

Institute Reveals Program Given Next Summer; Several Courses Required

2nd Term Frosh, Soph Schedules Are Mandatory

Full details for the 1947 Summer Term, during which both 14-week and short curricula will be offered depending on the course and year were announced earlier this week by the Office of the Registrar.

No incoming, or first-term freshman term program will be offered next summer. The second freshman term will be required of the class entering this February as second-term, first-year subjects will not be offered again until the spring term of 1948. Second-term freshmen in Course I will postpone the required Summer Camp (normally following the first year) until the summer of 1948. Course V students will take 5-10 as part of their second year instead of during the summer.

In addition to the freshman program, some summer courses for upper class men will be required. Those will include 5-10 for Course V from June 16 to July 25 (tuition \$95.00), and summer camp for civil engineers from August 21 to September 19 (tuition \$30.00, Room and Board \$60.00)

Second-Term Sophomores

For the Sophomores there will be no 2-1 program offered. However, those who are now second-term freshmen will be required to attend, as the 2-2 program will not be offered again until the spring of 1948. A few changes in program will be necessitated. Metallurgists will not be required to take machine tool laboratory, 2-851. Course I and Course XVII students will postpone their summer camps (following first and second year respectively) until the summer of 1948. Biology and Food technology majors will take 5-41 and 5-428 (required after their second year) as part of the third-term curriculum, with adjustments made.

Students in some courses who will have completed the second year in June must go to short summer school. These include Course I summer camp (normally after the first year from August 21, to September 19 (Tuition \$30.00, Room and Board \$65.00). For Juniors in Food Technology and Biology 5-41 and 5-428 will be required for students not taking the full 3-1 program.

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Wilson To Head Atom Commission

The appointment of Carroll L. Wilson, '28, vice-president and director of the National Research Corporation, as general manager of the United States Atomic Energy Commission was announced on Tuesday, December 31, by Charles G. Ross, press secretary of the White House. Wilson's \$15,000 a year post, still subject to Senate confirmation, will be, according to Ross equal in importance to a membership on the commission.

In 1936, Wilson became special adviser to Dr. Vannevar Bush, then vice-president and Dean of Engineering at the Institute. He served under Dr. Bush again during the war when he joined the latter's Office of Scientific Research and Development. In January, 1946, he was made secretary of the board of consultants on the International control of atomic energy under the chairmanship of David E. Lillenthal. Wilson has served as a consultant to the Atomic Energy Commission since its formation in October, 1946.

The Tech To Begin Classified Ad Section

THE TECH wishes to announce a new policy of carrying classified advertising at the following rates: \$1.25 per inch per one insertion, \$1.10 each per inch per two insertions, \$1.00 each per inch per three insertions. The minimum insertion will be 1/2 inch at \$0.75. All those wishing to advertise should drop a card in The Tech business Office, 301 Walker Memorial with the desired advertisement and the place where the advertiser can be located.

Wiener Rebels For Scientists

Withholds Information Destined For War Use

Professor Norbert J. Wiener, member of the Institute faculty in the department of Mathematics and one of the world's ranking mathematicians, came out squarely in favor of scientists withholding vital information which "may do damage in the hands of irresponsible militarists" when he cancelled a scheduled address before a symposium on calculating machinery at Harvard University last Wednesday.

His action constitutes an affirmation of the stand taken by Professor Wiener in a letter published recently in the Atlantic Monthly magazine entitled, "A Scientist Rebels." In this letter, he raised the issue of moral responsibility for the application of scientific discoveries to the "bombing and poisoning of defenseless people."

"In the past," the letter in the Atlantic Magazine reads, "the comity of scholars has made it a custom to furnish scientific information to any person seriously seeking it. However, we must face these facts: The policy of the government itself during and after the war, say in the bombing of Hiroshima and Nagasaki, has made it clear that to provide scientific information is not a necessarily innocent act, and may entail the gravest consequences."

Professor Wiener's letter was composed in answer to a request by a research scientist of an aircraft corporation for a copy of a paper written for the National Defense Research Committee during the war involving controlled missiles. "Since it is obvious that with sufficient effort you can obtain my material," wrote Professor Wiener, "I can only protest pro forma in refusing to give you any information concerning my past work."

"However, I rejoice at the fact that my material is not readily available, inasmuch as it gives me the opportunity to raise this serious moral issue."

"I do not expect to publish any future work of mine which may do damage in the hands of irresponsible militarists."

I.Ae.S. Planning To Travel To Pratt & Whitney Plant

Members of the Technology branch of the Institute of Aeronautical Sciences will visit the Pratt and Whitney Aircraft Co. plant in Hartford, Conn., on Friday, January 17. This is the first plant trip sponsored by the I.Ae.S. this term, but more are being planned for the future.

I.Ae.S. members of foreign citizenship who wish to make the trip should see Marvin W. Sweeney, '47, Secretary.

Judson Named Gen. Manager Of 'The Tech'

Spitz, Singer, Kreek, Kahn, Receive Places On Managing Board

Arnold S. Judson, '47, has been appointed General Manager of The Tech for this year, it was revealed last Friday at the annual staff banquet held at the Hotel Statler. Other members of the Managing Board are Peter H. Spitz, '48, Editor-in-Chief; Arnold M. Singer, '48, and Louis F. Kreek, Jr., '48, Co-Managing Editors, and Burton H. Kahn, '47, Business Manager.

New appointments to the Junior Board included Joseph J. Baron, '48, Assignments Editor; Carleton H. Boll, '48, Personnel Manager; Daniel J. Fink, '48, Associate Features Editor; James I. Maslon, '49, Advertising Manager; and Ephraim M. Sparrow, '49, Exchange Editor. Re-appointed were Harrison E. Rowe, Malcolm E. Reed, George A. Freund, and David R. Israel, all of '49, as News, Desk, Features, and Sports Editors, respectively.

Claude W. Brenner, retiring General Manager, was placed on the Editorial Board, along with John A. Cornell, and Donald A. Mains. All are in the Class of '47.

Staff Assistants are: Robert D. Fier, '49; Robert S. Friedman, '48; David A. Grossman, '50; Orvis B. Hartman, '47; Frank W. Heilenday, '48; Thomas L. Hilton, '49; Jerome A. Lewis, '50; Jay J. Martin, Jr., '47; Donald W. Ramsey, '50; and Theodore E. Thal, '48. It was announced that all freshman candidates and reporters have been accepted to the board of The Tech as staff members.

Awards of the freshman point contest, which has been in progress since the beginning of this term, were presented to Grossman in the news department and to Lewis in the business department. Sander Rubin, '50, of the news department received honorable mention.

Speaker of the evening was Dean Everett M. Baker, newly appointed Dean of Students, who made his first address before any group at Technology. Originally scheduled was Mr. Albert J. Browning, vice-president of the Ford Motor Company and a former general manager of The Tech, who was unable to attend because of bad flying conditions.

Dean Baker contrasted what he considers real education with the purpose of colleges—to offer a liberal education in the sense of a

(Continued on Page 3)

Reports To Be Mailed On Friday, February 7

Reports for the Fall Term 1946-47 will be mailed to the term addresses on Friday, February 7. Students who wish to have their reports sent elsewhere must call at the Records Office not later than Monday, January 27. Duplicate reports for students who are under age will be sent to the parents.

No reports are sent to students who are candidates for the degree in February 1947. Any senior who desires a photostat copy of his complete record at the Institute should leave an order at the Registrar's Office, Room 7-142. There is a charge of \$1.00 for the first photostat and \$0.25 for each additional copy ordered at the same time. These will be available about March 1.

Notices of Recommendation for the February 1947 candidates for degrees will be mailed to the Term Address on Tuesday, February 4. Please be sure that your term address as given in the Information Office is correct.

Tech Revelers Dress Up In Barn Dance Fashions For Cain-Techy Carnival

T.C.A. Clothing Drive Underway

Donations Go Directly To European Students

Clothing for European students is now being collected by the Technology Christian Association in a drive that will continue until January 18. The clothing that is contributed by Technology students and personnel will be shipped as a gift from Technology directly to the European universities through the cooperation of the Unitarian Service Committee.

Not only is clothing urgently needed by European students but also scientific and technical books and periodicals (published since 1939.) Following are excerpts from a report by Jadwiga Lipska, secretary at the Unitarian Service Committee in Warsaw, Poland. "There are 1260 students, among them many refugees, so that about 60% of them badly need help—clothing mainly." "The food is nourishing but there is not enough of it, for the servings are very small, and no fats at all are served." "For breakfast and supper the students get coffee and dried bread." "This month no bread at all has been received." (Students) "are using mainly handwritten texts."

The cooperation of the U.S.C. will insure that the gifts of Technology go directly to the students, and that none of the aid ends up in the black markets of Europe. The representatives of the committee will distribute the articles to the most needy students in cooperation with the local student organizations of the European universities.

Clothing should be in usable condition when donated as no facilities are available for their repair. If students have no old clothes or books to spare and still would like to help out, contributions may

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The Tectonians Supply Music For Tonight's Dance

A great storm of excitement is expected to settle over the usually sedate and dignified edifice known as the Walker Memorial Building tonight beginning about 9:00 P.M. when those prophets who know claim that the Cain-Techy Carnival will get under way with a roar. Lasting until about 1:00 A.M. the dance will feature the music and rhythm styled for dancing by the Tectonians. Led by Robert Crane, '48, this twelve-piece orchestra specializes in smooth and soft music.

Tickets for the dance which is sponsored by the M.I.T. Veterans Association, may be obtained in the Lobby of Building 10 for \$1.80 per couple this afternoon, and if there are any left this evening, there will be door sales. Tickets are going fast and the dance committee expects a sell-out.

The Cain-Techy Carnival is an unusually informal affair; in fact the suggested dress is barn-dance style, dungarees and plaid shirt for both fellows and girls. In keeping with the dress the whole style of the dance will be gay.

Marriage Contest

One of the sidelights of the evening will be a contest to see which fellow and girl can succeed in being married the most times by the preacher who will be provided for the purpose for a slight fee of 10 cents per marriage. The fellow and girl, whether or not they are dates, who succeed by hook or by crook in marrying the most times will be united in matrimony at the end of the contest and will be given one of the many prizes which are in store. In all about 15 prizes will be awarded for such reasons as physical qualifications (big feet?) or for wearing what the judges consider the most suitable outfits.

