

Final Compton Lecture Last Night

Struve On Binary Stars

Dr. Struve delivered the fifth of his series of lectures on modern astronomy Tuesday night. An audience of about 1200 heard the world-renowned astronomer speak on "Binary Stars and Variables."

Dr. Struve emphasized in his talk some of the observable features of multiple star systems, and pointed out the important conclusions gained by these studies.

Considered Binaries in Detail

He first considered in detail the binary system composed of the bright star Sirius and its smaller companion. This system is marked by the fact that the faint star is a white dwarf star, the first known. An extensive study of this star has revealed remarkable properties, including a very high density. Research on this star, and on others similar to it, had led to great advances in stellar evolution theory.

Using slides showing spectrographs and motion curves, Dr. Struve then discussed the large group of multiple systems known as eclipsing variables. These systems, in which a faint star periodically obscures the light of a brighter companion, have been under intensive study for several years, and have been useful in adding to our knowledge of stellar mass and motion. Dr. Struve employed the example of the star Beta Lyrae to point out some remarkable features of this group of stars.

Radio Discussed in Astronomy

Dr. Otto Struve, in his fourth lecture on the universe, stated that radio astronomy has become in the last ten years one of astronomy's greatest instruments. Speaking before a capacity audience Thursday night at Kresge Auditorium, Dr. Struve, Director of the National Radio Astronomy Observatory, gave a historical account of radio astronomy, and discussed some of its present applications.

Modern Astronomy Traced

The eminent astronomer traced the latest phase in modern astronomy from its founding in 1931 by radio engineer Karl Jansky, through its development by Grote Reber, to its present position. Dr. Struve himself deserves credit for recognizing the value of Reber's work and publishing it in astronomical journals.

Dr. Struve showed slides of several large American radio telescopes, and described briefly the work of the National Observatory at Green Bank, West Virginia. This observatory, originally suggested by Dr. Stratton, hopes to erect a 1,000 foot radio telescope soon, and is considering the construction of an 1800 foot instrument.

Radio Telescopes Used

Dr. Struve stated that our galaxy's structure is much better understood since its study with radio telescopes. He showed a map of the galaxy's features, prepared from study of radio signals, and showed that the galaxy's center resembles a great globular star cluster.

Although entire galaxies have been the objects most closely studied by radio astronomy, Dr. Struve expressed hope that individual stars would soon be observed by this method.

Senior Week & JP Committees Elected

The results of last Tuesday's elections for Senior Week Committee and Junior Prom Committee have been announced by the Secretariat.

Elected to Senior Week Committee are: Addison Ball of East Campus; Anthony Caserta of Lambda Chi Alpha; Harold Dodds of Baker House; Sheldon Epstein of Baker House; Linda Greiner of Bexley Hall; Richard Julien of Phi Delta Theta; William Kleinbecker of Delta Kappa Epsilon; Kenneth Myers of East Campus; Edward Neild of Sigma Chi; and Henry Piehler of Phi Gamma Delta.

Elected to Junior Prom Committee were Marilyn "Buz" Arsey, of Bexley; Francis Berlandi, of Phi Kappa Theta; Curtis Hoffman of Lambda Chi Alpha; Raymond Landis of Phi Delta Theta; and Edward Linde of Sigma Alpha Mu.

Yuletide Cheer Planned

The annual Institute Christmas convocation will be held on December 16, from 11 A.M. to 12 P.M., in Kresge Auditorium. The principle speaker will be the Reverend Dr. Sidney Lovett, Chaplain Emeritus of Yale University. Institute classes will be cancelled at the time of the convocation. The service will be open to the entire MIT community.

Federal Loan Funds Rejected by Schools; Loyalty Oath Cited

Harvard, Yale, and fourteen other universities have rejected federal student loan funds made possible by the National Defense Education Act. Their reason for turning back the money is their objection to the requirement of a loyalty-oath affidavit by the recipient of the loan.

The objectionable passage is an oath stating "that (the student) does not believe in, and is not a member of and does not support any organization that believes in or teaches the overthrow of the United States Government by force or violence or by any illegal or unconstitutional methods." President Nathan Pusey of Harvard has called this requirement "misguided" and "discriminatory". President A. W. Griswold of Yale declared that it "is contrary to the classic principles of our college and universities."

MIT has thus far taken no money on the loan fund, since the Institute's own loan funds are adequate to meet all needs. James G. Kelso, Executive Assistant to the President, noted that since the need has never arisen, "no decision has been made on what would happen if the funds were to be accepted. . . We haven't faced the issue, and have seen no occasion to take a stand. . . For this we are grateful."

Admiral Cochrane Dies; Headed Industrial Liaison

Vice Admiral Edward Lull Cochrane died last Saturday, November 14. He was Vice President for Industrial and Governmental Relations, Emeritus, and Special Adviser to the President. He was 67 years old.

Born at Mare Island, California, in 1892, he was "graduated with distinction" from the United States Naval Academy in 1914, and several years later he was assigned to MIT for ad-

vanced work in Naval construction, for which he was awarded his master's degree in 1920. For the next twenty years he held many important naval posts. He was named Chief of the Bureau of Ships, with the rank of Rear Admiral, in 1942, and was in charge of the country's entire wartime naval construction program.

Cochrane was promoted to Vice Admiral in 1945, and in the following year he was appointed Chief of the Navy Material Division of the Office of Assistant Secretary. In 1947 he was named to the President's Advisory Committee on Merchant Marine, and the same year he retired from active duty in the Navy to assume the position of head of MIT's Department of Naval Architecture and Marine Engineering.

Was Dean of Engineering

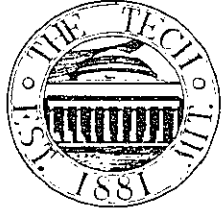
In 1950 he was appointed by President Truman to be chairman of the Federal Maritime Board and Maritime Administrator in the Department of Commerce. In 1952 Admiral Cochrane returned to MIT as Dean of the School of Engineering, and was appointed Vice President for Industrial and Governmental Relations in 1954.

