

Incomm Discusses By-Laws

Levine Declared Ineligible

The UAP race lost one candidate as Richard Levine, a Course VIB Senior, became ineligible for the office. Incomm By-laws have been interpreted to bar graduate students from holding this office. According to the Registrar's Office, Levine is designated as a graduate student next year.

Jerry Staaek, '61, chairman of the elections, notified Levine by letter Wednesday of his ineligibility. Levine's status, as reported by the Registrar, was confirmed by Professor Carlton E. Tucker, Course VI Executive Officer.

Although at present forbidden to hold office any longer than June of this year, Levine is officially able to be elected and to serve these three months or longer if Incomm by-laws are changed.

At the time *The Tech* went to press, Chris Sprague, '60, present UAP, stated he intended to discuss changing Incomm's by-laws to cover the problem proposed by Course VIB, VIA, and IIB students.

Chris Sprague confirmed the fact that Levine is still able to run for UAP, although, as the By-Laws now stand, he would be able to serve for only half his term of office.

Editor's Note — Due to insufficient facts available at the time, the following candidates were omitted from those running for class offices in last week's *The Tech*: Phil Miller, '63, running for President, and Max Snoderly, '62, also running for President.

Stratton Commences Frosh Convocations With Pithy Speech

A freshman convocation at 9:05 A.M. on February 19, in Kresge Auditorium marked the commencement of a large scale freshman orientation program which will continue for more than two months. The purpose of the program will be to advise freshmen on matters concerning their choice of professional course.

President J. A. Stratton spoke at the convocation about the broad range of educational opportunities available at the Institute. His speech was concerned largely with the professional differences existing between the five schools and the work done by people in each of the five broad fields.

FROSH PROGRAM

Freshman sections 7-12, 18-23, will meet Monday, February 9, in Room 270, from 4-5 P.M., to learn of courses III, X, and XIV. All other sections will meet the same day in room 10-250, from 3-4 P.M., to become acquainted with the above courses.

To supplement the information given by President Stratton, many of the individual departments will hold special convocations for freshmen interested in pursuing professional work in that department. The convocations will be given in room 10-250, from three to four for all sections except 12 and 18-23. For these sections, meetings will be held from four to five in room 3-270. Watch *The Tech* for information regarding the dates and departments holding these future meetings.

The Physics and Chemistry departments will not participate in these meetings. The Chemistry department will hold an open house at a later date. Professor Frank, head of the Physics department, seeks to encourage interested students to obtain information by visiting the Physics headquarters and speaking to him.

NRSA Will Hold Elections

The Non-Resident Student Association will hold elections for President, Vice President, Treasurer, Secretary, and four members-at-large, on Tuesday, March 1, at the NRSA House, 8 Memorial Drive.

On March 2, petitions will be available at the NRSA House for Social, Athletic, and House Committee Chairmen. These positions offer a seat and respective vote on the NRSA Executive Committee.

Petitions will be due on Thursday, March 10, and the chairmen will be elected on March 17.

Secretariat will hold a meeting 5:00 Monday, in Litchfield Lounge, for all freshmen interested in Secretariat and aiding with the coming elections.

Answers Circulated To 8,041 Students

In a reaction against 8,041 departmental policy, students mimeographed and distributed problem solutions in last Wednesday's lecture.

Because of poor homework response last term, problems will count as one quiz in averaging the final grade. Only two quizzes will be given instead of the scheduled three. The recitation instructors will give a third equal mark which will be an average of all homework grades.

The problems were solved in detail and space was provided for the individual student to sign his name. At the time *The Tech* went to press, it was not known who was responsible for the problem sets.

Grossman Enters UAP Race 726 Signed Petition Friday

Seven hundred twenty-six students signed Jerry Grossman's petition as the Course XXI Junior beat the Incomm deadline by two-and-a-half hours, entering the UAP race as the fourth candidate. The pre-med student hailed the remarkable signature round-up the "result of wonderful quick cooperation from my friends."

Grossman stated he had been asked to run by "several people whose opinion I deeply respect." He said that "preexisting commitments to Incomm subcommittees and other offices" prevented him entering the race "several months ago."

Compulsory Commons

Citing that the "UAP's responsibility is to bring any student problem to the attention of the administration", Grossman stated that the proposed compulsory commons system is such a problem. Grossman said he hoped to use the present Burton House Committee on commons as a nucleus for student negotiation with the administration. Grossman added: "However, because of the fiscal needs of the Institute's system, we must be aware of the limits of our position and face the problem, not in idealistic terms, but realistically, in order to accomplish all that is possible in improving the system."

Grossman continued, "The Ryer Report includes discussion of the broader needs of student housing — new facilities and extensive remodeling of the existing facilities. Certainly the UAP must be aware of the limits of his position, and I would not promise to have such major facilities in construction by the year's end. The UAP must act as representative of the student body, working with the administration to establish the exact needs and priorities of the facilities on campus."

Centennial Program

"In relation to the general public, the UAP has an added major responsibility next year, that created by the occurrence of MIT's Centennial Year. The UAP must act as the undergraduate representative in the planning and execution of the many events which are scheduled to occur. Through my work as Co-chairman of the Parents

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Tech Show Opens...



Shown above are a few of the star performers in Tech Show '60. "Leave It to Eve" is the title of the musical revue which will feature some eighteen musical numbers.

— Photo By Curtis Wiler, '63

Carnival To Be April 23, Not March 24

The MIT Spring Carnival will be held on April 23, and not on March 24, as was reported in last Friday's *Tech*. According to Jerry Winston, '62, general chairman of the carnival, the deadline for registering for booths will be the end of next week.

Any group that desires information about registration procedure, should

write to APO, Box 5, Baker House.

The profits of the Carnival, to be held in conjunction with Parents' Weekend, will go to charity.

The anticipated attendance is 2200.

One of the highlights of the evening will be the awarding of the Carnival Queen crown.

Gray Elected IFC Prexy; By-Law Amendments Passed

Dover Club Petitioning for Full Rights

Pete Gray, '61, was elected president of IFC at its scheduled February 18 meeting. At the dinner meeting at Purcell's, F. G. Fassett, Dean of Residence, spoke on the problem of scholarship and the fraternities' academic standings.