(Continued on Page 4)

New Directory is Largest in History; VI Leads Courses; 264 Foreigners Here

The 1946-1947 Students' Directory Issue of the Massachusetts Institute of Technology Bulletin, published in December, is the largest directory in the history of the Institute. It is available for those who wish a copy in the Information Office, Room 7-111.

The new directory contains over ninety pages of information, including a complete list of students with their courses, terms, and addresses; telephones and addresses of fraternities and other living units; and a list of courses offered by the Institute.

Upon closer examination one can glean some interesting and revealing facts from the maze of names and numbers. It is easy to see that the most popular course at the Institute at the present time is Course VI, Electrical Engineering, in which over 20 per cent of the students are enrolled. This may be due in part to the experience gained during the war by many veterans in the fields of radar and electronics. The recent increased enrollment in Course VIII seems to substantiate this theory. Three out of every four students at Technology are taking one of six courses: II, VI, VIII, X, XV, or XVI; the other one is in one of the other fourteen courses. Those with the smallest enrollment are VII, IX, XIV, XVII, XIX, and XX.

The list of students' homes yields some interesting data too. Of course, from a student body of over 5,000 students, one would expect all 48

states to be represented. A large majority of the students live in Massachusetts, New York, New Jersey, and Pennsylvania. An unusually large number comes from Delaware in comparison with the more populous states.

A further look discloses that 264 students come from 52 foreign countries, islands, or U. S. possessions. As one might expect, the largest group is the Canadians, 48 in all. Nearly half of them live in Ontario, while Prince Edward Island is the only province not represented.

Next in size is the Chinese group, numbering 25, followed by 23 from Norway, 18 from Cuba, 11 from India, 11 from Turkey, 9 from Mexico, and 8 from Argentina, Brazil, and Peru. The remaining 95 are from 42 other nations, including 8 in South America, 11 in Central America and the West Indies, 14 in Europe, 6 in Asia, 6 in Africa, and the Philippine Islands, Hawaiian Islands, Newfoundland, Iceland and Cyprus. So Technology is truly a melting pot, with persons from every corner of the world studying here.

The names themselves show a common tendency. There are 44 Smiths among the student body. The Browns, their nearest rivals, are far behind with only 23. "Keeping up with the Joneses" is not such a difficult task around here. There are only 14 Joneses, but the Millers number 19 and the Johnsons 18.

The Tech

Vol. LXVII Friday, January 10, 1947 No.1

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A CHANGE OF STATE

President Truman startled an uneasy world, last Wednesday, with his appointment of General George Marshall as the new United States Secretary of State, replacing Mr. Byrnes who is retiring for reasons of ill health. It is certainly too early to foretell the repercussions and influence that this appointment will have on our future international relations, but it might be interesting to speculate a bit on the consequences of this replacement.

Immediately flashing to the forefront is the fact that General Marshall is a military man. A military career is not the best preparation for a position of this sort for several reasons. Firstly, a military man would naturally tend to think in terms of military power which is already too intimately connected with international relations. This would only aggravate the situation by giving power politics an exaggerated importance. Marshall has shown, in China, furthermore, that he gravitates toward military circles by preferring to do business through them rather than the American embassies in Chungking and later Nanking. It is not unreasonable to suppose that General Marshall would introduce into the State Department several of his military friends, thus aggravating the situation even further. The general feeling in socialist England is that Marshall's appointment constitutes but greater proof of the swing to the right of "capitalist-militarist" United States.

On the other side of the ledger, however, the picture looks much brighter. It is a well known fact that General Marshall has had a long career in the field of international politics, and that he was one of President Roosevelt's most trusted aides. In fact, they were present together at most of the crucial conferences during the war, where high allied strategy was planned, and where the basis for the United Nations was formulated. Thus, Marshall became acquainted with the men who are now the prominent diplomats on the international scene, as well as with their methods of operation.

He has shown during the war and time again his ability for long range planning. If he carries this ability into the precincts of the State Department it will be quite an innovation for that worthy organization has not shown itself capable of seeing into the future for more than a few months at a time. It might also be interesting to note that Marshall will probably be more popular with the Russians because of his straightforward methods of doing business. Marshall's appointment, then, might lead to more harmonious relations with the Power of greatest consequence to us.

After all these considerations, it would appear quite evident that General Marshall is a man of great capabilities insofar as his experience in international affairs is concerned. It is, of course, too early to decide exactly how much his background will influence his thinking, and to what extent he will rely on the military for aid and information. We can only hope and pray that he will place himself above these influences and institute a clear-cut, long-range foreign policy for this nation which will lead in only one direction, that of world peace and cooperation.

THE SHAPE OF THINGS TO COME

It is always with a certain sense of awe that a new managing board takes over the reins of a newspaper. The task which lies before it carries weighty responsibilities which should be fully realized and understood by the new board.

In our times, events happen swiftly, following one another in rapid succession and leaving us little time to think matters out for ourselves. Thus we allow ourselves the luxury of having other people to do our thinking, often taking our ideas from screen, radio, or press whether these ideas represent inherent truisms or perhaps one-sided, non-factual opinions. We need not go too far to find examples of the misuse of the power over public opinion nor of the harm caused by this abuse of the right of free speech.

In view of this situation, the new managing board pledges itself to act as impartial observers both to the local and national scene, to present facts as facts and opinions as opinions, so as not to sway the minds of our readers in any manner whatsoever. Let both sides of a question be fairly represented and may facts bear out the truth!

More than that, the new board dedicates itself to make **The Tech** more of a real school organ. We want to print articles of interest to every student and conversely to limit stories which interest only relatively few readers. Furthermore we shall try to avoid throwing emphasis on the unimportant matters and will stress those of concern to all.

Through publication of the activities of various other Technology groups we hope to encourage more students to "come out" for them. Studying, though of paramount importance, is not the be-all and end-all of college life. The relaxation obtained by engaging in extra-curricular activities of a worthwhile nature will pay rich dividends.

Boston can be Beautiful

by Dave Grossman

While some of our fellow students (who come from such outlandish places as Oshkosh, Kalamazoo, and Juniper Grove) may disagree with the title of this column, we're going to try to show that there really are places of estimable interest in the Hub of the Universe. Foremost on our agenda of enlightenment is the Institute of Modern Art, a gallery of modern painting, sculpture, and architecture that is situated at 138 Newbury St., in the Athens of America.

For the information of any Techmen who care to follow in our tracks, the best way to reach the Institute is to take the El to Park Street and walk along Boylston Street toward the Public Garden. Newbury Street is one block to the right and about three blocks up from Park Street.

We first visited this artistic haven last month, when it was having its tenth anniversary show. The exhibits covered a good part of the modern art of the last ten years and had samples of the surrealist, abstract, and expressionist schools. The paintings that especially attracted us were several small Salvador Dali surrealisms, a Pablo Picasso abstraction, and a large composition board work, "The Sob," by a Mexican, Peter Sequieros. Altogether there were pieces by over forty modern artists, including Americans, Mexicans, Germans, Frenchmen, and a lone Russian, Tchelitchev.

The current exhibit at the Institute is a retrospective showing of the watercolors, oils, and drawings of John Marin, the 76-year-old American artist. Marin is a member of the semi-abstract school and paints in his studio on Deer Island, Stonington, Maine. The Marin show will be in Boston until February 16, when it moves to Washington. The next scheduled show is a showing of modernistic architecture by Louis Sullivan which will open March 3, and continue through until April 5.

The Institute of Modern Art is open Tuesday through Saturday, 11:00 A.M. to 6:00 P.M., on Wednesday until 10:00 P.M.; and on Sunday from 2:00 P.M. until 6:00 P.M. As there is no admission charge, this is a good place to prove to your lady friends that Techmen are not entirely devoid of artistic spirit.

Reviews & Previews

It was a somewhat amazing, not to mention gratifying, experience before vacation, to hear a nearly complete performance of Handel's great oratorio, **The Messiah**, performed by soloists, chorus, and symphony orchestra recruited exclusively from the Technology "family." That the Institute with its reputation of one-sidedness was capable of producing enough talent for such a production is worthy of some consideration.

It was unfortunate that the interpretation, for the most part, did not measure up to the quality of the participating talent. Henry J. Warren, who is primarily a choral conductor, was obviously not at home conducting an orchestra. His choice of tempo in several of the choruses (notably "And the Glory") was decidedly on the fast side, and his phrasing on the whole was quite sloppy, to say nothing of the liberties taken with the score and arrangement of numbers. The high point of the performance, however, was the "Hallelujah" chorus, for some reason placed at the end of Part I, conducted by Antonio J. D'Almeida, '48.

The soloists gave very convincing performances, and the general tone of the chorus was very smooth with plenty of power. The orchestra provided an excellent accompaniment in the arias and choral numbers, and really shined in the Overture and Pastoral Symphony.

We would like to see the Institute present

In The Spotlight

Do you read our masthead, hmm? (That's the box above the editorial). Well, we've got a new one this week. "The old order changeth"—Tennyson. Just to show him that we have no hard feelings we'll turn the spotlight on our ex-General Manager, Claude W. Brenner, '47, this week.

Claude was born on July 7, 1928, in Pretoria, Union of South Africa. He made trips to the United States in 1932 and 1933 and has also visited England. So much for his early life. In 1939, two weeks before war was declared, he came to this country with his mother for a third time and settled in Chicago, where he attended Lake Forest Academy.

In 1944 Claude graduated first in a class of forty-two. He immediately rushed to Technology, pausing only to celebrate his sixteenth birthday three days before entrance. Although he was originally in the class of 2-47, Claude took a vacation thereby postponing his graduation until June.

Uncle Sam helped Claude in his career on **The Tech**. After serving the usual term as freshman reporter, Claude found himself being rapidly promoted because the older men were being drafted right and left. (How did politics get in here?) Soon Claude was Features Editor, then Editor. Finally his big chance came—the General Manager was drafted. Who but young Claude could take his place? The answer came ringing back, "No one." There just wasn't anybody else under draft age.

Contrary to various insidious rumors, Claude is a normal human being. His only aberration is that he is crazy about Technology. However, he indulges in all four vices: smoking, drinking, swearing and women, also a few secret ones. During his years at the Institute, like most Techmen, he has found little time for outside reading. As a matter of fact, excluding Sears and Phillips, the only book he has read in recent years is **Forever Amber**. This was a complicated maneuver involving several skirmishes with the Watch and Ward Society, from which he boasts several scars.