Cochrane held the Taylor Gold Medal, the Distinguished Service Medal, and was an honorary Knight Commander of the Order of the British Empire.



The late Edward Lull Cochrane

The Tech



NEWSPAPER OF THE UNDERGRADUATES OF THE MASSACHUSETTS INSTITUTE OF TECHNOLOGY

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Housemaster Plan Evaluated after Year of Operation

Burton Housemaster Deemed Success by Student, Dean

Expansion of the housemaster system will continue, according to Frederick G. Fassett, Dean of Residence.

He said, "The first year (of the housemaster system) met with such success that we will move on." There is no indication of when this will occur, however.

Both Dean Fassett and Professor Bartlett, Burton Housemaster, are very happy with the progress made under the housemaster system in the past year.

Dean Fassett also expressed approval of the Dormitory Council reorganization as "ideally suited" to the type of dormitory they are trying to create. He stated that when, as in the Housemaster System, problems are settled in the house, the house takes on an individuality. This is one of the main purposes of the Housemaster System.

He also said that the system has "succeeded in very large measure" in meeting the "often expressed desire for greater contact between students and teachers." Professor Bartlett sees many students with problems and the number is increasing.

Dick Greenspan, '60, Burton president feels that the system is very successful in Burton. Professor Bartlett also feels that an important advantage of the Housemaster System has been the ability of the Housemaster to deal directly with many problems arising within the house. The housemaster has basically, however, a counseling and administrative responsibility.

The housemaster is responsible for the house tutors and works with the house committee. He also has funds at his disposal to be used for the better-

(Continued on page 6)

Senior House Discusses Duties of Master

By John Scott, '63

A description of what a housemaster could and should do was formulated Tuesday evening by the Senior House Committee in an open meeting.

Two basic jobs of the housemaster were described in the meeting which was held by Senior House President Al Krigman, for the most part, to a discussion of these jobs.

Counseling Main Function

It was the opinion of most of the members present that the housemaster should, at least through his tutors, know the residents of the house well enough to provide counseling where needed. It was pointed out in the discussion that this counseling should be of both an academic and a social nature. This counseling should be one of the housemaster's main functions.

It was also the general opinion of the house committee that the housemaster should be well enough informed on what is going on in the house to be a source of help to any individual or committee which might need his help or advice. It was strongly pointed out, however, that unless the housemaster felt something was entirely wrong, his role should be a passive one. It was noted in certain fields, such as those handled by the facilities committee, he could be of a great deal of help.

Want "Bull" Sessions

When the meeting turned to the subject of whether or not the housemaster system was wanted, Krigman reminded the committee that no matter what the feeling of the group was, there would be such a system in one form or another. The discussion was then turned to what could be done to make the present system more effective. The opinion of the group seemed to be that the biggest shortcoming of the present system that could be remedied immediately was the tutors did not even know all the people in their areas. One way of alleviating this situation, it was decided, would be a few informal "bull" sessions.

Indian Businessmen Study Management Under Ford Grant

Members of India's top business management will participate in a series of executive development seminars to be conducted in India during the next three years by the School of Industrial Management.

The program, based on a new \$175,000 grant from the Ford Foundation, was announced by Dean Howard W. Johnson. It is an outgrowth of an Indian movement to improve business management and was undertaken by MIT at the invitation of the Ford Foundation, Dean Johnson said.

To Attend Seminars

About 30 Indian business leaders are expected to attend each of the four-week seminars to be held July 4-29, beginning in 1960, in the Palace Hotel, in Srinagar, the capital of Kashmir-Jammu. Each session will be followed by two one-day local conferences, with an expected attendance of about 1,000 for each, in other Indian cities.

Dean Emeritus F. P. Brooks of the School of Industrial Management will head the faculty group for the 1960 seminar, but members will come from other American universities as well as from MIT. Selection of the faculty, which will include the foremost U. S. experts available, has not yet been completed.

Johnson Arranged Meetings

Dean Johnson, who traveled 6,000 miles in India last spring in arranging the seminars, said they would deal with five broad topics. They are:

Management economics, including fiscal, trade and tax problems; corporate finances; human relations and communications; organization; and business policy.

The seminars are a result of "a great deal of ferment in India for management education," Dean Johnson said. The proposal for the courses was made to the Ford Foundation by the All-India Management Association and they have the support of India's National Productivity Council. "Should Produce . . . Understanding"

"We don't pretend that we can provide 'answers,'" Dean Johnson said. "Rather, the joint exploration of important management issues by the executives and the faculty members should produce a clearer understanding of the role and responsibility of businessmen in India just as it would in the United States." He said it is hoped that the seminars can perform a "catalytic function" for India and Indian management in a time of rapid change toward an industrial society.



From left to right: Ira Jaffe, '61, Roy Wainwright, '61, Humberto Gussoni, Ricardo Foulkes, Argentinian visitors, and Bill Strauss, '61. — Photo by Dick Marks, '62

Guts and the Oath

Presidents Pusey of Harvard and Griswold of Yale have got guts. By repudiating the loyalty rider of the National Defense Education Act, and by rejecting the funds which the act provided, they have paid a bitter price to maintain the integrity of the academic world and the freedom of belief and inquiry which the act's appropriations are supposed to help defend. The sad fact, however, is that these contests between security-minded invaders of the private domain and those who would fight them are becoming less a competition of ideas than tests of strength. Pusey and Griswold are important and influential; they can afford to stand for what they think is right. Harvard and Yale will see that students tentatively granted scholarships from rejected funds will be reimbursed. But who would have stood up against the bill, who would have refused the money if they hadn't? How many students would have accepted the rider as a fact of life and gone back to the books?