Elected vice-presidents were Ted Jarman, '61, and John Sununu, '61; treasurer of next year's IFC will be John Rollwagen, '62. The fraternity men named Jay Sobel, '61, chairman of the Purchasing Manager's Council.

Dean Fassett presented to the fraternity representatives the academic mortality rate of the fraternities. He stated that these figures were "more significant than scholastic ratings" as they are a "gauge of chances of survival".

Flunk-out Rate Is 4.7%

Fraternity flunk-out rate at this time last year was 4.4%; this year the figure has risen to 4.7%. These living groups classified as independents, consisting of two-thirds of fraternities, jumped in this statistic from last year's 3.7% to the present 5.8%.

This is in contrast to the number of dropouts in the Class of '63, 20 in all, a figure Dean Fassett called the "lowest ever in my memory". Of these, eight were pledges, six were dormitory residents, and the remaining were commuters.

Dean Fassett continued that twenty of the 28 MIT fraternities lost between one and six men last term. He concluded, "The most important thing a group or an individual can undertake in the balance of this year is to increase the scholastic standing of himself or his group."

Initiation Problems Nonexistent

Of the three major criticisms of fraternities, initiation practices, discriminatory clauses, and scholastic standings, Dean Fassett said that MIT fraternities had demonstrated their responsibility. He said that the latest Initiation Week had proved the non-existence of any initiation problems.

IFC Discusses Academic Survival

The Intra-Fraternity Conference strengthened penalties on Rush Week violations as it amended its by-laws at its last meeting on February 18.

Ken Richardson, '60, chairman of the IFC Committee on Investigations, moved that Rush Week monetary fines be increased to a maximum of \$500.

\$50 Fine Felt Ineffectual

Opinions expressed at the meeting concluded that the former maximum fine of fifty dollars was an ineffectual guard against a house, which stood to gain nearly a thousand dollars in house bills from each new pledge.

Second of the motions was to amend the by-laws to allow publication outside IFC of house offences, particularly Rush Week misdemeanors. The old by-law allowed for publication within the IFC only. Discussion presented the views that any such restriction only limited the penalizing power of the action, and that secrecy had been difficult to enforce.

Meanwhile, Dover Club was admitted into a probationary period as part of its program to become a full-fledged member of the IFC. This probation merely prevents the direct affiliation of the group with a national fraternity, while permitting complete association with IFC activities. Dover Club will be expected to show its competence as a self-supporting group; at the end of one year it will become the local chapter of national fraternity Zeta Beta Tau.

Dover Files for Full Status

Dover Club, in a surprise move, filed a motion to the effect that it would gain status immediately as a full member of the IFC. As this motion is in conflict with the existing by-laws, which stipulate the one-year probationary period, the motion will be voted on by the IFC at its next regular meeting, probably March 17.

A colony, during its probationary period, has most of the privileges of a fraternity which is a full member of IFC, the only chief difference being that during this period the Greek letters of the national fraternity which the colony is petitioning may not be employed. All services of the IFC are available, and members of the colony may hold IFC office.

In its argument, Dover Club pointed up the opinion that

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JERRY GROSSMAN
UAP CANDIDATE

Course I Receives New Computer Lab With IBM 650

The establishment of a Computer Laboratory for Civil Engineering Students was announced today by Dr. John B. Wilbur, head of the Department of Civil and Sanitary Engineering. In cooperation with the IBM Corporation, the department is installing an IBM 650 Electronic Data Processing Machine in the basement of Building One this week. In addition to the 650 Computer, the Laboratory is being equipped with supporting IBM facilities including 407 Accounting Machine, 082 Sorter, 514 Reproducing Punch, and 026 Key Punches and 056 Verifier.

More Computers Ordered

To keep pace with the rapid technological progress in the computer field, when the order was placed for immediate installation of a 650, a second order was entered for one of the newly announced IBM Solid State Computers for delivery at a later date.

At least half of the machine time will be devoted to academic activities and the balance to research activities. One-third of the academic time has been allocated to students taking course work in computer methods in the Civil Engineering Department, one-third to the School of Industrial Management, and the remaining one-third to other academic users. The

(Continued on page 4)

Baker Publishes "Collier's"

Last Tuesday "Collier's", a six-page mimeographed newsletter put out exclusively by Baker House was born. Editor-in-Chief is George Lakoff, '62, founder of the organization, and Associate Editor is Les Lamport, '60. Lakoff plans to publish once a week on Tuesday and distribute copies gratis to all Bakerites and various friends of Baker House.

Baker House house committee is sponsoring the sheet as a substitute for the previously unsuccessful "Baker News Letter". Presently, Lakoff is planning to gather a larger staff to double the size of the paper.

This week "Collier's" contained, among other items, a dissertation on H bomb tests with special comments by Dr. Jerome Wiesner, of the EE Department.

Qualifications

Election time draws near; the contest of broadest interest is clearly the fight for the position of UAP. *The Tech* has printed the platforms of the four candidates. We will follow the discussion of the issues presented therein with interest. So should the rest of the undergraduate body. But let us suggest another facet to the question. The primary criterion for voting for a candidate is not necessarily the issues he chooses to bring up. Rather the qualifications of the man himself might better be investigated. We suggest, for instance, that the question of how a candidate feels on such subjects as open house hours, or hot plates, or some other relatively closed issues, is hardly as important as his ability to handle the office of UAP. Is he familiar with student government and its workings at MIT? Does he know the limitations of the office of UAP? How has the candidate shown in the past the willingness, desire, or ability to serve in other positions than that of UAP? As in every political campaign, all the answers are not to be found in the campaign statements. Background information, such as activities records, provides part of the answer. More of it comes from inquiring of the associates of the candidates in the past as to just what the man is capable of doing.

Granted this is not the easiest way to come to a decision on how to mark your ballot. The easiest way is not always the best way, however. Those wishing to vote intelligently next Tuesday will go deeper than the campaign platforms.