In case anyone wants to know, Claude is a course XVI man. He attributes his interest in aeronautics to a model airplane he built when he was eleven. After graduation in June, Claude hopes to attend graduate school; if Technology doesn't want him he'll go to Cal-Tech, but he says, "I'll be homesick for Tech." Eventually, Claude hopes to return to South Africa and push slide rules.

Claude has taken part in many extra-curricular activities besides **The Tech**. He has played principal parts in three Drama Shop produc-

tion of **The Messiah** become a regular event at Technology, being given at least once if not more per year. Not only would it furnish an excellent outlet for the great amount of talent we have here, but it would also add to the prestige of the Institute, informing the general public that Technology is more than just a factory.

A. S. J.



CLAUDE W. BRENNER

Other activities include: Dormitory Committee, Senior Class Representative on the Institute Committee Senior Week Committee, Member-at-large of the Executive Committee, Gridiron Society, Beaver Key Society, Baton society, Dorclan, Agenda (in the good old days when it wreaked its will upon frosh), and Helmsman in the Nautical Association.

Anyway, Brenner is dead. Long live Judson!

Letters to the Editor

Editor, **The Tech**
Walker Memorial Building
Dear Sir:

In answer to the letter by Jack Lehmann printed in the Dec. 20th issue of **The Tech** regarding the presumed impracticability of reinstating baseball and football as M.I.T. Varsity sports: It is very clear that Mr. Lehmann's attitude (and thus presumably the attitude of the M.I.T.A.A.) is definitely negative towards trying to reinstate such sports as football etc. In lieu of a real reason we are told that "I, for one, favor any movement by the students to better our sports program," but are put off with a vague reference to material and materiel obstacles. We are led to believe that those of us here at Tech who would like to have football must face the insurmountable stumbling blocks of "Lack of athletic equipment, playing space, the time element, and budget requirements of other sports." The last of these items is better left without discussion for it would only lead to petty remarks about the dogmatic ruling and definite partisanship of the Advisory Council.

But the other "stumbling blocks" plus the fact that the experiment was tried and the "Novars" abandoned, can certainly stand further analysis. There is a certain amount of truth about all these statements. At the moment there may be insufficient equipment, playing space, or time, but if so it is because of the basic attitude of the athletic leaders such as Mr. Lehmann.

Certainly, if other engineering schools throughout the country find it feasible to have football and baseball teams, there must be good reasons. And the main reason that M.I.T. does not take any broad view towards sports is because of the men in charge. Sports at M.I.T. should be run entirely by men who know many sports through experience, and who have an earnest desire to see sports at Tech not remain the near-dead and fast atrophying thing it has been for so long, but to make it a going concern which would enlist student body support and in turn mutually support student body morale.

If the "Novars" had not been kept to their subjugated position of no varsity, but had been supported enthusiastically by all concerned—A.A., students and administration—it would have flourished and taken its rightful place as a varsity sport at M.I.T.

Very truly yours,
Andrews Lang, '49

WMIT Program Schedule

- MONDAY, JANUARY 13
 - 8:00—Beaver Band Parade
 - 8:30—On The Town
 - Gilbert and Sullivan—The Mikado
 - 9:00—The Concert Hall
 - Prokofiev—Classical Symphony
 - 10:00—Swingtime
 - 10:35—10:55 News (The Tech)
 - 11:00—Music Immortal
 - Brahms—Symphony No. 1 in C minor
- WEDNESDAY, JANUARY 15
 - 8:00—Beaver Band Parade
 - 8:30—On The Town
 - Gilbert and Sullivan—The Mikado
 - 9:00—The Concert Hall
 - Brahms—Violin Concerto in D major
 - 10:00—Swingtime
 - 10:35—10:55 News (The Tech)
 - 11:00—Music Immortal
 - Prokofiev—Piano Concerto No. 3 in C major
- FRIDAY, JANUARY 17
 - 8:00—Beaver Band Parade
 - 8:30—On The Town
 - Gilbert and Sullivan—The Mikado
 - 9:00—The Concert Hall
 - Tchaikovsky—Symphony No. 6 in B minor
 - 10:00—Swingtime
 - 10:35—10:55 News (The Tech)
 - 11:00—Music Immortal
 - Prokofiev—Alexander Nevsky: Cantata

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T. C. A. Sponsors Acquaintance Dance

Girls Of Twelve Schools Attending Dance Jan. 17

Girls from twelve schools in the Boston area have been invited to attend the Acquaintance Dance being given by the Technology Christian Association in Morss Hall, Walker Memorial, Friday, January 17. Dancing will begin at 8:30 P.M., and will continue until midnight, with music by Duke Davis and his orchestra. There will be no admission charge for girls; wolves will be charged \$1.00 (tax included).

An unusual feature of the dance is the fact that most of the girls' schools invited will be represented at a Technology acquaintance dance for their first time. Invitations have been sent to Bouve Boston School of Physical Education, the Kathleen Dell School, Erskine, Katherine Gibbs, Leland Power School, Lesley College, Winsor School, Wheelock College, Emmanuel College, Regis College, the Academie Moderne and Boston College.

Chaperons for the dance will be Dean and Mrs. Everett M. Baker, Prof. and Mrs. Leicester F. Hamilton, Mr. and Mrs. Wallace M. Ross, and Prof. and Mrs. Walter H. Stockmayer. This will be the first dance that Dean and Mrs. Baker have chaperoned at Technology.

Institute Committee BRIEFS

Several student organization constitutions and elections were discussed at the regular meeting of the Institute Committee held yesterday. Newly elected officers of the Debating Society, the Outing Club, and The Tech were approved by the Committee. Also approved were new constitutions of the Debating Society and the Hobby Shop.

A proposed constitution for the Combined Professional Societies was tabled for further action. The recent activities and future plans of the Lecture Series Committee and the Debating Society were reported on. In answer to a question concerning the decreased size of milk bottles in the Walker Memorial dining service, it was reported that a temporary shortage was the cause.

February Graduates May Attend June Sr. Week

All students graduating in February who wish to go to Senior Week in June should leave a note to that effect in the Walker Memorial Committee office so that a ticket will be held for them.

Vice Squad Raids Dorms; Red Light District Vanishes

The M.I.T. vice-squad, ably headed by Mr. Dow, swooped down during the Christmas vacation on the dormitory rooms and removed all red lanterns in sight. The vice-squad laid its plans so as to accomplish the round-up while most of the students were away enjoying a few days of parole. As a result, no opposition or objections were encountered until the owners of the red lights returned from their all too short vacation.

No one seems to know why the red lights were removed. There is, however, much speculation going on as to what prompted the authorities to take such drastic steps. The most obvious, as well as the most propounded theory, was that as a result of so many red-lights blinking from the windows at night, M.I.T. was beginning to gain a reputation for other things besides a four-year course in slide rule accuracy. We, however, are not inclined to credit this theory, and, therefore, propose one of our own. We believe that the Watch and Ward Society, unable to find a book worthy of being banned, turned their attention to other matters, and noticed the aforementioned red-lights. True to tradition, they called the Dormitory Office's notice to it, and the latter took prompt steps to remedy the intolerable, although pleasant, situation.

"Tech" Promotions

(Continued from Page 1)

broad curricula emphasizing the classics, or training for a vocation, or some balance between the two. These a man may have without being educated, he claims, since the real measure of one's education is his ability to think intelligently and to carry his own weight in the school, business, and community of which he is a part.

He illustrated the converse by telling a story of a guide in a Canadian fishing region. "Although he cannot read or write," he said, "in my book he is an educated man. He is able to take care of himself in his world, and can get along with all types of persons." Further explaining his statements, Dean Baker pointed out that, although the guide lives in a less complicated world than we do, nevertheless he should be judged by his circumstances, and he is doing all expected of him. In regard to getting along with others, Dean Baker said that the guide was far ahead of many persons possessing much greater knowledge and social station, since he could impart his vast knowledge of his subject to others without show of impatience, even to those unable to bait their own hooks.

By way of contrast he told of a wealthy and prominent Cleveland industrialist with a degree from a well-known college, who one time while in a hospital, the nurses and even the maid refused to enter his room because of his grouchiness.

Dean Baker commented that Technology students are usually scurrying from class to class, leaving little time to think. This, he emphasized, leads to citizens who cannot shoulder their share of responsibility.

In closing, he told the story of a man who was confronted with an unusual choice when he died—heaven or hell. Looking at the latter, he observed a table laden with food; yet no one was eating, since their arms were so arranged that they could not feed themselves. He decided that he would prefer heaven, where, curiously enough, the table was laid out in the same manner and the same arm structure prevailed; yet everyone was happy, feeding the person across the table.

Pupils To Rate Course X Staff

Tau Beta Pi Trying Instructor Evaluation

For the first time in the history of Technology, students are being asked to mark their instructors. Next week all Techmen taking chemical engineering courses will be issued a questionnaire on which they will frankly rate their teacher in regard to twelve qualities "considered desirable in a good teacher." In order to preserve good will (and prevent reprisals by the faculty) the results of the whole affair will be just a mess of anonymous statistics.

Tau Beta Pi, the honorary engineering society, is responsible for the project. The idea has been tried in other schools, and excellent results have been achieved, Tau Beta Pi says. Chemical engineering courses are being canvassed with the full cooperation of the Course X faculty, a group of brave gentlemen. If everything is carried out successfully and students do their part in a serious manner, Tau Beta Pi hopes to try the program in all departments of the school.

The "Instructor Evaluation Sheet" which is what the questionnaire is called, pulls no punches. Instructors are marked on a basis of ten points in twelve considerations, including "knowledge of subject," "interest and enthusiasm," "appreciation of student's point of view," "ability to make subject interesting," "thinking demanded of students," "ability to express thought," "tolerance and liberality," and "self-confidence." There is also room for general remarks. At last Techmen will get a chance to see whether their profs, who are pretty good at dishing it out, can take it as well. Actually, of course, no one but the professor will see the bare facts of his students' opinions.