When a breach of fundamental freedoms, threatening to set a far-reaching precedent, is virtually ignored by the public at large and only opposed by a few who understand what is at stake, it is easy to wonder what the few are getting excited about. Why should freedom of thought endure if for the majority it is a subject of small concern, maybe even irrelevant? It may be argued that we must sacrifice a little freedom in order to save the rest. The real need is for us to sacrifice some of our pre-occupation with less valuable possessions and aspirations and to understand again where the real strength of this country lies and why it is worth preserving. Switzerland has stayed free for centuries, not because it possesses an overwhelming military force but because its determination to stay free has made the cost of conquest too high.

And what can we expect of MIT, now that Harvard and Yale have spoken? Certainly nothing from Institute Committee which was so spineless as to shrink from taking any stand whatsoever on the issue. If MIT students are paying more than lip service to the ideas presented in humanities courses and if the Institute is really concerned with the social responsibilities of science and engineering, it will not ignore this opportunity to show its real stuff. The Institute, although as of yet not a recipient of these government funds, should recognize its responsibility in this basic issue of higher education and state its position on the oath. There has been enough abstention from such commitment.

SWW

letters

Serpent Revisited

TO THE EDITOR:

Angrily in response to the impossible epistle of Edward J. Dudewicz, '63, we must wish to retort that WTBS employs that faculty, lacking in persons who would most need such slimy authoritarianism, namely prudence. Who is to say that WTBS's reasons for such "banning", are completely their own petty prejudices? What, then, is the reason? It is that, in fact, these songs from the *West Side Story* were banned by the publisher not because, actually, they were simply dirty, or obscene, songs, but because it was playing, until recently when it moved onto the road, on Broadway, and as such he decided that if people wanted to hear these songs, they were to either purchase for themselves, or to take themselves to New York to see, this record.

Daniel E., and Peter R., Whitney & Samson,
'6; 0, & 2, respectively.

Vox-WTBS radio vox MIT est.

brush strokes

The past ten years have witnessed Boston's rebirth as a center for brilliant artists. Leonard Baskin, Jack Levine, David Aronson and others are acquiring reputations as artists who are attaining their early promise and are achieving international acclaim from quarters whose acclaim is meaningful.

The local universities have wisely kept up with this creative growth; they may, in fact, be partially responsible for it. I first became aware of the role of the schools at our own wonderful Max Beckmann exhibit some three years ago. This exhibit was not a retrospective in that it did not attempt to show any chronological development of the artist. Subsequently there was an abundance of paintings of Max Beckmann's favorite portrait model, Max Beckmann, yet there were no comments on the "over-abundance" of self portraits. The year before the Beckmann exhibit our library was graced by paintings by Joan Miro, predominately still-lives. Again, the paintings did not suffer because of the repetition.

Currently, the exhibition room of the Hayden Building is showing recent paintings by Gyorgy Kepes, a professor of MIT's School of Architecture. Mr. Kepes understands color. All of the paintings on exhibit show a remarkable balance of color in their composition. The use of textures is effective because judicious, and the work is executed with intelligence.

If the above description seems devoid of a really artistic appraisal it must arise from the fact that the exhibit, as a group of paintings, is basically devoid of art. Mr. Kepes has found a subject and a technique with which to express it. That both subject and technique are employed to the exclusion of all others need not, in itself, be bad. However, when the same viewers who were fascinated by twelve Beckmann self-portraits can be bored after seeing two paintings of Mr. Kepes, a valid criticism of his art is, perhaps, close at hand (perhaps, even in the Science Library). I am not saying that Beckmann is six times better than Mr. Kepes; neither do I intend to compare Mr. Kepes to Leonard Baskin, and I most certainly do not wish to compare him to Beckmann or Miro. Mr. Kepes' theme is catholic enough to allow him room for artistic development — his theme is nature. Viewing a single painting is enlightening because Mr. Kepes' interpretation of the visual world is interesting and colorfully different. As Mr. Kepes fails to reinterpret or to show his subject in different lights and so deepen the perception, he achieves a total effect which, musically, would be similar to that produced by hearing Artur Rubinstein playing a theme of Paganini twenty-five times in succession without a single variation. Viewing a group of his paintings takes away the high initial interest instilled by viewing one.

The one painting that revived my failing interest is entitled "Garden" and it is interesting to note that relative to the entire exhibit it is simply the most different.

— GC

les femmes cherchent

As a public service, men, we're going to clue you as to why you're having trouble getting dates. Simmons, Wellesley, and Radcliffe were contacted and were eager to supply information and elaborate on the *faux pas* which are most annoying when they date. In this exclusive survey, the girls really jumped at the chance to retaliate against what they consider one-sided dating injustice. The opinions of these girls were glowing with sincerity, especially at Simmons where a whole corridor joined in the condemnation of the college dating situation. We've collected some of these criticisms, the ones we can print, that is, and present them here for your enlightenment. These girls don't like boys who:

1. Get drunk (Forget this one if your date is drunk.)
2. Always call and ask girls to fix up their friends.
3. Tell tall stories especially about high school and prep school days.
4. Don't take a gentle hint when a girl has said "no" to him more than once.
5. Try to analyze girls.
6. Ignore their dates by becoming too "gung-ho" fraternity and by talking with other friends.
7. Answer questions in monosyllables.
8. Take a girl to a dance and then don't dance.
9. Call late at night on private phones.
10. Call a girl, leave a message that they called, and then never call back.
11. Start out on a date without having anything planned or knowing where they're going.
12. Begin a telephone conversation with, "Are you busy Saturday night?" and then wait for the girl to answer.
13. Insist that they have time to get back to the girl's dorm when they're already late and then drive like crazy to get there on time.
14. Ask girls to get pinned after three dates.
15. Treat girls as though they didn't exist — men don't have to be a Sir Walter Raleigh, but at least they can open doors for girls, walk on the outside, etc.
16. Go to a mixer and then act as though they were the Aga Khan out shopping — look girls over, write in obvious little black books, etc.

All these criticisms may seem trivial, but apparently girls really appreciate courteous and considerate dates. Since the girls interviewed were loyal Tech daters, quite probably most of these criticisms were directed toward Harvard.