Wise Fools

A confusing item, or one which must be confusing to many faculty members, is the appearance of a set of mimeographed problem answers in the sophomore physics course, several days prior to the date these problems were due. Students at MIT and elsewhere have griped since time immemorial about the number of tests they have to endure. All sorts of objections have been raised to testing as a means of evaluating fairly the quality of a student's work. Now the physics department once again demonstrates its willingness to experiment with new ideas, and base more of the students' grades on work done with comparatively little pressure. And the students' (or one student's) reaction is to put forth a herculean effort to make the experiment ineffective. This is hardly a mature reaction. This is truly resistance to education, of the type one expects to find, not at MIT, but in the Cambridge public high schools. We suspect that the sophomore or sophomores responsible for the mimeographed answers are the same ones who hiss the lecturer from time to time. We feel that they are deserving of little respect as students or as adults. We need hardly point out that those sophomores interested in getting anything out of their physics course will disregard the mimeographed sheets, and work the problems themselves.

cherchez la femme

The second term has started and again that certain variation of a Techman is appearing on weekends. Yes, the mixer man has returned. A natty fellow, the mixer man realizes that first impressions count. Other distinguishing characteristics: a roving eye, pseudo-smile, and a vest pocket black book. Although the local girls' schools are always criticizing his tactics, it is interesting to note that the girls have started their mixer madness again this term just to meet this fellow.

Surprisingly enough, Wellesley is not scheduling a round of mixers as in the fall, but is planning separate dormitory mixers throughout the term. The first of these is this Saturday evening at Tower Court. The sophomores and juniors are sponsoring this one, so freshmen stay away! Dancing begins at eight, but it is wise to arrive early to avoid the eight-thirty Harvard rush. If you meet someone interesting you might suggest coffee at HoJo's or the "Well" after the mixer.

Word has finally reached Simmons that the freshmen have received their fraternity pins. Consequently, there will be mixers at Simmons. This Friday night the Newman Club at Simmons is sponsoring a mixer for all Simmons undergraduates at Alumnae Hall on the Simmons campus. The following Friday, March 4, the Simmons upperclass mixer will dominate the mixer man's attention. Rumor from Simmons has it that many girls are eager to make new contacts, so expect a good turn-out from the girls. As always, remember that Alumnae Hall has a small capacity and fire laws are strictly adhered to, so arrive before eight-thirty. Although invitations are preferred for admission, an MIT registration card usually suffices.

Competing with the Simmons dance on March 4, Garland Junior College is having another open house dance for the fellow who prefers a more sophisticated type of date. These girls really know how to plan a mixer, for the band and refreshments are always excellent. Dancing begins at eight-thirty at 411 Commonwealth Avenue, across from the Somerset.

These girls want to see Tech Show, so if you haven't a date, here's your chance.

— LMA

Ivory tower

Readers of *The Tech* will perhaps recall the sentiments expressed by Carl Swanson, '60, in this column in the January 15 issue of this year. At that time he spoke of the lack of time at MIT for thought, introspection, or anything but hastily prepared assignments. In today's column Mr. Swanson defends the other side of the question.

A Rebuttal

"Time is the most precious ingredient of all in education. The average student has only a few pennies of time to spend on education, and he can't buy everything in the store. It is up to his elders to help spend his time as wisely as possible — to purchase not just a lot of little educational trinkets, but something that will sustain him all his life. Let us never forget the preciousness of the student's time. As long as we remain fully appreciative of that, I believe that we will find ourselves thinking in terms of educational priorities, rather than in terms of omnibus lists, of excellence rather than coverage." So remarks James R. Killian, Jr., in a speech published in the recently printed book, *The Challenge of Science Education*, by Joseph S. Roucek.

One of the major complaints of the MIT student about his education here is that he has so little time. This quotation from a speech given by Dr. Killian does tell us a little why MIT requires as much as it does. Yet it may not satisfy all our questions.

Before exploring this question let's ask why MIT demands and receives the amount of work we the students devote to our education as engineers or scientists. We imagine that MIT considers itself as a leader in the field of education and intends to continue this leadership. It may require this work because it feels that its educational requirements aid the American society. Of course empirically MIT can state that the students have replied to the question of the work load by performance. We do accept this academic pressure and work under it.

However we believe that there is a much more fundamental reason why MIT feels that it can demand that amount of work it does. Stating this reason may at the same time explain why the undergraduates complain about the pressure and dearth of time at MIT. One of the principal differences between the MIT student and the MIT administration is their respective ages. The men determining the policy of MIT are middle aged and experienced in the world. However the undergraduates, particularly the underclassmen, have had little experience in the world. They know little of life other than the life of a high school or prep school, under the shelter of Mom and Dad.

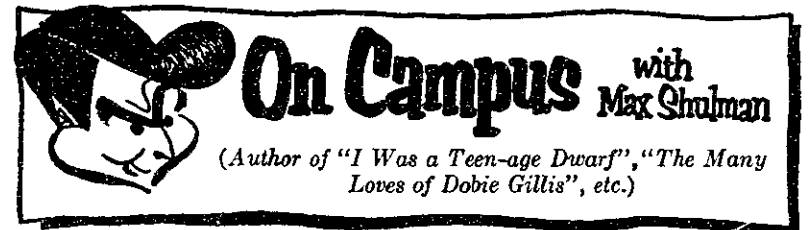
Older men understand the individual's place in the world. The young man, without experience, does not. In his high school or prep school, the MIT student was a king pin engaged, and probably quite successfully, in many activities. At the same time he was able to maintain a high academic standing. However in the adult world few people can excel in several fields. Each person must choose a field or perhaps two fields in which to concentrate. He develops a hierarchy of fields in which he spends his time. This has not been the case with most MIT students. For the first time in his life he must face the fact that he can excel in only a very few fields. No longer can he be the best in everything. What is his reaction? Obviously if he had more time he could devote himself to many activities and do well in all: just like in high school or prep school.

However the fact is that a man must specialize in something. He must choose something at the expense of other facets of his life. Then the question could be asked, when should a person have to choose? Wouldn't it be better if a man were to make a decision of his specialty after he had thought of the many sides of life. In other words, reduce the pressure at MIT and allow him to make the transition between adolescence and manhood with time to contemplate many of the problems of philosophy, of science, of his own relation with the world.

But can the individual understand the adult world in the abstract? Would it not be better if he were in the adult world and treated as an adult? Would he not then more clearly understand the demands and forces upon him? With the pressure upon the MIT student he is forced to make decisions about his own endeavors and the direction of his efforts or lack of effort. This pressure will make him think to reach these decisions. It is this very process that will generate in him the understanding of his relation to the world and the other people in it. The understanding brought about in this way will most likely be a deeper understanding than verbalization in the abstract.

