take some action, take it with a clear conscience and do not heed the status-quoists who will always attack you. This great country was not built by that kind of person. And maybe the next time you pledge allegiance to a nation "with liberty and justice for all," you will be able to say the words without a shudder.

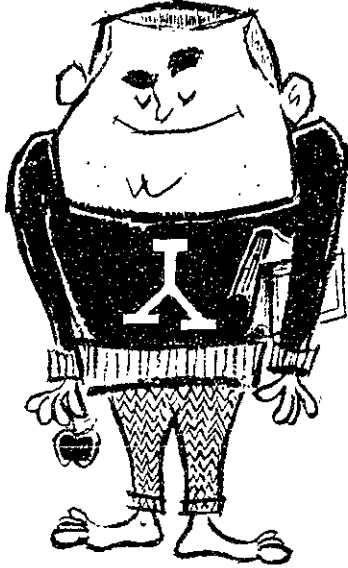
Sincerely,
Martin Klein, '62

The response of the supposedly apathetic MIT student body to the question of EPIC is indeed gratifying. Mr. Klein is from Burton House, Mr. Sutton is from Delta Upsilon, and Mr. Frankenbuis is an apartment-dweller. Whatever one's personal feelings on the question of integration and of EPIC, it is clear that EPIC has had at least one salutary effect, and that is to start MIT thinking about something outside the campus. THE TECH would welcome further relevant comment, if it adds to the above. — Ed.

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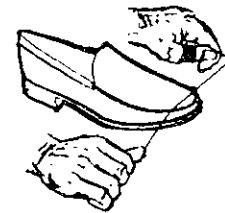
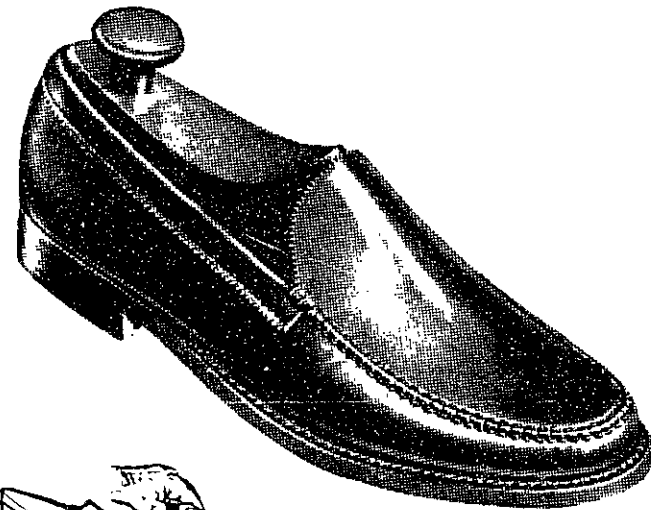
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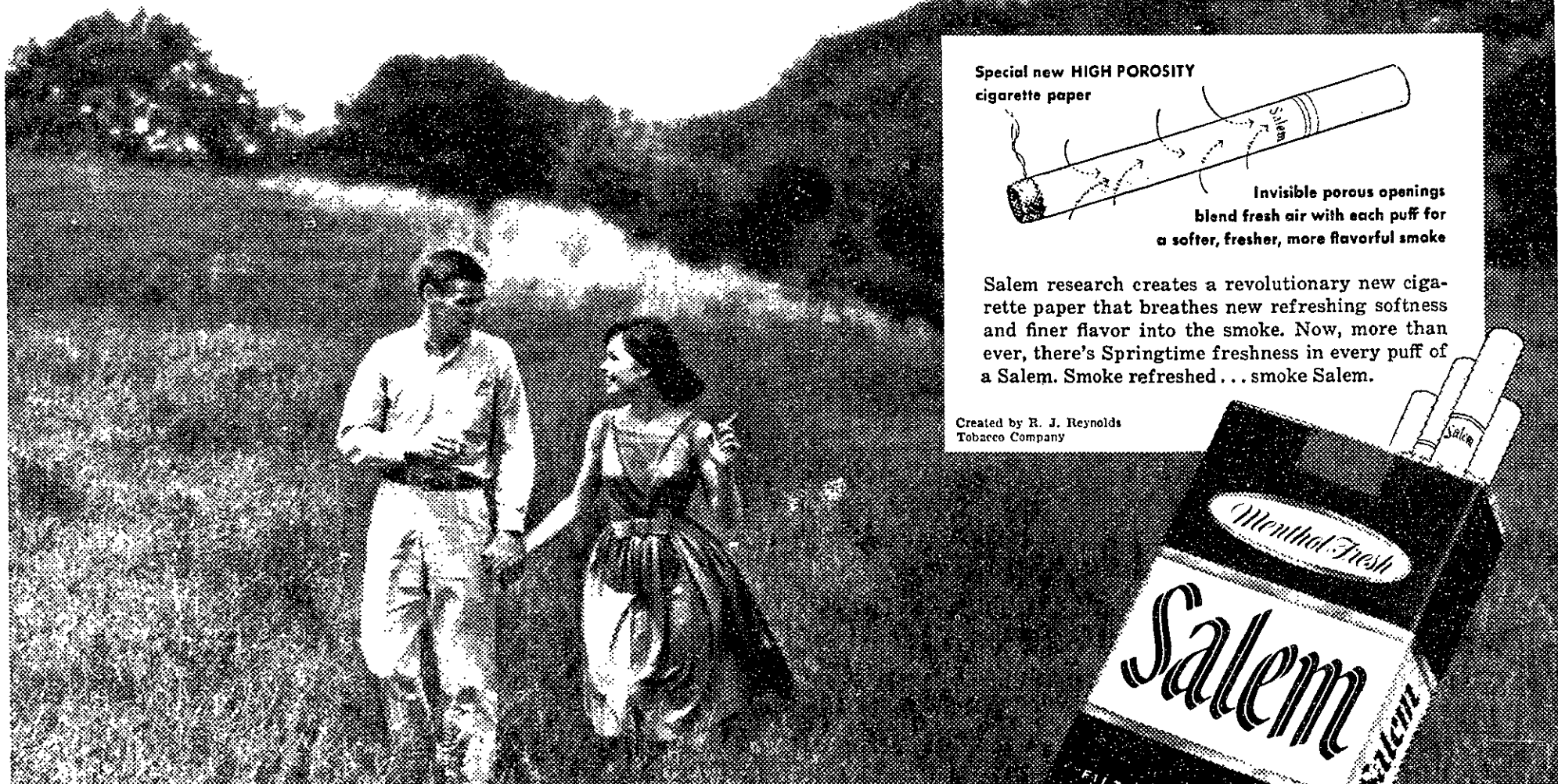


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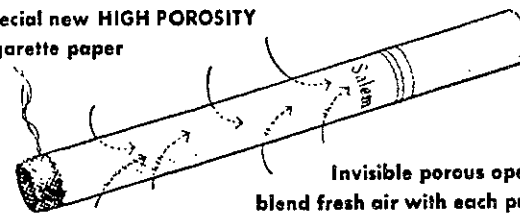
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