Now, if you're man enough to face another mixer, the nurses have finally gotten around to having open house. Massachusetts Memorial Hospital (at Voss House) and Massachusetts General Hospital (at 20 Charles Street) mixers are scheduled for this Friday evening. Dancing starts at eight (be sure to take along a couple of six-packs). When you find yourself someone compatible, take her to Sig Ep Circus Saturday night.

— LMA

The Tech

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BRATTLE THEATRE
Harvard Square

— PANTALOONS —

5:30 7:30 9:30

UPTOWN THEATRE — BOSTON
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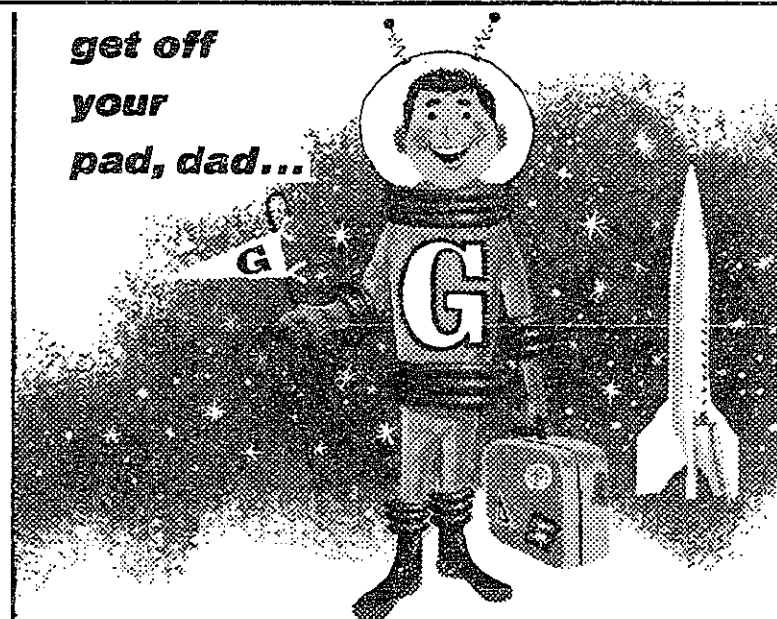
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Sports Car Club Begins Newsletter

The MIT Sports Car Club will be publishing a club newspaper to be named "The Tech". This, although meant as a pun to "The Tech" is derived from an important instrument in the sports car, namely, the tachometer. To be published monthly, the paper will contain news on sports car meets, club activities, and articles on sports cars.

This newspaper is a revival of a paper formerly published by the club. Circulation is free and will be limited to members only.

The next meeting of the club will be on December 2nd, and on December 6th, there will be a Modena, a gymkhana for sports cars.

A Folk & Country Music

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with MERLE

— TRAVIS —

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Blue Grass Band

Saturday November 21 8:30 P.M.
JORDAN HALL
Tickets — \$3 & \$2.20
KE 6-2412

East Campus Votes To Keep Constitution; No Ouster Planned

The East Campus reform movement is dead. The last effort to change the makeup of the House Committee failed last Wednesday night. The motion to amend the Constitution to remove the votes of all non-directly elected members failed as was predicted in The Tech two weeks ago. In a meeting marked by about one half hour of parliamentary maneuvering including a recess to consult Robert's Rules of Order, the last possibility of ousting Terry Welch, '60, as House President was defeated. Passage of the amendment would have been widely regarded as a slap at Welch, since a majority of the members affected are his close associates.

It now appears that there will be no further attempts at changing the EC government this term. It is quite likely, however, that the elections in March will see a contest between present supporters of Welch, and those of Bill Hale, '61, leader of the dissident group.

Music at MIT, From Tom Lehrer to the Messiah

"Messiah" in Original, Uncut Version

The original version of Handel's "Messiah" will be presented by the MIT Choral Society and Symphony Orchestra on December 5 and 6, in Kresge Auditorium. Directed by Klaus Liepmann, the 125-man choral group will sing from the "urtext," that is the text as Handel originally composed it, including choruses seldom heard and omitting widely used orchestrations by Franz and Mozart.

Soloists for the performances will be Joyce MacIntosh, soprano; Ruth Sullivan, alto; Donald Sullivan, tenor; and David Ashton, bass. Mr. Ashton is professor of business administration at Boston University.

The "urtext" of "The Messiah" was compiled by a German musicologist, Arnold Schering, and published only two years ago from parts discovered in a London founding hospital in 1896. The music dates back to the second performance of the oratorio in 1742, and shows orchestration by oboes and bassoons not previously known to have been included in the score.

The Saturday performance will begin at 8:30 P.M., and the Sunday one at 3 P.M. Tickets at \$1.50 and \$2.50 will be available at the MIT Music Office, Room 14N-236, Extension 3210.

Litton is Soloist in Symphony Concert

The MIT Symphony Orchestra, under the direction of John Corley, will present its first concert of the season tomorrow evening at 8:30, in Kresge Auditorium.

The program will include the La Gazza Ladra Overture by Rossini, the Lieutenant Kije' Suite by Prokofieff, and George Gershwin's Concerto in F. Gerry Litton, '60, will be piano soloist with the orchestra.

Admission to the concert is free, and the entire MIT community is cordially invited to attend this outstanding event.

Anna Russell, Cossacks, and Moore

Tickets are now on sale for the 1960 MIT Guest Artist Series, consisting of musical programs by Anna Russell, the Don Cossack Chorus and Dancers, and Gerald Moore.

On February 28, the well-known pianist and accompanist, Gerald Moore, will give a recital-lecture on the art of accompaniment. The London Times called Mr. Moore's similar program at the Edinburgh Festival "as hilariously funny as it was artistically profound."

On April 7 the Don Cossacks will give a program of traditional Russian songs and dances.

On May 13 Anna Russell will present some of the musical lampoons that have led one Boston reviewer to call her the "funniest woman in the world."