MIT considers its students as men even though they may not have the maturity or experience of men. Yet being considered as men and having to make the decisions that men must make molds the MIT student into a man.

— Carl Swanson, '60



COMMITTEES: AN AGONIZING REAPPRAISAL

To those of you who stay out of your student government because you believe the committee system is just an excuse for inaction, let me cite an example to prove that a committee, properly led and directed, can be a great force for good.

Last week the Student Council met at the Duluth College of Veterinary Medicine and Belles-Lettres to discuss purchasing a new doormat for the students union. It was, I assure you, a desperate problem because Sherwin K. Sigafoos, janitor of the students union, threatened flatly to quit unless a new doormat was installed immediately. "I'm sick and tired of mopping that dirty old floor," said Mr. Sigafoos, sobbing convulsively. (Mr. Sigafoos, once a jolly outgoing sort, has been crying almost steadily since the recent death of his pet wart hog who had been his constant companion for 22 years. Actually, Mr. Sigafoos is much better off without the wart hog, who tasked him viciously at least once a day, but a companionship of 22 years is, I suppose, not lightly relinquished. The college tried to give Mr. Sigafoos a new wart hog—a frisky little fellow with floppy ears and a waggy tail—but Mr. Sigafoos only turned his back and cried the harder.)



But I digress. The Student Council met, discussed the doormat for eight or ten hours, and then referred it to a committee. There were some who scoffed then and said nothing would ever be heard of the doormat again, but they reckoned without Invictus Millstone.

Invictus Millstone, chairman of the doormat committee, was a man of action—*lithic* and *lean* and, naturally, a smoker of Marlboro Cigarettes. Why do I say "naturally"? Because, dear friends, active men and active women don't have time to fuss and fumble and experiment with cigarettes. They need to be sure their cigarettes will never fail them—that the flavor will always be mild and mellow—that the filter will always filter—that the pack will always be soft or flip-top. In short, they need to be sure it's Marlboro—dependable, constant, tried and true Marlboro. Smoke one. You'll see.

Well sir, Invictus Millstone chaired his doormat committee with such vigor and dispatch that, when the Student Council met only one week later, he was able to rise and deliver the following recommendations:

1. That the college build new schools of botany, hydraulic engineering, tropical medicine, Indo-Germanic languages, and millinery.
2. That the college drop football, put a roof on the stadium, and turn it into a low-cost housing project for married students.
3. That the college raise faculty salaries by \$5000 per year across the board.
4. That the college secede from the United States.
5. That the question of a doormat for the students union be referred to a subcommittee.

So let us hear no more defeatist talk about the committee system. It can be made to work!

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You don't need a committee to tell you how good Marlboros are. You just need yourself, a Marlboro, and a match... Or if you like mildness but you don't like filters, try Marlboro's sister cigarette—Philip Morris.

The Tech



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New England Premiere
KENMORE Near Kenmore Sq.

Techretary of the Week in 7-142



Pert Miss Beverly Whitford is The Tech's third Techretary of the Week. Beverly works for Registrar Robert E. Hewes in Room 7-142. Nineteen years old, Beverly has been at MIT since June.

Beverly hails from Melrose, Massachusetts, and is a graduate of Melrose High and Mt. Ida Junior College, where she majored in sociological subjects. She jokingly refers to herself as a "frustrated social worker" and said that she came to MIT via an ad in a newspaper.

Beverly is five feet, one and a half inches tall, has brown hair and blue eyes. Her hobbies range from skating to records, her favorite artists being Johnny Mathis, Sinatra, and Julie London. For those interested, Beverly handles mostly Fresh records in her work at the office.

EE's, PHYSICISTS, MATHEMATICIANS — MS & PhD

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B. MS in Physics or Electronics. To work on systems, circuit analysis and synthesis problems relating to digital communications equipment. Requires strong mathematical preparation with knowledge and interest in digital circuitry.

MOLECULAR ELECTRONICS

A. PhD Physics. To conduct investigative studies on magnetic thin films and semi-conductor high frequency devices. Educational specialization in Solid State physics and interest in microwave resonance effects.

ACOUSTICS & UNDERWATER ACOUSTICS

A. PhD in Physics. To conduct analytical investigations in the field of acoustics involving electromechanical transducer design, dynamics of structures and properties of materials. Interest in conventional resonant transducers and coupling structures.

B. PhD in Electronics, Physics. To conduct fundamental studies in hydro-acoustics, in detection and classification. Interest in attenuation, transducers, magnetic fields.

OPERATIONAL ANALYSIS & RELIABILITY

A. MSEE, Physics or Math. PhD desirable. To work on evaluation of major electronic systems and to develop evaluation techniques. Knowledge of sampling techniques, statistical methods, semi-automatic data reduction and presentation. Educational emphasis on Operations Research.

B. BSEE with Advanced Degree in Math or Statistics. To carry out electronic equipment reliability studies by statistical analysis. Should be able to program IBM 650. Will serve as a consultant to product design engineers on modern computer methods in design analysis.

DIGITAL AREAS

A. MSEE. To conduct studies and perform advanced development work in areas of binary data transmission. Educational emphasis and interest in information theory, network analysis, transient analysis and servo systems.

B. MSEE with heavy math. To work on problems of analog to digital conversion. Background and interest in sampling techniques, differential amplifiers and reference voltage sources.

C. PhD in Physics or EE. To conduct research in Solid State digital techniques and serve in a consultant capacity to product design personnel.

COMMUNICATIONS

A. MSEE, PhD desirable. To conduct advanced studies in radio communications areas. Educational emphasis on Solid State circuitry, modulation and coding techniques.

B. PhD in EE or Mathematics. To conduct basic studies in communications, using all mediums, but with principal emphasis on water as a medium.

SYSTEMS PLANNING

A. MSEE, PhD desired. To examine, analyze and design new systems and products in the area of high density global and inter-global communications systems. Interest and preparation in areas of multiplex, microwave and high-frequency long-distance radio communications.