"Please do not sign your name or make any mark which might serve to identify you" is the advice on the questionnaire, and no student is likely to go out of his way to sign his name. Two Tau Beta Pi men will take over each class for a half hour to administer the poll. The sheets will be sealed and numbered, so that those who compile the results will not know either the students or the instructor involved. Finally, a member of the Society who knows nothing about the results brings the figures to the instructor. The instructor is then left alone to contemplate the awful truth in silence.

It is hoped that the comments will serve as constructive criticism and enable the faculty men to take action on common complaints. As Tau Beta Pi says, though, "The interpretation of the results is left to the discretion of the instructor."

Prof. Frank Will Speak On Graduate Work In Physics

The Physics Society will present a talk by Professor N. H. Frank, Chairman of the Graduate Committee of the Department of Physics. His subject will be "Graduate Work in Physics at M.I.T." The meeting will be held on Tuesday, January 14, at 5 P.M., in Room 10-250.

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Registration Material

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Registration material has been given to all first term freshmen this week during 5.01 laboratory class. All other students should obtain their material in the Building 10 lobby today from 8:45 A.M. to 2:30 P.M. The material may be procured at the information office, Room 7-111, after 2:30 P.M. All spring term material must be returned to Room 7-142 before 1:00 P.M. on Friday, January 17.

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REVIEWS FOR EXAMS

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8.01
(5 to 7 P.M.)
Mon. Jan. 20
Wed. Jan. 22
Thu. Jan. 23
Sat. Jan. 25
Sun. Jan. 26

5.01
(5 to 7 P.M.)
Fri. Jan. 17
Sat. Jan. 18
Sun. Jan. 19
Tue. Jan. 21
Fri. Jan. 24

M-11
(10 to 12 Noon)
Sat. Jan. 18
Sun. Jan. 19
Sat. Jan. 25
Sun. Jan. 26
Mon. Jan. 27

5.02
(5 to 7 P.M.)
Thu. Jan. 23
Sat. Jan. 25
Sun. Jan. 26
Tue. Jan. 28
Wed. Jan. 29

8.04
(8 to 10 P.M.)
Fri. Jan. 17
Sun. Jan. 19
Tue. Jan. 21
Fri. Jan. 24
Mon. Jan. 27

2.01
(5 to 7 P.M.)
Wed. Jan. 15
Sun. Jan. 19
Wed. Jan. 22
Mon. Jan. 27
Tue. Jan. 28

M-22
(5 to 7 P.M.)
Thu. Jan. 16
Sat. Jan. 18
Tue. Jan. 21
Fri. Jan. 24
Sun. Jan. 26

8.03
(5 to 7 P.M.)
Wed. Jan. 15
Sun. Jan. 19
Sat. Jan. 25
Sun. Jan. 26
Mon. Jan. 27

2.04
(8 to 10 P.M.)
Thu. Jan. 16
Sat. Jan. 18
Mon. Jan. 20
Wed. Jan. 22
Thu. Jan. 23

*10 to 12 Noon

**2 to 4 P.M.

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Spectroscopy Lab Extends Activities

Did Much Work For Manhattan Project

The reconversion program from war to peace at Technology includes reorganization of the Spectroscopy Laboratory and the extension of its facilities for cooperative research and graduate instruction. Prior to the war the Spectroscopy Laboratory was a part of the Research Laboratory of Physics, of which Dr. George R. Harrison was director, and its activities were concerned primarily with problems of interest to physicists.

In view of the valuable contributions which spectroscopy can make to research in all the basic sciences, the scope of the program has been enlarged by making the facilities of the laboratory more directly available to research workers in biology, chemistry, geology and metallurgy, as well as physics. It will operate as an independent entity under the Office of the Dean of Science.

During the war the laboratory was devoted almost entirely to work for the Manhattan project. It is now in process of reconversion and will shortly have facilities in working order for research in all the principal fields of spectroscopy. Specific research programs are planned in the fields of wavelength and intensity measurements, ultraviolet, visible and infrared absorption spectrophotometry, and the Raman and Zeeman effects. Included among these will be researches sponsored by the Office of Naval Research, and the American Petroleum Institute.

The Spectroscopy Laboratory will be operated under the supervision of an advisory committee composed of Dr. George R. Harrison, Dean of Science and a member of the department of Physics; Dr. Richard C. Lord, who is director of the laboratory and a member of the department of Chemistry; and Dr. John R. Loofbourow, professor of Biophysics and executive officer of the department of Biology.

Dramashop Plans Next Term's Play

Plans are now under way for the next production to be staged by the Dramashop, the Technology undergraduate dramatic society. The play chosen is "The Busman's Honeymoon," a murder mystery by Dorothy Sayers, well-known writer of detective fiction. Performances have been tentatively scheduled for the Easter week-end, Saturday, April 4. At the beginning of next term tryouts for positions in the cast and in the production staff will be held.

New officers of the Dramashop for the coming term have been elected. William M. Lustberg, '47, has been chosen General Manager, and Edith Gould, G, is Secretary-Treasurer.

All Senior Ring Orders Will Be Taken January 20

Orders for Senior rings for the class of 1948 and any previous classes will be taken on Monday, January 20, from 11:00 A.M. until 3:00 P.M. in the lobby of Building 10. Full details will appear in The Tech in the near future.

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Summer Term

(Continued from Page 1)

gram (tuition \$95.00) from June 16 to July 25. Course XVII Summer Camp will be held from July 21 to August 19. For Metallurgists, 2-851 will be required from June 16 to June 27 (tuition \$70.00.)

First-Term Juniors

For first-term Juniors, regular class schedules will be published and offered in courses II, IV, VI (all options), VI-A, X, XV-A, XV-B, and XVI. No regular summer program will be offered in Courses I and XVII. In all other courses, many of the basic subjects will be offered over the 14-week period, although attendance does not warrant full schedules. The Institute will add supplementary courses if there are six or more applicants, and the facilities and staff are available. Any student in any of these courses who wishes to attend in the summer should confer with his registration officer about any required subjects not scheduled. Incidentally, starting with the 1947 14-week summer term, the tuition will be \$350.00.

Courses II, V, VI (all options), VI-A, VIII, X, XV-A, XV-B, and XVI will offer regular class schedules for 3-2 men. Courses I and XVII will only offer the required summer camp. Other courses are giving incomplete schedules.

Course X men will not be required to take 10-26 during the 1947 summer term.

Senior Program

For first-term seniors courses II, VI (all options), VI-A, X, XV-A, XV-B, and XVI, will offer regular class schedules. Courses I and XVII will have required summer camp. The other courses will have the same system as for Juniors.

For second-term seniors class schedules in Courses I, II, V, VI (all options), VI-A, X, XV-A, XV-B, and XVI, will be offered. All other courses will again work under the above stated system.

"A" subjects for graduate students will not be offered. Tuition fee for Doctors' thesis will be \$125.00. The Institute reserves the right to cancel any subject having less than six students registered and attending during the first week.

Calendar for 1947 Summer Term
Below is the calendar for the summer term. No Saturday classes will be held:

June 16, Monday—Registration Day.
July 4, Friday—Holiday.
September 1, Monday—Holiday.
September 19, Friday—Last Classes (no final exams).
September 29, Monday—Registration Day for Fall Term.
The Summer Session Bulletin will

Cain-Techy

(Continued from Page 1)

A jail will also be provided for imprisoning those couples who are unfortunate enough to get picked up by the constable for committing misdemeanors. A number of temptations and pitfalls will be placed around the hall to test the will powers of the merrymakers and their dates. Of course, a court complete with judge will be on hand to see that justice is done.

Coeds Entertain

Some of the coeds will furnish a bit of unusual entertainment with the aid of some of the less bashful jokers. A balloon shower will descend upon the revelers later in the evening. A few enterprising couples might even make their fortunes when the balloons are released from the ceiling, it is rumored. Refreshments, however, will be served to the winners as well as the losers.

The thaperons for the dance will be the following: Professors and their wives; F. Alexander Magoun, B. Alden Thresher, Frank J. Mehninger, and Ralph G. Hudson.

be ready about April 1, and registration material on May 1.

In the Fall of 1947, first-term curricula will be offered for all undergraduate years and second-term for Juniors and Seniors. In the 1948 spring term, all second-term curricula and first-term Senior subjects will be given. Tentative plans for the 1948 summer call for regular pre-war schedule (two six-week periods), with the exceptions of regular 4-2 and possibly 4-1 class schedules.

Navy Department Confers Award To Ordnance Lab.

The United States Navy Department, through the Chief of the Bureau of Ordnance, has conferred upon the high voltage laboratory, the Naval Ordnance Development Award. This honor is granted in recognition of the distinguished service of the laboratory to research and development of naval ordnances.

In addition to the certificate for distinguished service to naval ordnance development presented to the laboratory, each member of the staff was presented with a lapel emblem, a symbol of appreciation for their services. Those who received these awards were Professor Robert J. Van de Graaff, Director of the Laboratory and the Associate Director Professor William W. Buechner; Mr. E. Alfred Burrill, Jr., Professor Herman Feshback, Mr. Lloyd R. McIntosh, Mr. Everett W. Nickerson, Professor Walter C. Schumb, Mr. Anthony Spurduto, and Mr. Wilton A. Tripp.

Dr. Compton Plans Dinner For New Dean Of Students

Dr. and Mrs. Everett M. Baker will be the guests of honor at an informal buffet supper to be held by Dr. and Mrs. Karl Compton at the President's House on Sunday evening, January 12. Approximately fifty guests have been invited, including leaders of undergraduate activities and faculty members having special interests in student affairs.

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5:15 Club Holds Bridge Tourney

Make Eliminations For National Tournament

The first of a pair of duplicate bridge tourneys, which will serve as the means of choosing teams to represent Technology in the National Intercollegiate Bridge Tournament, is to be held at Walker Memorial on Saturday, January 18. Present plans call for two, and possibly three or four of these elimination tournaments, to choose the four teams which will take part in the first of a series of national eliminations to be held in late February. The tournaments to be held here at Tech will be sponsored by the 5:15 Club. Master Sergeant Roy Enemark of the Military Science department will be the faculty advisor for the tourneys, while Gerry Grott, President of the 5:15 Club, will be the non-playing captain.