Each performance will be held at Kresge Auditorium, MIT, at 8:30 P.M. Priced at \$7.00 for the series, reserved-seat tickets may be obtained by writing to the MIT Choral Society, Kresge Auditorium, Cambridge 39, or by calling UN 4-6900, Extension 2902.

Organ Recital Given In Chapel Sunday

The Sunday afternoon organ recitals in the MIT Chapel this week (November 22) will feature Allan Sly, organist of the First Parish Church, Unitarian, of Milton, Mass. The recital, which will begin at 4 P.M., is open to the public without charge.

The program is as follows:
Veni, Creator Spiritus

Partita, Flor Peeters; Choral setting, Ludwig Lenel; Organ setting, Marcel Dupré; Chorale prelude, J. S. Bach.

Early American Psalmody

Psalm 65 (Ainsworth Psalter, 1612)
Choral setting, Claude le Jeune;
Three variations for organ, Anthoni van Noordt; Choral setting, Claude le Jeune.

Seven Chorale Preludes (1931, revised 1959) — Roland Leich
Auf, auf! die rechte Zeit ist hier
Jesu süss

Mein Herz, gedenk', was Jesus thut

O du Liebe meiner Liebe
Die ganze Welt

Der Tag mit seinem Lichte
Schafft's mit mir, Gott,
nach deinem Willen

Sonata III (1940)
— Paul Hindemith
Moderate — Slow

"Oh, Lord, to whom should I complain . . ."

Very slow
"Awake, my treasure . . ."

Quietly agitated
"I bid her then . . ."
Prelude and Fugue in C Major

— J. S. Bach

RIDERS WANTED: Christmas Vacation to Cincinnati, Ohio, or points on route. Via New Jersey, Pennsylvania Turnpikes. Leave Saturday, December 19, return January 2. Share driving, expenses. Contact Ken Reinhardt, Wood 111, EC, Extension 2876.

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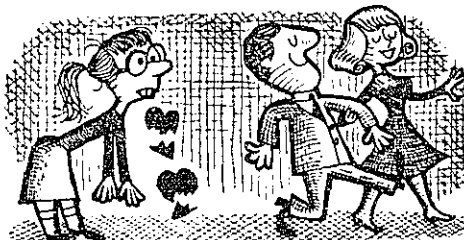
Dear Dr. Frood: I read a great deal so I never have time for girls. Am I missing anything?
Literate

Dear Literate: Only a few marbles.



Dear Dr. Frood: The guy nex to me copys frum my paper. What shoold I do?
Truthfil

Dear Truthfil: Warn him. Quick!



Dear Dr. Frood: When I refuse to go out with unattractive girls, my friends say, "Beauty is only skin-deep." What do you say?
Fussy

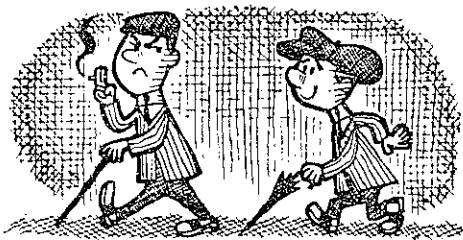
Dear Fussy: That's deep enough.

DR. FROOD'S MORAL OF THE MONTH

Brevity is the soul of wit. Which is why the sight of a girl in a Bikini invariably brings a smile to a man's face.

Dear Dr. Frood: Do you think next year's dresses will cover the knees?
Clothes-Conscious

Dear Clothes-Conscious: They'd better cover more than that.



Dear Dr. Frood: I admire my roommate very much, so I try to be like him. He smokes Luckies. Do you think I should smoke the same cigarette he does?
Awed

Dear Awed: No. Ask him for an unused Lucky.

Dear Dr. Frood: Do you think a boy should kiss a girl on their first date?
Shy

Dear Shy: She would seem to be the logical choice.

DR. FROOD ON QUERIES BEST LEFT UNQUERIED

Years of experience have taught me never to ask a girl these questions:

- Shouldn't we skip the garlic?
- What happened to the fraternity pin?
- Wow! Is that your roommate?
- Do you mind turning out that light?
- You mean that isn't a beanie?
- How come you never wear shorts?
- Why don't you smoke your own Luckies?



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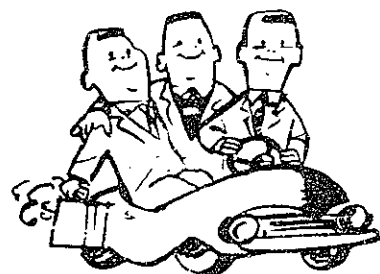
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KOOL ANSWER



Sunday Evening NOVEMBER 22 8 o'clock
David K. Niles Annual Memorial Lecture
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KOOL CROSSWORD