B. MSEE or MS Physics with PhD desirable. To analyze system requirements and conceive new approaches in areas covering real time, store and forward message switching systems. Educational emphasis in transistors, diodes, magnetic core, logic and millimicro-second pulse techniques.

C. MSEE, Physics or Math. To examine and analyze new system configurations for sophisticated military global and inter-global communications systems. Heavy math or statistics required for calculation of trunking requirements on new systems.

PROPERTIES OF MATERIALS

A. PhD in Physics or Doctorate, Science. To conduct investigative analyses in the utilization of new materials in transducers or speakers. Special emphasis on plastics and plastic coatings would be helpful.

Folklore Productions — M. A. Greenhill presents

ODETTA

at JORDAN HALL 2 PERFORMANCES
30 Gainsborough St., Boston Saturday, March 19, 8:30 P.M.
Tickets: \$3 & \$2.20 Sunday, March 20, 2:30 P.M.

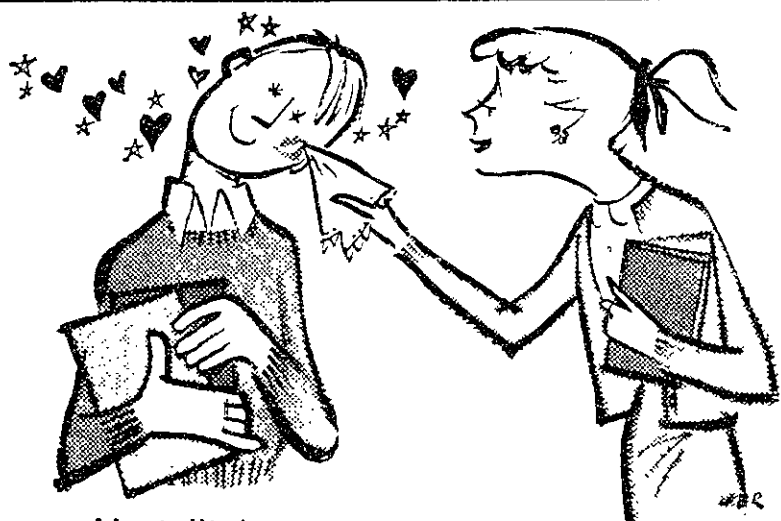
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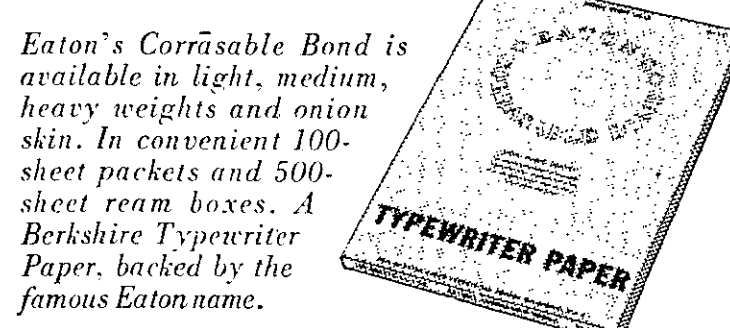
CONCERT
"Folk Songs Around The World"

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PROFESSIONAL INTERVIEWS at MIT
THURSDAY, MARCH 10

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Course I Computer

(Continued from page 1)

facility will be operated on an open-shop basis, users furnishing their own operating personnel or running the machine themselves.

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Electronic Computers have become an integral part of the practice of Civil Engineering during recent years. The Civil Engineering Department at MIT has been playing a leading role in pioneering new approaches to engineering problems through the development of computer methods and data systems to fully exploit modern technology. To meet the operational problems of Civil Engineering practice, approaches must be developed which exploit the advantages and capabilities of small and medium computers at the problem source as well as large scale computers at central locations.

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6:00 Jazz
7:00 Fiesta
8:00 Baton Society
9:00-2:00 Nite Owl

Saturday

5:00 P.M. Jazz
7:00 Show Music
9:00-2:00 Nite Owl

Sunday

4:00 P.M. Sunday Serenade
7:00 Folk Music
8:00 Jazz
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 Bob Nagro Show
9:00-1:00 Classical Music

L & M NEWS Monday-Friday

8:00 A.M., 5:00, 7:00, 9:00, and 11:00 P.M.

Saturday

5:00, 7:00, 9:00, 11:00 P.M., and 1:00 A.M.

Seniors—find out what Kearfott's flexible training program offers You

Check the experiences of four '59 graduates at Kearfott

JAMES KEATING
Villanova University '59



Not at all sure of the area of engineering (development, design, test, manufacturing) which would interest him most, Jim has been most impressed by the way Kearfott Project Engineers STAY WITH A PROJECT from study phase right through to production, assuming full technical and financial responsibility for the quality and salability (price-wise) of the finished hardware. He finds that this Kearfott philosophy enables him to operate across the broad spectrum of engineering.*** Coming from out-of-town, Jim was also pleasantly surprised by the wide choice of living quarters readily available.

STANLEY
WALLERSTEIN
Ohio University '59

The very advanced nature of many Kearfott projects fired this engineer's imagination. He joined the Electronics Systems Lab, where he worked on the development of a tiny counter—part of what is believed to be the most accurate test equipment yet devised for missile guidance systems. After exposure to the diversity of the projects in the Systems Lab, Stan has decided to look no further, but requested permanent assignment here, where work ranges over space navigation, digital computers, guidance systems, solid state physics, industrial automation systems and diverse electronic systems.

LENNART G.
JOHANSSON
Lafayette College '59



Len is pleased with his six months' experience at Kearfott on two widely different counts. First is the combination of both theoretical and practical knowledge he has gained in a field that has fascinated him for a long time—transistor applications. The other is Kearfott's location. Finding midtown New York only 40 minutes away by car, Len, a veteran, is planning to continue his studies for an MS at one of the many colleges in the New York/New Jersey area: Columbia, N.Y.U., Stevens, Newark College of Engineering are all close by. This semester, Len has enrolled for two Kearfott sponsored courses taught at the plant.

GARY WOERNER
Newark College
of Engineering '59

Gary has worked by choice in two Laboratories since he joined Kearfott last June—Astronautics and Electronics. He values the opportunity he had to work in direct contact with senior engineers and scientists who have played a leading role in developing the Kearfott inertial systems and components which have been selected for application in over 80 aircraft and 16 major missile systems. Gary now leans to the choice of a permanent assignment in the Electronics Lab but has decided to work a few months in the advanced Gyrodynamics Division, before coming to a decision.