Entries for the first elimination tournament, which will temporarily supplant the regular duplicate bridge play held on Saturdays by the 5:15 Club, must be received in the 5:15 Clubroom by 5:00 o'clock next Thursday evening. An entry fee of 50c. will be charged for each team of two men. This money will be used to defray the cost of the playing cards and the special duplicate bridge boards which are used. Any additional amount will be used for prizes which will be awarded in addition to any places which may be awarded on the final team.

The national tournament is being sponsored by a group of college alumni interested in promoting the game of bridge. The committee has held these tournaments for several years with the previous years winners including Radcliffe and Cornell.

Brown U. Downs Technology Five

Height Of Opponents Marks Tech Downfall

On Friday, December 20, Tech's basketball squad dropped its third game of the season to Brown University 49-62 at Providence. Brown had plenty of height over Technology's small first string and according to Coach James McCarthy "the team played its poorest game of the season" in succumbing to the Bruins. This marked the first win of the season for the Brown five, who had previously fallen before Harvard.

The game was marked by many fouls and by the inability of Tech to find the mark on the foreign gym. Only Lou Morton scored consistently for the Beavers, swishing 14 points by long hook shots to lead the scoring for both sides. The score at the half, 32-15 against Tech, was more than half accomplished by four of Morton's field goals. Captain Roy Watson ranked second in the scoring honors with 12 points. Zuber with 11, and Corner and Grimshaw with 10 each paced the Bruin victors.

Last night the Tech courtmen played at Mass. State Devens, but the results of the game were too late for publication in this issue. Earlier in the season Technology scored a 56-52 triumph over the Mass. State five.

Boat Club Holds Dance At Union Club Tonight

The M.I.T. Boat Club announces its annual "sweep-swingers hop" to be held tonight at the Union Boat Club in Boston. Although in hibernation during the war years, the club has rapidly organized again this fall with 58 members. At a recent meeting it was voted to hold the dance, which is restricted to crew men. Dance committee chairman Bob Silberman announces music will be by Ambrose. Tonight is the last chance the crew has to have a "fling" before training starts Saturday morning and continues till the close of the season in June or July. Thus this evening should be well remembered.

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Tankmen Beat Tufts By 66-9 At Alumni Pool

Swimmers Compete With Trinity Squad Tomorrow Afternoon

Fresh from a resounding 66-9 victory over Tufts, the Varsity Swimming Team will clash with Trinity College at Hartford, Conn., tomorrow afternoon at 4:15 P. M. Trinity, engaging in its first meet of the season, is said to have a strong team, with several outstanding individual swimmers.

The Technology swimmers swept to an almost perfect triumph in swamping Tufts last Wednesday evening at Alumni Pool. The Techmen piled up perfect scores in every event except the 200-yard breaststroke, where Tufts managed to squeeze through a second place.

Tying the record which he himself established, Technology's Jim Leonard churned through two lengths of the pool at a terrific pace to capture first place in the 50-yard freestyle with the record-tieing time of 24.1 seconds. Following in the wake of Leonard, Ted Thomas of M. I. T. took second honors.

In the 400-yard freestyle, Bill Russell and Paul Hurlbut garnered first and second place, respectively, for M. I. T., as the tiring Tufts swimmers failed to maintain the pace of the grueling swim. Techmen taking first and second, respectively, in the 220-yard freestyle were Emerson Callahan and John Searle, while Dave Kellom and Reg Stoops pulled up to the finish ahead of the two Tufts natators in the 100-yard freestyle.

Gaining a win for Technology in the 150-yard backstroke, Dick Pitter took first place, with Ben Dann, of M. I. T., coming in for a second place. The 200-yard breaststroke, the only event the Techmen failed to blanket, was won by Henry Morgan, of M. I. T. Welsh, of Tufts, placed second to be the only three-point winner from the visitors.

Zigy Unuvar, with 61.3 points, and Ed Cote, with 55.8 points, came through with first and second places for M. I. T. in the diving event. Sweeping to victory in both relays, Technology piled up ten more points to the grand total. Tech's 300-yard medley relay team of Ben Dann, backstroke; Henry Morgan, breaststroke; and George Loomis, freestyle, knifed its way to a smooth triumph in the time of 3:18.8. The Technology team of Ted Thomas, Dave Kellom, Reg Stoops, and John McCabe floated to an easy victory in the 400-yard relay—the final event of the competition—in the time of 4:21.7.

The M. I. T. Freshmen team clashes with the Brown frosh at Providence on Wednesday, 8:15 P. M. The meet is the third in the freshmen schedule.

Glee Club Plans Concert With Westbrook Jan. 18

The last concert of the term by the Men's Glee Club will be presented at 8:30 P. M. Saturday, January 18, in Morss Hall. The Glee Club of Westbrook College in Portland, Me. has been invited, and it is expected that about eighty girls from there will participate.

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by Dave Israel

Beginning with this issue The Tech will present as a regular feature on the sports page a weekly column of sport news and opinion. Through the medium of this column, to be written by the Sports Editor of The Tech, there will be presented an expanded facility for editorial comment concerning sports and associated activities at the Institute. For the first several weeks the column will discuss the various bodies and individuals which govern athletics at Technology.

Regulation of athletics here at Technology has been vested by the Corporation in the Alumni Advisory Council on Athletics. This group of men has complete and final control of athletics and associated interests at the Institute. The Council consists of eight members, five of whom are chosen by the Alumni Council. These five alumni members at present are John A. Rockwell, '96, Chairman; Ralph T. Jope, '28, Secretary; Henry E. Worcester, '97, William W. Garth, Jr., '36; and Lewis T. Jester, Jr., '41. The remaining three undergraduate members of the Council are Jack Lehmann, President of the A. A., Bob McBride, and Fred Heuchling.

The name of the Council is a complete misnomer, for in reality the Council has complete and final jurisdiction over all phases of athletics. The powers given them include that of complete authority over the selection of coaches, the use of the money which is allotted from each student's tuition for use in athletics, the approval of the scheduling of games, and selection of those sports in which the Institute participates.

A handy little pamphlet published by the Advisory Council contains not only the constitution of the Council, but the constitution of the M.I.T. A.A., the eligibility rules, and other rules concerning sports at Technology. The pamphlet has a glossy-coated foreword in which one might get the mistaken impression that the Advisory Council has merely advisory powers. It also contains a very fine-sounding summary of the general policies governing the choice of certain sports by the Council.

Careful reading of the short constitution of the Council, however, shows that it has some extraordinarily strong powers. The constitution is very loose and leaves much to the imagination. The selection of the undergraduate members of the Council is left entirely up to the alumni members themselves; however, actual policy has seen the Council select as members those chosen for that position by the Athletic Association in its own selections. No undergraduates hold office on the Council, although no such bar is provided in the constitution.

These, and other flagrant omissions in the governing constitution of an extremely important body at the Institute, show the need, if of nothing else, of a rewriting of the constitution so that powers are not so loosely defined and seemingly scattered to the winds. In the process, the constitution could also stand some changes which would aid relations between the Council and the student body at large, not merely with the members of the athletic teams.

In actual practice, however, al-

(Continued on Page 6)

Hockey Squad Splits 2 Games Over Vacation

Thompson Singlehands Northeastern Win; Madden, Clifford Star

Fred Thompson, Tech center, went on a scoring spree in the Tech-Northeastern hockey game played before vacation on December 18, and before the red lights had stopped flicking, he had slapped in five goals to the Northeastern team's four. Tying up the game once and putting his team ahead four times, the last time for keeps, Thompson almost singlehandedly upset the favored Huskies squad as the MIT sextet ran its record to two wins and no losses.

The game began slowly with the Beavers seeming to lack the aggressiveness that had driven them to victory over Tufts in their first game. Aside from Thompson's first goal, the only one of the opening period, the attack was carried by Northeastern alone. Consistently outskated, the Beavers were on the defense for the first twenty minutes; only the spectacular play of goalie Adams and defensemen Madden and Clifford, enabled the team to remain ahead.

The second period, however, was a complete reversal of the opening play. Both teams were faster and the play was far rougher as the emphasis shifted to constant attack. Northeastern came from behind and pushed ahead with two goals in the first eight minutes. However, Thompson tied it up at two all with a goal at 9:15 and the score remained tied for the rest of the period as the MIT squad again showed brilliant defensive play.

It was in the third period that Thompson went to town. Stepping from the penalty box at the beginning of the period, he picked up a loose puck, shot down the ice and by driving it past the bewildered Huskie goalie completed the "hat trick." Then, after Northeastern had again tied up the game, Thompson, on a nice pass from Captain Clifford, ran his total to four. With six minutes left to play Northeastern again tied it up, and, a few seconds later, Thompson completed the scoring for the night with his third unassisted goal, his fifth of the evening.

BEATEN BY B.U. 7-3

An undermanned but aggressive squad gained only a moral victory from a highly-rated B. U. sextet, as it received its first setback at the Boston Arena on December 23. For two and a half periods, in a battle for first place in the New England Ice Hockey League, the Beaver ice-men played a fine game, only to lose as the Terriers slipped in four goals in the last minutes of play. The Terriers, with two good lines in reserve, found the going easier towards the end as the Tech defense playing without the services of ailing star Ted Madden, suffered from a lack of strong replacements.

Before Capt. Jack Clifford could flip in the first Tech goal in the early minutes of the second period on a hard shot from thirty feet out, the B. U. skaters had counted three times. Ed Thompson scored unassisted several minutes later on a backhand angle shot. The second period ended with the heavily favored Terriers ahead by a 3-2 score.

The third period saw continued rushes by the Beavers, only to have one of these miss as Gerry Walworth's hard shot bounced off the post. At this point the undermanned Tech squad seemed to lose spirit as weariness overcame them. B. U., on four man rushes, slammed in four quick goals. To finish the scoring for Tech Thompson passed to Walworth, the latter slipping the puck past the prostrate goalie.

Shots From The Ice

Too much credit cannot be given defenseman Ted Madden, who in two games has not allowed one solo dash to pass him. . . On the other hand, five of Ed Thompson's goals have come the unassisted way.

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M.I.T. Outing Club Joins 13 Colleges In Winter Carnival

Busy 2-Day Schedule Includes Square Dance, Skating, Dinner, Skiing

The M.I.T. Outing Club is going all out in leading the I.O.C.A. Winter Carnival, an affair in which all local colleges are participating.

In addition, colleges as far south as Wheaton, as far west as Worcester Polytech and as far north as the University of New Hampshire are cooperating, which makes a total of 13 colleges in on the affair.