No. 8

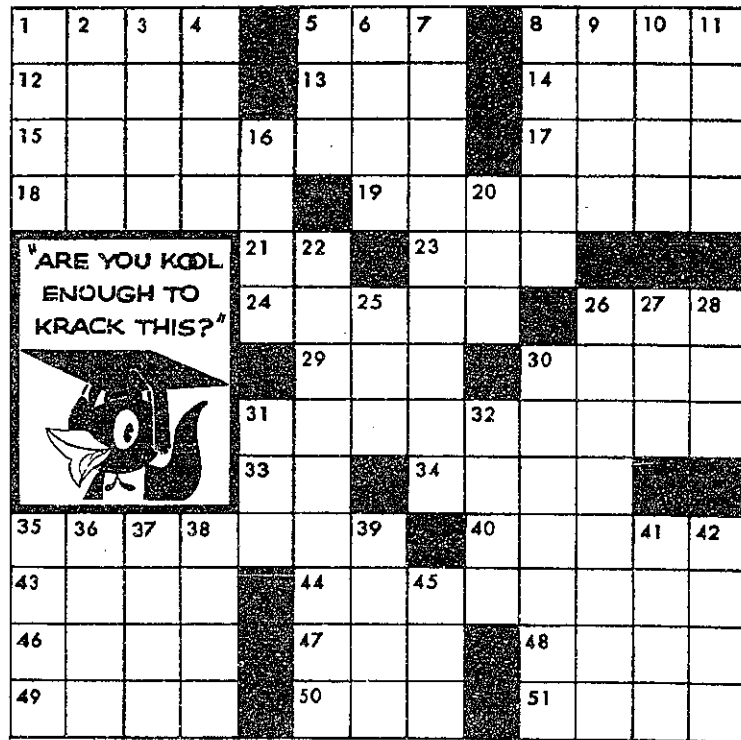
ACROSS

1. Big laugh
5. It's very constricting
8. Berries in Bronx?
12. Repulsive type
13. Fall without the "F"
14. Sundry assortment
15. Make it dilly-y and it's a Swedish...
17. Not a woman author
18. Nut who sounds buggy
19. Odd-balls are
21. Current expression
23. Start hunting
24. His heroine made cigarettes (not Kools!)
26. Doggy frosh
29. Gew's companion
30. Pitts' fore-runner
31. Double-hull boat
33. It's either...
34. Pony-tail temptation
35. Menthol Magic makes Kools taste...
40. Describing bathrooms
43. Feel sleepy? Have a little snoozy
44. Unbalanced upper
46. Subject of Mexican bull session
47. Heel's alter ego
48. Snicker
49. Old card game; go away

50. It's backward in fraternity
51. Watch over

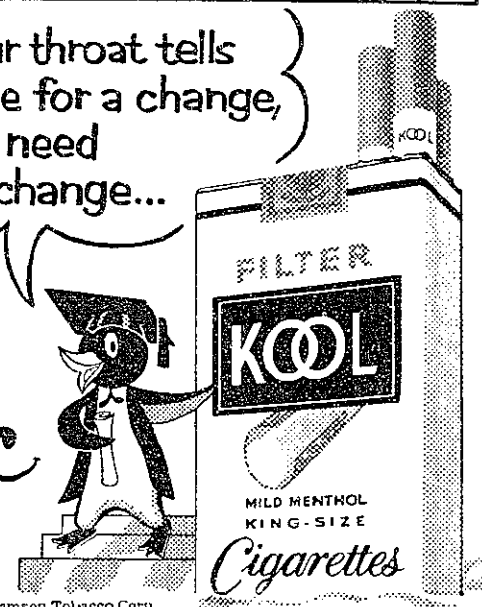
DOWN

1. Atomic or aerosol
2. Exclamatory moaning
3. Small boys' club
4. Festival
5. Sheepish expression
6. Texas' money
7. "Come up, ___ Kools" up to Kools"
8. Lollabrigidian
9. He's in balance
10. Monroe-like kiss feeling
11. Area of defense
16. Tell all
20. Rutgers' routine
22. Kool is America's most refreshing ___
25. "Iz ___ so?"
26. Snooty London street
27. The 50 best
28. Humor's black sheep
30. Gooiest
31. Not a pro
32. Numbers' racket
35. Baby beds
36. Kool, from the wrong end, see
37. Pound of poetry
38. Shaw's... St. Lawrence
39. Cheer from the bottom up
41. Not a bit odd
42. Colored fatally?
45. Type of green



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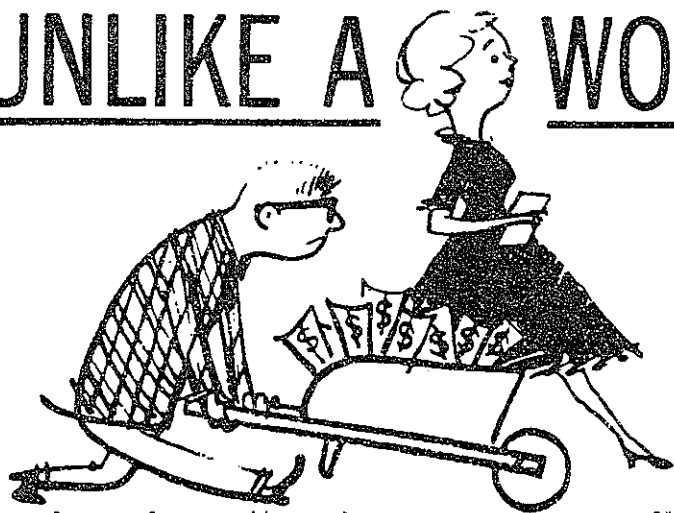
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"Surface" hair tonics merely coat your hair. When they dry off, your hair dries out. But the exclusive Wildroot Cream-Oil formula penetrates your hair. Keeps hair groomed longer... makes hair feel stronger than hair groomed an ordinary way. There's no other hair tonic formula like it.

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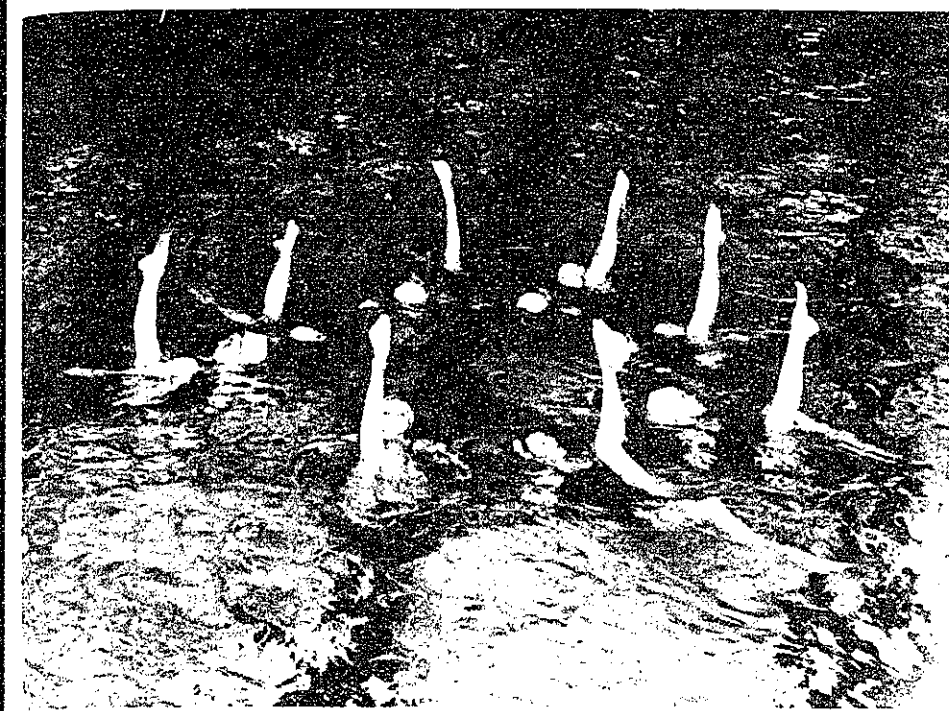