Opportunities at Kearfott are expanding

Long occupying a unique position in the fields of electronics and electro-mechanical components and precision instrumentation, Kearfott—in recent years—has moved more and more into the development of complete systems. This has led to major staff expansion at all levels, including a sizable number of positions for recent graduates in all 4 major company units:

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The Gyrodynamics Division
The Electro-Mechanical Division
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ON CAMPUS INTERVIEWS MARCH 11, FOR ASSISTANT PROJECT ENGINEERS

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with
each other

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Sure, fringe benefits are fine. Link Aviation offers as good or better than the rest. But how about the day-to-day operation? What kind of assignments will you get? Check these opportunities available *right now* at Link:

- servo-mechanism design work
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- function generator problems using 1, 2 or 3 variables, utilizing both digital and analog techniques
- resolving solutions relating to fire control equations for rockets, missiles and bombs
- navigational equation solutions: simulation of fire control and navigational radar systems
- simulation of complete missile systems
- transistorized circuitry, pulse generation, amplifiers and digital computer components
- optical and visual display systems

Many of the above techniques are used in current Link projects, such as building jet simulators for the Boeing 707, Douglas DC-8, Convair 880, Lockheed Electra, the Navy's A3J jetfighter, or the fire control on the B-58. And there are others that we can't talk about just yet.

There they are . . . some of the current opportunities at Link, both in Binghamton, New York, and in Palo Alto, California. If these or similar positions interest you, contact your Placement Office for an interview in advance. Link Aviation will be on the MIT campus on Wednesday, March 9, or if you prefer, forward a brief resume of your qualifications to:

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MIT

West Sets Breaststroke Record, Swimmers Divide Two Contests

Burnell West, '60, clipped five and one-tenth seconds off the varsity 200-yard breaststroke record Saturday as the Beaver tankers scored a 58-28 victory over Adelphi College at Alumni Pool. The Engineers, however, dropped a 50-36 decision to Springfield Tuesday.

West's performance also took one and six-tenths seconds off the existing pool mark and tied the New England Intercollegiate record of 2:29.1.

Engeler Wins Two
Jed Engeler, '62, set the pace for MIT, taking both the 220 and 440-yard freestyle events as he lowered his own mark in the 220 by five seconds and eleven in the 440.

Tom Ising, '61, West, Tony Silvestri, '61, and Bob Heinmiller, '62, teamed to win the medley relay while Dave Stein, '62, Robin Lytle, '62, Ising and captain John Windle, '60, took the freestyle relay.

Tech Sweeps Freestyle
Windle also copped the 100-yard freestyle honors with Heinmiller second. Ising led the field in the backstroke.

The Techmen managed to salvage victories in only the two relays in the Springfield loss. Ising, West, Silvestri and Windle were clocked in a 4:05.6 to lower the varsity record by two seconds. Springfield was just one second behind.

Freshmen Split Pair
The freshman tankers, who handily defeated Brookline High Saturday bowed 62-24 to Cranston High Wednesday.

On Deck

Friday, February 26
Rifle with Northeastern 6:30 P.M.
Varsity basketball at Case
Fencing at Columbia
Varsity squash at Yale
Freshman hockey at Bowdoin
Saturday, February 27
Varsity swimming with Massachusetts 3:30 P.M.
Track with N.H. (varsity and freshmen) 1:00 P.M.
Rifle with N.H. 10:00 A.M.
Varsity basketball at Chicago
Fencing at Stephens
Varsity squash at Adelphi
Wrestling at Springfield (varsity and freshmen)

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A Campus-to-Career Case History

"Telephone company engineering has it for real interest and variety"

Ronald F. Radke got his B.S. degree in Mechanical Engineering from Oregon State College in June, 1956. In July, he went to work for The Pacific Telephone and Telegraph Company in Portland.

"I wanted variety in my engineering career," says Ron, "and this looked like the place to find it."

It was. Ron has handled a great variety of interesting, productive assignments.

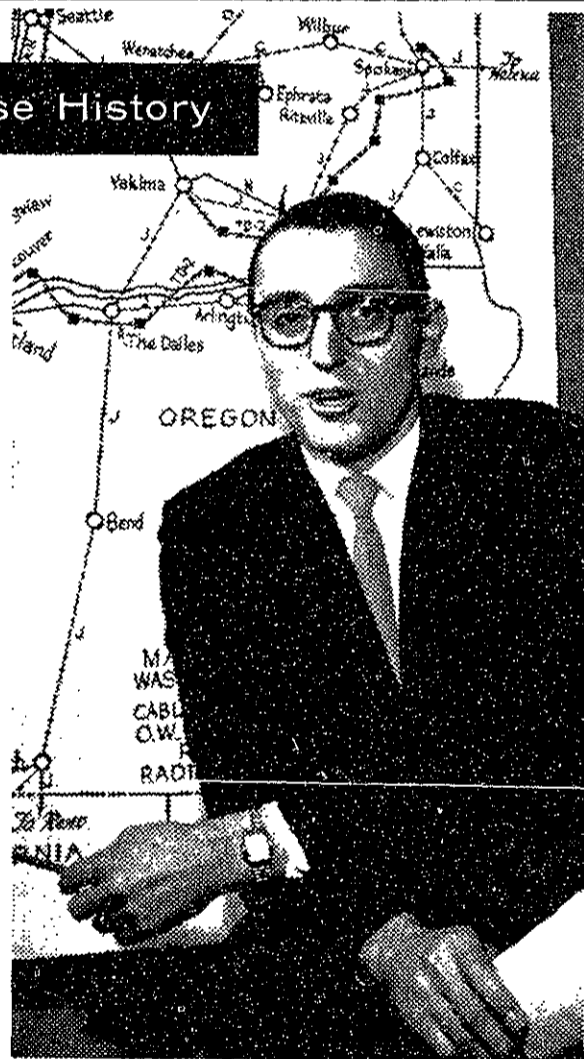
He worked on new-building construction projects—sometimes doing designing himself, sometimes working with outside architects. He programmed additions to central office buildings. Then, as a staff assistant and chief frameman in the Plant Department, he supervised eight people responsible for maintaining switching equipment. In this capacity he visited and became familiar with most of the 60 telephone buildings in the state.