It will be held in the Boston area on Saturday and Sunday, January 11 and 12.

The program starts Saturday afternoon at 1:00 p.m. when a chartered bus will leave from in front of Walker Memorial with a load of students bound for ice skating at the Charles River Country Club. The Club boasts a privately owned and well cared for skating rink. There will be exhibition skating and competitions.

At 6:00 P.M. a dinner will be prepared by Simmons' girls at the Arlington Street Church to replenish the energy of the participants used up in skating. A square dance at Harvard Memorial Hall is the next feature on the program.

Al Smith will do the calling with the M.I.T. Corngrinders supplying the music. Only a limited number of tickets will be sold at the door.

On Sunday a skiing trip to Temple Mountain near Peterboro, N. H., is planned. Greyhound buses will leave from Walker Memorial at 9:00 A.M. Competition will be held at Temple Mountain for beginners and experts both, and there will be a jumping exhibition to add to the fun.

Tickets will be on sale in the Lobby of Building 10 during the noon hours today. These are available for separate events, but it is cheaper to buy the complete ticket for skating, dinner, square dance and skiing for \$2.40. Ski transportation is extra—\$1.70.

Clothing Drive

(Continued from Page 1)

be made in money which will be used by the Unitarian Service Committee to buy prepared relief units of food and medicine for the students. Walter M. Caiko, '49, Director of the Social Action Committee of the T.C.A., said, "It is estimated that \$5.00 will raise the diet of a student to a healthy level for three weeks which may make a vital difference to some one on the verge of contracting TB." The T.C.A. requests that any checks be made payable to the Unitarian Service Committee and sent to the T.C.A. office.

Faculty sponsors of the drive are Dr. James R. Killian, Jr., Dean Robert G. Caldwell, Dean Emeritus William Emerson, Prof. Erwin H. Schell, Prof. Karl L. Wildes, Prof. Paul M. Chalmers, Prof. Karl W. Deutsch, Prof. George de Santillana and Prof. Jerrold R. Zacharias. Prof. de Santillana indorses the drive particularly strongly since he observed first-hand the urgent needs of European students when he toured Europe recently.

The European universities to which donations will be sent were selected by a committee of Institute faculty and students. The universities are the University of Paris, the University of Florence, the University of Prague, and the Warsaw Polytechnical School.

Following is an individual case history taken from the files of the Paris committee of the U.S.C. Name of student: H. Major: Literature. Family situation: Expelled from Lorraine in 1940. Bombed out. Entirely deprived of property. Personal situation: Driven out of Lorraine in 1940. Joined the Resistance Political Partee. In Buchenwald for 2 years. In poor health, in need of supplementary food.

A. C. S. Sponsors Atomic Exhibit

Geiger Counter Clicks As Ore Samples Pass By

Of interest to everyone at Technology is the atomic exhibit now being presented in the Lobby of Building 7, sponsored by the American Chemical Society. All of the important aspects of the problems concerning atomic energy, from those concerning production to the political implications are illustrated and briefly discussed.

In the middle of the two main panels which contain most of the exhibits is a tall square structure. On the front is a graphical illustration of a chain reaction; on the back is a picture of the explosion of an atomic bomb, and the two sides contain editorials entitled "Peace and a New World" and "Will the Atom Pact Work?" The main idea expressed in these articles is that peace can be won only by effort equally as great as that with which we won the war. Free science is desirable, according to the ACS, but there must be adequate national and international control.

The panels which contain the exhibit itself show the essential features of every step in the manufacture of the materials needed for the production of atomic energy. There are very few large deposits of uranium; the ones used most during the war were located at Great Bear Lake in northern Canada and at Gilpin, Colorado. The principal ores used are pitchblende, carnotite, and autunite.

The next panel contains the most

interesting part of the whole exhibit, a Geiger counter. Four samples of radioactive material are continuously passing by the counter on a wheel and observers can hear the clicks from the amplifier.

Many of the processes used in the manufacture of plutonium and neptunium, two new elements created by scientists on the project, are illustrated schematically; and several of the uranium oxides, fluorides, and nitrates are shown. In addition to plutonium and neptunium, two new elements have been created.

Separation of plutonium is accomplished by a secret chemical process at Oak Ridge and Hanford. Thermal diffusion was first used to accomplish the separation of U235 from the more common form of uranium; however, the gaseous diffusion process replaced the original one. In this process a gaseous compound of uranium is pumped into a container with a porous barrier; the lighter U235 diffused through the barrier more easily. The material of the barrier is secret; it has very small holes, can withstand a pressure of 15 pounds per square inch, and can be manufactured in large quantities. The only other method used to separate the two forms of uranium is the electromagnetic method.

The most important factor in the winning of the atomic race was the cooperation which existed between all of the professions. The assembly of all of the various pieces of the puzzle by the scientists working on the project is the most amazing feature of the entire story.

Beaver Barks

(Continued from Page 5)

though the Council does have much authority, they have for the most part relegated a great part of it to the student body through the A. A. Actually the greater part of the handling of the affairs is done by the A. A.—including the purchase of equipment and the scheduling of contests. This has been done to such an extent that the control of athletics here at Tech lies more in the hands of the student body itself than in most other schools and colleges.

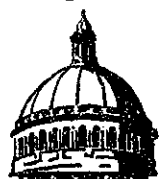
The Advisory Council has met much opposition lately on general matters of policy. This has centered around the proposed creation of a baseball and football team. Tempers have been hot and words strong; but in spite of it all, one must recognize the fact that the alumni members of the Council have for the most part served on that body longer than most students remain at Tech.

The alumni members of this Council serve on it only on a part-time basis—that is, only in what free time they might have. As is the case with the coaches of athletics here, they all have considerable outside interests and Technology sports and problems thereof can only receive but secondary consideration from them. It certainly is not right that such an important phase of school activity should receive second-hand attention; it merits much more!

The First Church of Christ, Scientist

Falmouth, Norway and St. Paul Sts. Boston, Massachusetts
Sunday Services 10:45 a.m. and 7:30 p.m.; Sunday School 10:45 a.m.; Wednesday evening meetings at 7:30, which include testimonies of Christian Science healing.

Reading Rooms—Free to the Public, 8 Milk St.; 84 Beyleston St., Little Building, Street Floor; 1316 Beacon Street, Coolidge Corner. Authorized and approved literature on Christian Science may be read or obtained.



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SERVICE TO THE STUDENT BODY

Du Pont Digest

Items of Interest in the Fields of Chemistry, Engineering, Physics, and Biology

High-Pressure Synthesis Opens New Chemical Fields

A Challenge to Research Men and Engineers

The use of techniques involving pressures up to and above 1,000 atmospheres (15,000 lbs. per sq. in.) has had a tremendous influence on chemical manufacture in the past twenty-five years.

The availability of unlimited quantities of nitrates via ammonia from nitrogen of the air by high pressure synthesis has greatly affected chemical economics as well as agriculture.

The plastics industry, too, has benefited greatly by the reduction in price of urea from about 80¢ lb. to less than 4¢, and methanol (to give formaldehyde) from \$1.25 gal. to less than 25¢.

High pressure syntheses have also participated in a major way in the development of entirely new products such as nylon and polythene. In fact, starting from coal, air and water, Du Pont now makes over 120 widely used products.

In addition to improving the existing processes of manufacturing ammonia, methanol, higher alcohols, urea and other important chemicals, Du Pont organic and physical chemists, chemical, mechanical and metallurgical engineers have discovered and developed high pressure syntheses for the following: ethylene glycol; hexamethylene diamine; acetic, propionic and hydroxyacetic acids; methyl formate; C₆-, C₁₀- and C₁₂- alcohols; and numerous others.

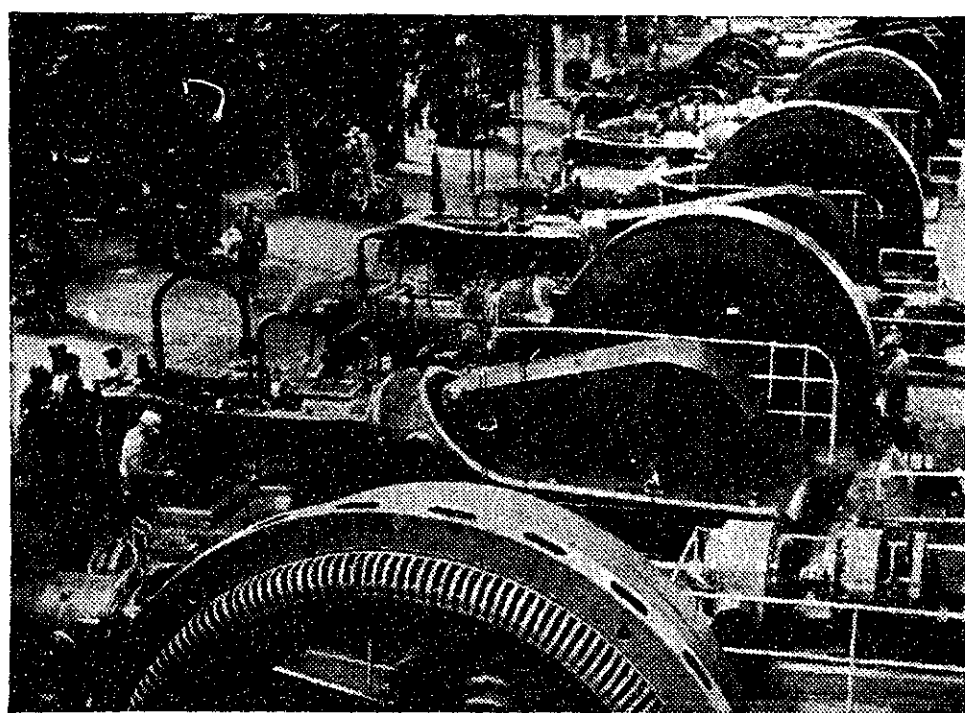
Advantages and Problems

The use of high pressures offers numerous advantages familiar to technical students, such as: (1) forcing an equilibrium in the direction of a volume decrease, (2) overcoming the reversing effect of high temperatures in exothermic reactions, (3) increasing reaction and through-put rates and (4) providing, in some cases, a liquid phase which might not otherwise be present.