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All-Institute Swimming Competition At Alumni Pool This Saturday Night



The Wellesley water ballet is pictured practicing one of their precision formations that will be used in their Saturday performance at the Alumni Pool.

Tomorrow evening at 8:00 P.M., members of the MIT community will engage in fierce competition to prove to all that their class will rule the high seas. Last year's rulers, the class of '62, will try to withstand the onslaught of the powerful class of '63; while a strong core of graduate students, alumni, and staff along with the juniors and seniors will assure a very colorful meet.

NCAA Diving Champion, Batterman, To Perform

For a different kind of color, the show will also include a demonstration of water polo, where the MIT Seals will battle the Tech Dolphins; two separate and distinct water ballet performances by two separate and distinct aquamaid groups, and diving as done by Charles Batterman, NCAA and AAU Diving champ.

It is still not too late to enter — entry blanks must be in by 6:00 P.M. this evening, at the booth in Building Ten. Trials are at 1:00, and finals at 8:00 P.M. Remember, your class needs YOU. Why not bring a date and sit in the stands. It won't cost anything.

West to Defend

200 Yard Breaststroke Title

Dave Cahlander and Bill Bails, '62, will lead a large group in the diving competition; Tom Ising, '61, and Tim Sloat, '63, will tackle Evan Williams in the 200-yd. Backstroke. Evan was runnerup in the New England Swimming Championships last year, while a senior at Williams College. Burnell West, '60, will defend his title in the 200-yd. Breaststroke, and John Windle, '60, this year's varsity swimming team captain, will attempt to submerge all comers as he defends his title in the 50 and 100 freestyle.

Note to competitors: in order for the trials to be run off as smoothly as possible, please check in at 12:45 or before at the timer's desk near the shallow end of the pool.

Special Meeting Tomorrow

For Prospective Staff Members

- News
- Photo
- Features

The Tech Offices

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12 Noon Saturday

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Record: 5 Wins, 3 Loses, 2 Ties

Soccermen Have Winning Season

In the beginning of the soccer season, Captain Fouad Malouf, '60, foresaw a winning season with MIT fielding a strong squad of booters. Coach Batterman also felt that the team had great potential for the coming season.

In the game with Army, MIT displayed a rugged defense and a tough offense sparked by Manny Penna, '60, who scored the only goal of the fray. Holding Army to the same number of goals led to a 1-1 finish. Dirk Berghaeger, '62, and Cort Ohleinbusch, '62, appeared to be outstanding during this game and continued to be so during the rest of the season.

In the next game, with Trinity, the soccermen suffered a crushing defeat, 5-1 with Penna again doing the scoring.

On The Win Trail

The team then got their second wind and defeated WPI 5-0. A tough defense and alert ball handling highlighted the affair. Outstanding was George Emo, '62, goalie, who made many beautiful saves.

Continuing on the victory trail, the booters stopped Tufts, shutting them out 2-0, in a game hampered by high winds.

Middlebury was next to fall prey to the MIT powerhouse as they capitulated 2-0. Ken Evans, '60, kicked one shot in and Andy Villu, '60, and Dale Rhee, '60, sparked the play throughout the entire game.

The winning streak then came to an end on October 20 as Harvard, capitalizing on Tech injuries and high winds, defeated the Beavers 2-1. Captain Malouf and Ernesto Macaya, '60, were the sidelined players. The squads only goal came in the second half and was kicked in by Manny Penna, the season's leading scorer.

Booters Tie Springfield

The soccermen then traveled to Springfield to meet their old rivals. The game was highlighted by some of the finest playing yet, with Joe Schultzman, '61, fullback, giving his all. The final score was a 1-1 tie.

In the closing days of the season, MIT met and conquered Coast Guard, winning with a 2-1 tally. The meeting with Dartmouth on November 7, proved to be the Maroon-and-Grey's undoing as they suffered their third and final defeat of the season 5-1.

The final game of the season was between MIT and BU. The weak BU team couldn't contain the spirited booters as they triumphed 6-1. Joe Skendarian, '60, replaced Emo as goalie and played quite well. The teams final record was 5-3-2 as compared with last year's 5-4-2. It is worth noting that the Beavers have gone 33 games without being shut out.

IM Tackle Football League Considered

A movement is currently underfoot to investigate the possibility of playing Intramural Tackle Football. This game is currently played at Harvard and has proved quite successful at that school.

The leaders of this movement have presented their views to both the Intramural Council and the Athletic Association. Both groups are currently considering the proposal.

Student opinion on the matter will be quite helpful and will be greatly appreciated. As further details of the plan are revealed they will be made public through The Tech. Anyone desiring to comment may do so by sending a letter to:

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THE TECH
Walker Memorial Building

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HURRY, HURRY, HURRY . . .

SIG EP CIRCUS PARTY

A circus atmosphere will take over Sigma Phi Epsilon fraternity tomorrow night as the house holds its open bid Circus Party. The party, to begin at 8 P.M. at 518 Beacon Street, is open to everyone with their date.

The lower half of the house will be decorated to simulate a circus Big Top. A searchlight on the front lawn will illuminate the event, and a barker will be stationed on the lawn; the barker will be Larry Widigen, '63.