Since April, 1958, Ron has worked on SAGE defense systems, and has made special studies of carrier and cable routes for long distance telephone circuits. Recently, he finished special training in IBM equipment and methods—and is currently introducing new, mechanized procedures to many company engineering operations.

"There are always new challenges and opportunities," says Ron. "For real interest and variety, telephone company engineering has it!"

* * *

There may be a bright future for you, too, in the Bell Telephone Companies. Talk with the Bell interviewer when he visits your campus—and read the Bell Telephone booklet filed in your Placement Office.



Ron Radke is shown above in front of an Oregon toll-route map. Below, he is discussing mechanized work procedures with an Equipment Costs Engineer.



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Jacob Ruppert, New York City

Icemen Drop Last Three Games; Finish Season With 3-8 Record

The varsity hockey team closed out their season Wednesday evening with a 9-0 losing effort against Tufts at the Briggs Field Rink. Prior to that game, the Beaver pucksters dropped a pair of decisions on home ice to the Alumni and the University of Connecticut over the holiday weekend. The Alumni won on Saturday afternoon, 7-2, while UConn gained a 10-2 margin Monday evening.

The Alumni, led by Teddy Madden and George Peckingham, '59, rolled up a 4-0 lead by the middle of the second period, and from there, the contest was fairly even. The varsity goals were netted by George Lermer, '60 and Steve Levy, '62.

The first period of the UConn encounter was scoreless, but the Huskies beat Beaver netminder Tim O'Brien, '62, in the first minute of the second and then tallied six more goals before the bell. John Rupert, '62 and Lermer were the scorers for the home sextet.

Tufts distributed their scoring more evenly, whipping in four, three, and two tallies during the three stanzas. The Jumbos were in control of the puck almost all the time, and only the brilliant play of goalie John Costello, '62, held down the score.

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Our announcement to appear in this paper March 4 and 8 may well affect your future professional career.

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Season Summary
The hockey team's record of three wins and eight losses was their best in the past four years. WPI was downed twice and Wesleyan provided the other victory.

The Techmen were extremely weak at defense, and this hurt their offensive thrusts as well as allowing enemy scores. In contrast, the team was fortunate to have two goalies in O'Brien and Costello, both of whom will return next year.

Although the line of Levy, Rupert, and Erik Salbu, '61, will be back, the pucksters will lose three year veterans Lermer, Sid Altman, '60, and Captain George Kirk, '60, to graduation.

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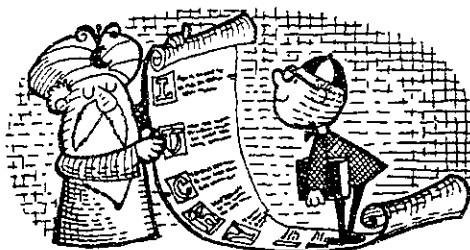
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SUBLIMINAL? FROOD PLEADS NOT GUILTY

Dear Dr. Frood: Is there any old maxim that proves it pays for a young man to go to college?
A. Youngman



Dear Youngman: "Let us collect knowledge young. Soon thou reapst intelligence kings envy." (See previous question).

Dear Sturgis: You could still be black-balled by the Book-of-the-Month Club.

Frood, Old Man—Seriously, friend, your brand of wit doesn't sit with a sophisticated student body. Try to sharpen it a bit, old sock. Make it chic, what? Skoal.
Dink



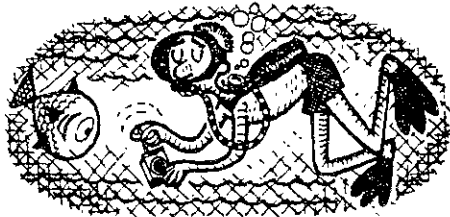
Dear Dink: Makes good sense. Friend Dink. Will give it a go. Now, old bean, as for that part of your letter you asked me not to print. Don't be afraid of girls. Sure you stammer and choke and blush. But just walk right up and announce, "Hi, I'm Dink, and I think you're swell." Skoal.

Dear Dr. Frood: I've been kicked out of college, rejected by the Army, divorced by my wife, disinherited by my father, and fired from my job. What is there left for me?
Sturgis

Dear Dr. Frood: Presumably college is a time of intellectual ferment . . . a period of curiosity and discontent preceding a man's plunge into commercialism and the material life. Why must this inquiry after lofty truths suddenly give way to crass financial motives?
Ibid

Dear Ibid: It's the children. All they seem to care about is food, food, food.

Dear Dr. Frood: I am a skin diver. Is it possible to enjoy a Lucky under water?
Jules



Dear Jules: Certainly. You may have a little trouble lighting the match, however.

Dear Dr. Frood: Every now and then you sneak a plug for Luckies into your answers. Is this subliminal advertising?
Psych Major

Dear Psych: No, sir. Subliminal advertising is much less obvious. For example. Notice what the first letters of all the words in the next answer spell.

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Bow To Bates

Varsity Thinlies Jar Brandies 67½-40½

The track picture brightened considerably for both varsity and freshman squads last week as each gained their first dual meet victory in last week's competition. Wednesday night the varsity trounced Brandeis at Rockwell Cage 67½-40½; Saturday the frosh topped the Bates College junior varsity at Lewiston, Maine 59-49, although the varsity lost 90½-26½.

Five In Double Figures

Five Techmen hit double figures in the Brandeis meet. Captain Bill Nicholson, '60, started the rout with a first place toss of 47 feet 8 inches in the 35-pound weight throw.

Varsity Cagers In Midwestern Swing

The varsity basketball team, which leaves today for a two-game tour of the Midwest, dropped its second game of the season to Trinity Saturday night. The count was 72-39 at Rockwell Cage.

The game was deadlocked for much of the first half, but with seven minutes to play Trinity found the range and rang up a 28-20 margin. Thirteen straight points in the second half moved the visitors far in front.

High man for the losers was Phil Robinson, '61, with nine points. Tom Burns, '62, and Al Gaston, '61, each collected eight.