The synthesis of urea from carbon dioxide and ammonia is a good illustration of some of these principles:



With three moles of reactants and only two of resultants, increase of pressure gives an expected increase in conversion.



A Battery of Hyper Compressors Used to Bring Gases up to 700-900 Atmospheres Pressure in the Ammonia and Methanol Syntheses.

At the same time, the gaseous reactants are forced into the liquid phase to give higher concentrations and again better conversion. The reaction rate and therefore the rate of passage through the reaction chamber are both increased by increasing the temperature under high pressure conditions. There are other equilibrium considerations that affect the industrial production of urea, but they are too lengthy to discuss here.

Along with its advantages, the use of high pressure gives rise to problems that often severely tax the abilities of engineers and chemists. For example, (1) difficulties of design of packing glands, valves, connecting rods, closures, etc., increase rapidly with increased pressure, (2) extraordinary corrosion problems arise in which even stainless steels are attacked and cannot be used, (3) ordinary steels are permeable to hydrogen at higher pressures and temperatures. These are but a few illustrations of the challenge that high pressure studies present to the technical man and particularly to the metallurgical and mechanical engineer.

High pressure synthesis has now become a separate field of industrial chemistry with an apparently limitless future.

Questions College Men ask about working with Du Pont

What kind of a technical organization does Du Pont have?

There are ten manufacturing departments in Du Pont, each operating as a separate organization and each with its own research and engineering staff. In addition, there is a central chemical department and a central engineering department. Consequently there is a wide variety of research and engineering work available to chemists, engineers and other technical specialists. For further information write for the new booklet "The Du Pont Company and the College Graduate," 2521 Nemours Bldg., Wilmington, Delaware.



BETTER THINGS FOR BETTER LIVING
... THROUGH CHEMISTRY

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Collegiate Digest

Volume 12 Issue 5

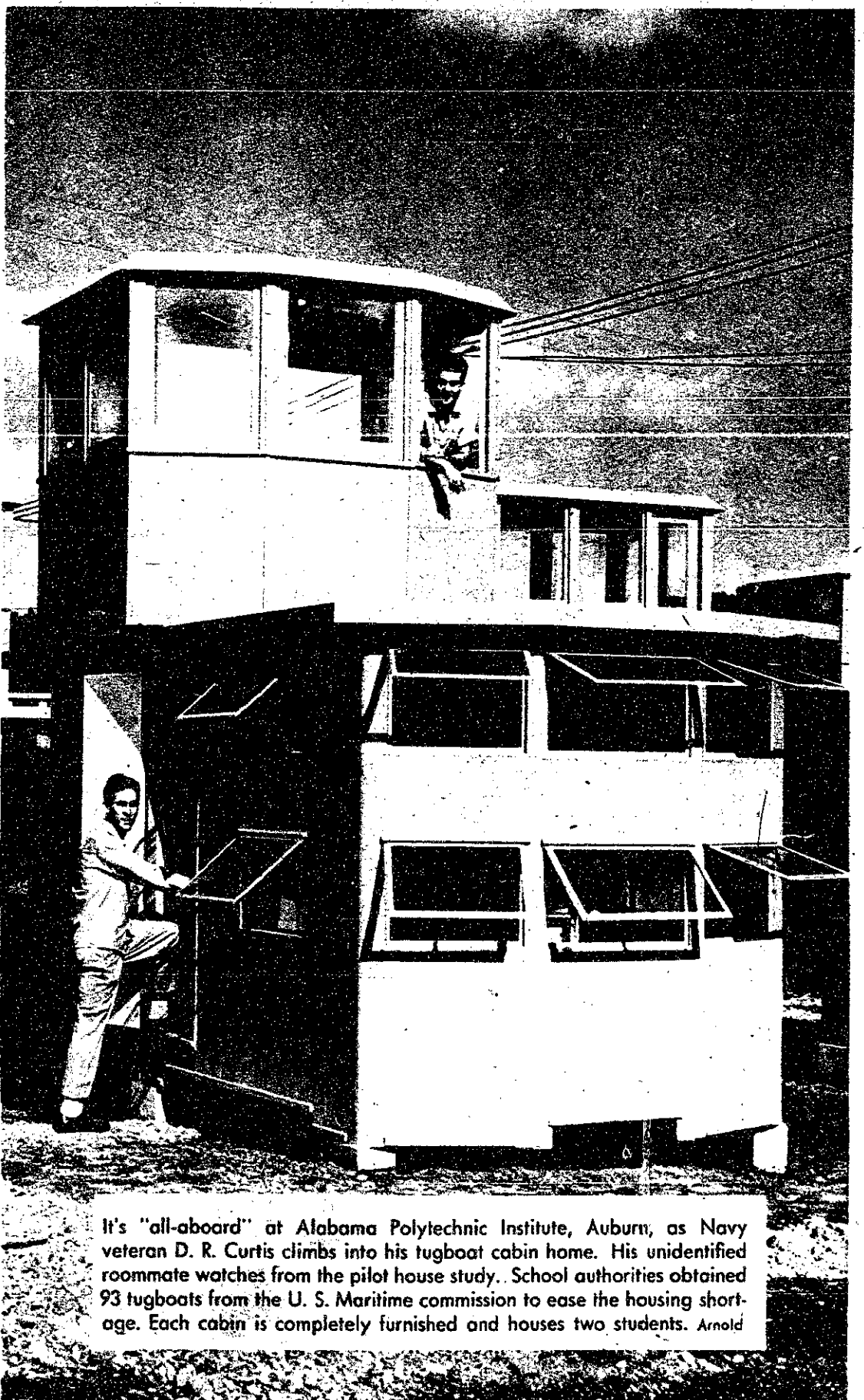
Rigid Flakes Fell on Colorado

→
The Man Winter provided the answer to an editor's prayer when he dumped the gun on the rest of the country and dropped 29 inches of snow on Colorado. Here Billie Holliman, Phyllis Annack, Marjorie Crow and Lou Ann Moore of Colorado Woman's College enjoy the other side of "Springtime in the Rockies."



← Dragon vs. Dagwood ...

George Hill, Drexel footballer, snaps at novel "dragon sandwich" in the Philadelphia school's new grill. Specializing in triple-deck sandwiches, the grill is the answer to the eating problem on the crowded campus.



It's "all-aboard" at Alabama Polytechnic Institute, Auburn, as Navy veteran D. R. Curtis climbs into his tugboat cabin home. His unidentified roommate watches from the pilot house study. School authorities obtained 93 tugboats from the U. S. Maritime commission to ease the housing shortage. Each cabin is completely furnished and houses two students. Arnold



Marilyn Nordmark, South Dakota State College's Hobo-Day queen, didn't need quite all of the yardsticks to measure the winning beard at the school's homecoming celebration. Complete with derby and cane, this "old man" was judged to have won by a hair.
Photo by Karolevitz



"What this country needs is more horse sense and less horse meat," read the citation presented to movie equine star Gallant Bess, the horse with the human mind. J. Alden Cheever, president of Northeastern university's student council, is shown making the presentation after Bess had made a donation toward the new student center.

Brothers and More Brothers



Top: Chandler Stevens, left, after five years in the army, has moments of doubt distinguishing among his triplet brothers, Harold, Herbert and Howard. All are freshmen at the University of Missouri. Below: Paul and John White, regulars on the University of Michigan football team, have also added their share to the confusion on college campuses when it comes to reporting for action on the gridiron. Paul was a regular halfback for Michigan in 1942 and John a regular end on the opposing Ohio State team. They're from River Rouge, Mich.



Jack Bailey, radio network emcee, feared to tread where college men have been walking for many years when he was faced with the task of picking a "Queen for a Day." As a result, he donned the crown and divided the gifts among Anne Stubbs, Cornell; Betty Newbold, Duke; Eleanor Hudgins, Northwestern, and Lois Coleman, University of Virginia.

PHOTOS WANTED

Send your school photographs to Collegiate Digest! It's easy—just pack your pictures in cardboard to prevent bending and send them to Collegiate Digest, 18 Journalism Building, University of Minnesota, Minneapolis 14, Minn.

Collegiate Digest will pay three dollars for each picture used. Pictures will be returned only if postage and a self-addressed envelope are included.

Be sure they are glossy prints, black and white. Pictures must be at least 3x5 inches.

Include complete identification of individuals and the school they represent.



Coping with 35 redheads is the problem of Bob Jensen, University of Wisconsin student who recently organized the League of Redheaded Women. First action was a protest to Rita Hayworth because of her conversion to topaze blonde. She said it was temporary.