Inside the house, there will be cages with a "mock-up" menagerie and sawdust on the floor. The walls will be draped to look like the inside of a tent.

Music will be provided by a group which has been called the "Historic Jazz Band", and liquid refreshments will be abundantly provided. Although couples are not required to come in special costume, many partygoers will be dressed for the event.

No formal sideshows have been planned since most of the couples are expected to provide their own entertainment. But one of the members of Sig Ep has promised to "hack around" in a gorilla suit, and several MIT Administration members, including Dean Fassett have promised to drop in and add to the festivities.

Housemaster System to Expand, says Dean Fassett

(Continued from page 1)

ment of the house, avoiding the necessity of an Institute appropriation.

The plan of student-faculty contact was begun in 1951 when faculty couples began living in Burton, Baker, and Munroe. Prior to that, faculty couples had been staying in Baker House for a few weeks at a time. In 1954, this plan was extended to the Faculty Houses.

In September of 1958, the Housemaster Plan was begun in Burton with Professor Bartlett and his wife, two assistant professors, and six tutors. This fall, Dr. Goodenough was made Housemaster of Senior House.

**P.M. Balasundaram
To Speak on India**

On Monday, November 23, the Lecture Series Committee will present an illustrated lecture by Dr. Balasundaram, a native of Madras, India, who is at present a visiting fellow at the MIT Center for International Studies, will present the results of his recent studies (1957 and 1959) on India's national rural Community Development Program.

During the nearly ten years that Dr. Balasundaram has spent in the United States his major goal has been to promote understanding between the people of the United States and India.

His lecture will explore the culture of India, the way in which the different peoples of India live, the nature of the rural Community Development Program, and the results of the application of this program — "the silent revolution in rural India".

Dr. Balasundaram has traveled throughout nearly every part of India. A large number of color slides taken by Dr. Balasundaram will be a major feature of the lecture, which will be held in the Kresge Little Theater at 5:05 P.M.

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WTBS

Friday	
7:30-8:45 A.M.	Rise and Shine
5:00 P.M.	Caravan
6:00	Jazz
7:00	Piasta
8:00	Baton Society
8:30	Campus News
8:50	News
9:00-2:00	Nite Owl
Saturday	
5:00 P.M.	Jazz
7:00	Show Music
8:50	News
9:00-2:00	Nite Owl
Sunday	
4:00 P.M.	Sunday Serenade
7:00	Folk Music
8:00	Jazz
8:50	News
9:00-1:00	Classical Music
Monday	
7:30-8:45 A.M.	Rise and Shine
5:00 P.M.	Caravan
6:00	Jazz
7:00	Lenny Silver Show
8:00	Potpourri
8:30	Campus News
8:50	News
9:00-1:00	Classical Music

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engineers

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Engineers at Pratt & Whitney Aircraft today are concerned with the development of all forms of flight propulsion systems—air breathing, rocket, nuclear and other advanced types for propulsion in space. Many of these systems are so entirely new in concept that their design and development, and allied research programs, require technical personnel not previously associated with the development of aircraft engines. Where the company was once primarily interested in graduates with degrees in mechanical and aeronautical engineering, it now also requires men with degrees in electrical, chemical, and nuclear engineering, and in physics, chemistry, and metallurgy.

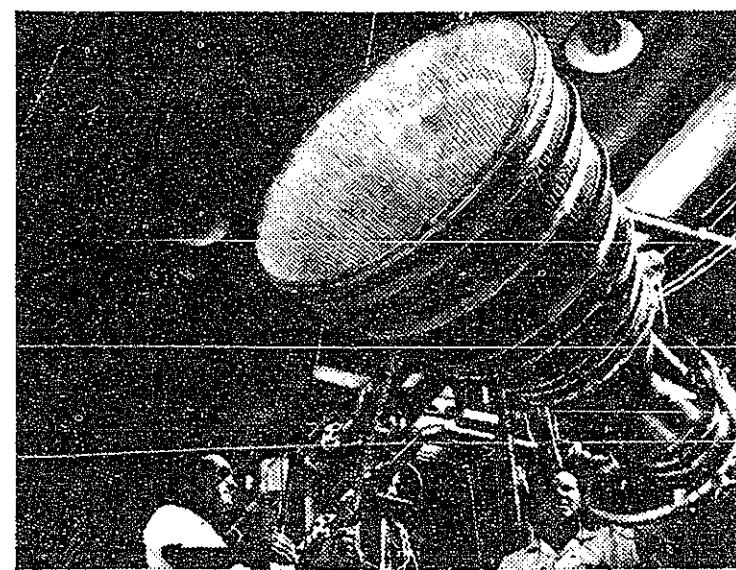
Included in a wide range of engineering activities open to technically trained graduates at all levels are these four basic fields:

ANALYTICAL ENGINEERING Men engaged in this activity are concerned with fundamental investigations in the fields of science or engineering related to the conception of new products. They carry out detailed analyses of advanced flight and space systems and interpret results in terms of practical design applications. They provide basic information which is essential in determining the types of systems that have development potential.

DESIGN ENGINEERING The prime requisite here is an active interest in the application of aerodynamics, thermodynamics, stress analysis, and principles of machine design to the creation of new flight propulsion systems. Men engaged in this activity at P&WA establish the specific performance and structural requirements of the new product and design it as a complete working mechanism.

EXPERIMENTAL ENGINEERING Here men supervise and coordinate fabrication, assembly and laboratory testing of experimental apparatus, system components, and development engines. They devise test rigs and laboratory setups, specify instrumentation and direct execution of the actual test programs. Responsibility in this phase of the development program also includes analysis of test data, reporting of results and recommendations for future effort.

MATERIALS ENGINEERING Men active in this field at P&WA investigate metals, alloys and other materials under various environmental conditions to determine their usefulness as applied to advanced flight propulsion systems. They devise material testing methods and design special test equipment. They are also responsible for the determination of new fabrication techniques and causes of failures or manufacturing difficulties.



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