Tonight the Beavers will meet Case Institute in Cleveland. Saturday they will move on to Chicago to face the University of Chicago. Both teams have posted impressive records this year.

How They Did

- Varsity Fencing**
MIT 15, Buffalo 12
- Varsity Basketball**
Trinity 72, MIT 39
- Varsity Track**
Bates 90½, MIT 26½
MIT 67½, Brandeis 40½
- Varsity Swimming**
MIT 58, Adelphi 28
Springfield 50, MIT 36
- Varsity Squash**
MIT 9, Connecticut 0
- Varsity Hockey**
Alumni 7, MIT 2
Connecticut 10, MIT 2
Tufts 9, MIT 0
- Pistol**
Coast Guard 1364, MIT 1300
- Varsity Wrestling**
MIT 12, Dartmouth 12

JV Victorious

Bob Williamson, '60, gained a surprise second place in his first attempt at the event to give the Beavers a lead which they never relinquished. Nicholson also took the shotput for his ten point total, while Williamson won both the 50-yard dash and the low hurdles to gain 13 points, high for the meet.

Don Morrison, '61, recorded 11 tallies with a first in the broad jump and seconds in the 50 and pole vault, while Joe Davis, '61, did the same with win in the high hurdles and seconds in the lows and the high jump. George Withbroe, '61, began with a victory in the 600-yard run in 1:20.8 and then came back to cop the 1000-yard run in his first try at the latter distance.

The remaining scorers were Steve Banks, '62, mile and 1000; Herb Wegener, '61, mile; Joe Crowley, high jump and high hurdles; Jim Gross, '61, broad jump; Nate Liskov, '60, pole vault; Herb Grieves, '61 and Paul Robertson, '61, two-mile.

Williamson Sets Pace

Bob Williamson was the top performer in the Bates contest, pacing the Beavers with nine tallies, and setting a Bates Cage record of :05.5 in the 45-yard low hurdles.

Muili Salami led the yearlings over the Bates JV with a double win in the broad jump and 50-yard dash. Tom Goddard, Harry Demetriou, Glen Books, Al Ramo, Bill Graham, and Stu Kurtz were the other Tech victors.

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Coast Guard Stops Pistolmen In Finale

The varsity pistol team fired its high score of the season Saturday but bowed to the Coast Guard Academy, 1364-1300, at New London, Conn. It was the final match of the year for the Beaver pistolmen, who have a 2-5 record. Vincent Zappala, '63, was the high man for MIT.

The meet was also the last for coach Capt. Robert Strickland, USAF, who is transferring to the University of Michigan next year. Strickland had also coached the squad last season.

IBM WILL INTERVIEW MAR. 1

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Tech Show Tonight!



Tech Show opened last night to appreciative crowds in Kresge Auditorium. Performances will be tonight and tomorrow night and next weekend.

By-Law Change Requested

(Continued from page 1)

the period as a colony and the probationary period were of such a length so as to exclude any founders of the colony from actual membership in the national fraternity. In this respect, Dover stated that only 2 such men remain, and that they will no longer be undergraduates after June, 1960.

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Grossman Presents UAP Platform

(Continued from page 1)

Weekend Committee, I am acquainted with the specific problems arising from large numbers of visitors at the Institute and MIT's associated organizational policies.

Certainly the second major job of the UAP is to act as the head of the Institute Committee. He acts not only as administrative leader but also as a catalyst bringing in outside ideas and those ideas of student activities not directly represented. This is a very precarious position, for the autonomy of each committee with respect to its defined duties is most important. In any student government where apathy is a threat, the leader must serve as a dynamic source of encouragement to all facets of student activities.

Open House

Last year the Open House was planned by an undergraduate committee working in conjunction with the administration. This year, as part of Centennial Year there probably will be an Open House of larger proportions than usual. Again the students will play a major role in its planning and execution. Therefore provision for it must be made.

X-Factor

The UAP along with the Chairman

of Finance Board has the responsibility of the finances of the undergraduate body, which include the budgets of most of the major activities. As a member of Finance Board this year, and as the treasurer of the Combined Musical Clubs, I am well acquainted with the financial workings of Incomm. This term the Finance Board has been figuring a new "X-Factor" which determines the amount of money the Institute allots to the undergraduate body annually. However, it is the job of the next UAP and Finance Board Chairman to negotiate the factor with the administration. Having worked on it this term, I feel I will be able to represent the best interests of the students.

Platform Summarized

Thus, in essence, my platform is first, one of representation; namely that of the undergraduate body to both the administration and the public; second, of action as a leader and catalyst in maintaining active execution of the duties of Incomm and its subcommittees and the realistic evaluation and solution to the problems which confront the undergraduate student body."

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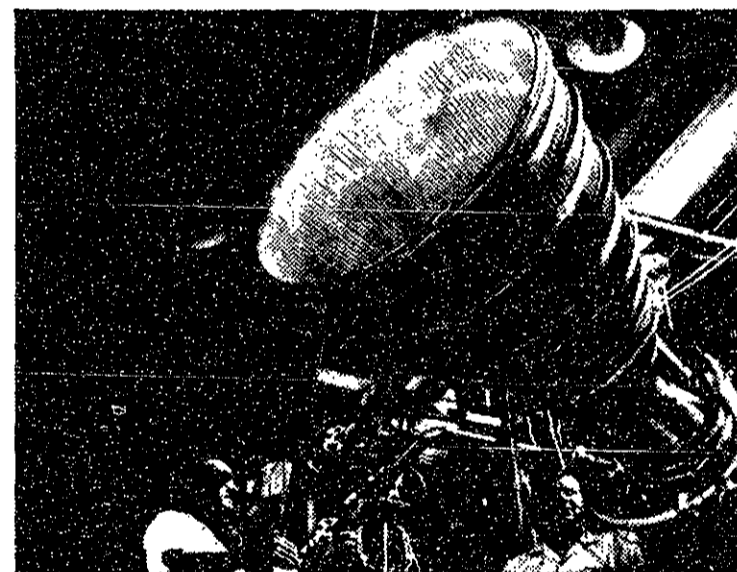
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DESIGN ENGINEERING The prime requisite here is an active interest in the application of aerodynamics, thermodynamics, stress analysis, and principles of machine design to the creation of new flight propulsion systems. Men engaged in this activity at 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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