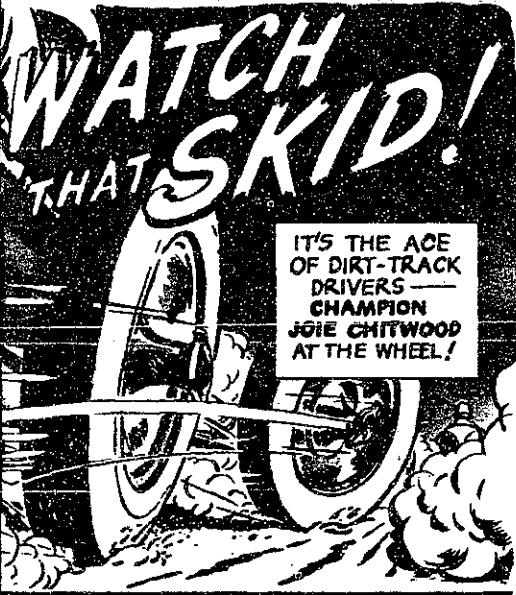


Campus Pictures Wanted

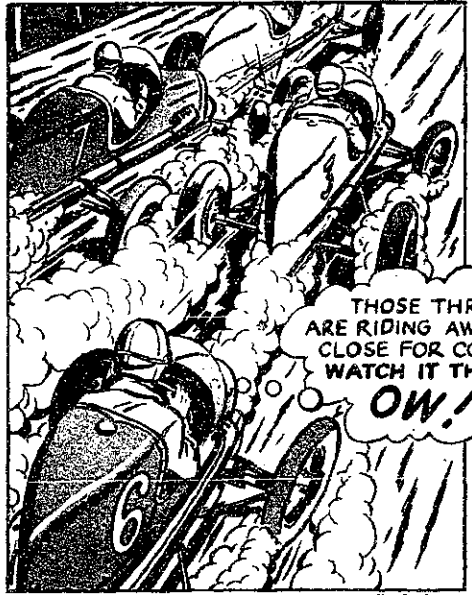
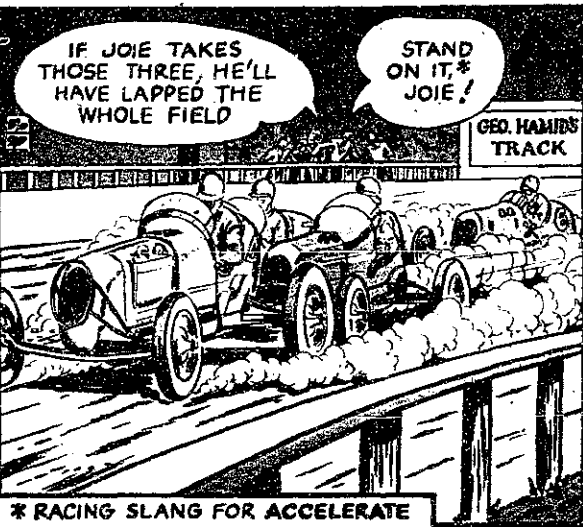
Collegiate Digest is looking for pictures of college interest. Here is an opportunity for you to get recognition for your school and money for yourself. Collegiate Digest will pay \$3.00 for each picture published. Send one or a series to Collegiate Digest, 18 Journalism Bldg., University of Minnesota, Minneapolis 14, Minnesota. Be sure to include complete information and identification. No picture will be returned unless accompanied by postage.

Veterans from Chicago colleges gathered outside Mundelein college during the Institute for Study of the United Nations charter. Coeds are from Mundelein. Men from Loyola.

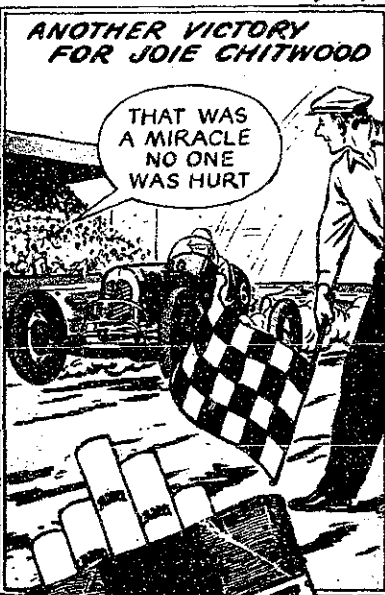
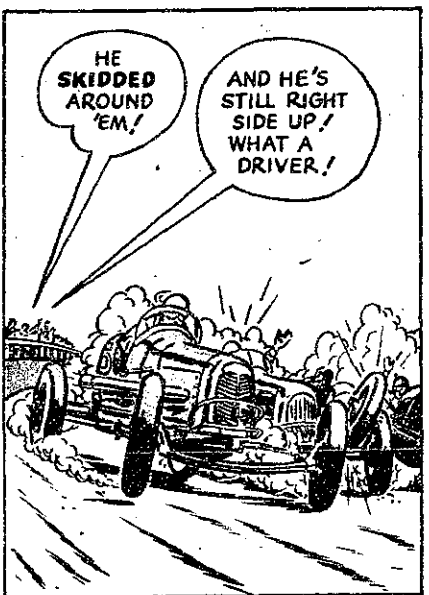
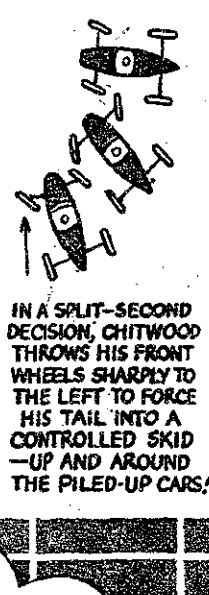
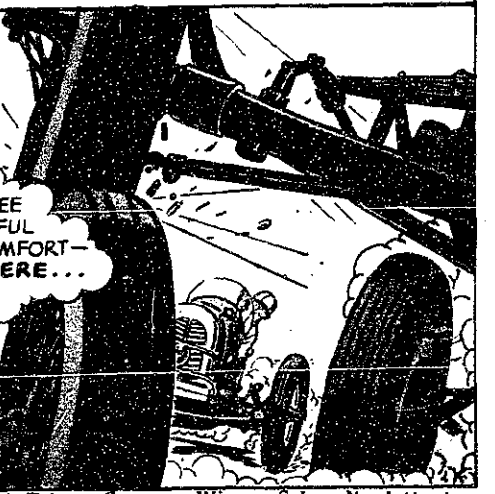
One World
 Born a world apart, these two girls now study at Georgia State College for Women, Milledgeville. Marianna Singer, left, fled from Germany during the war. She is shown with Marion Barber, GSCW year-book editor. Miss Singer was sent to the college by the YWCA.



LEADING THE FIELD WITH ONLY 2 LAPS TO GO, JOIE CHITWOOD NO.6 TRIES TO LAP 3 CARS...



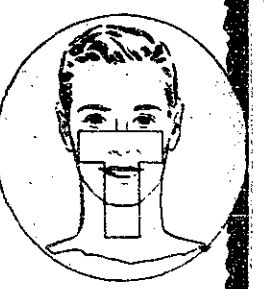
A WICKED SKID—A TANGLED WHEEL—AND 3 CARS JAM UP ON THE TURN IN FRONT OF THE ONRUSHING CHITWOOD. AT 125 M.P.H. HE CAN'T TURN OUT TO CLEAR THEM!

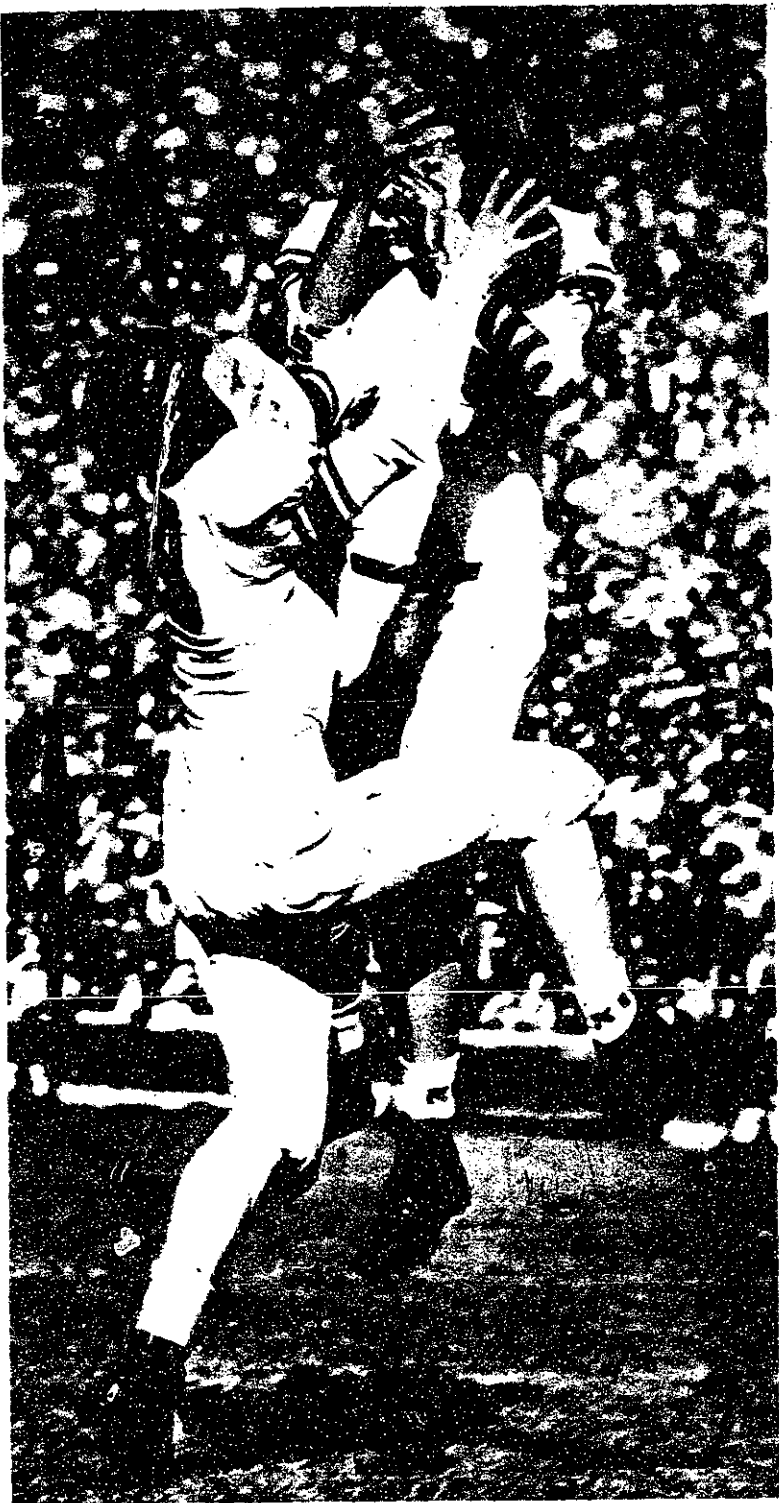


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Trying to intercept a Northwestern pass, these two Michigan gridders nullified each other's attempt. Hunt goes high in the air while Birson climbs after the ball. The game ended in a tie, 14-14.

Acme Photo



Student Forum 'On the Air'

Thinking of college students is aired by students of Johns Hopkins university each week on the Student Forum. Elliot Coleman, chairman of the English writing department, is shown at the head of the table in his role of moderator. Left to right are James Langrall, Roland English, Coleman, Stanley Grill, Edward Padgett and Chipman Cunningham.



Elizabeth Pate, Georgia State Woman's College (Valdosta) senior, does not let her nose decide her future. Despite a dislike for chemistry odors, she likes the subject.



One event as part of a field trip by college theater students from Indiana State, Terre Haute, was this backstage visit in New York with Judy Holiday of the play "Born Yesterday."

She May Be . . .

A College Student



Some day this young lady may be a college student. Her chances—the chances of hundreds of children—depend on the success of the "March of Dimes" campaign, January 15-30. Her only plea, "Help me walk again."

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