



Military Ball To Be Held Fri. In Morss Hall

Annual Scabbard and Blade Pinning Set To Climax Evening

Invitations are being sent by members of the Scabbard and Blade society to members of the Institute for their annual ball to be held this Friday night, January 8, in Morss Hall from 9 to 1. This dance is to be held formal, as in the past, except for members of the Society, who will be dressed in their uniforms.

Unlike previous balls, there will be no freshman platoon to give a demonstration as in other years. However, the principal event of the evening will still be the presentation of the pins to the newly initiated members. This ceremony will be carried on as in the past.

The pins which, are blue and red service bars with five stars on them, are given to the new men, who hand them to their dates. The dates then pin the bars on the initiates, and kiss them.

This dance is to be the last held in Morss Hall for the duration, according to a ruling made last month by the Walker Dining Service, and the Walker Memorial Committee. All future large dances held in Walker must be held in the gym.

Playing for the dance will be Chappie Arnold's band. Morss Hall will be decorated with American flags and insignia of the various units represented at the Institute. For the first time the Air Corps will be represented. Most of the officers of the Military Science Department will act as chaperones for the dance.

Pritchett Hall Closed To Students

Morss Hall Now Opens For Lunch At 11 A.M.

Effective immediately meals will no longer be served to staff members and students of the Institute in Pritchett Hall of Walker Memorial, it was announced last night by Mr. Albert W. Bridges, Director of the Walker Memorial Dining Service. This termination of service, caused by wartime conditions, not only brings to a conclusion the cafeteria service in Pritchett, but also cancels any social functions which had been scheduled to be held there, Mr. Bridges explained.

This move brings to an end Pritchett Hall's three months service as an auxiliary cafeteria during rush hours. Open only to staff and students, lunch had been served there between the hours of 11 A.M. and 2:15 P.M. since early in the present term. Coincident with the announcement of Pritchett's closing, was a statement from Mr. Bridges that Morss Hall will henceforth serve lunch starting at 11 A.M. This decision advances the opening hour forty minutes.

"Ski Patrol" To Be Shown In Boston On Wednesday

"Ski Patrol," a color movie of U. S. Mountain Troops in action, will be shown at 8:15 on Wednesday evening, January 6, at the Cadet Armory, 105 Arlington Street, Boston. Tickets are 50c., and are available at the Asa C. Osborn Co. and the M. T. Bird Co. A limited supply will be available at the door. The picture shows America's ace skiers in action, training in the tactics of mountain warfare at Camp Hale, Colorado. The commentator is Miss Debora Bankart, well known New England skier.

Selective Service Commission Announces Vital Occupations

The Selective Service System recently issued a new Occupational Bulletin, effective until July 1, 1943, covering scientific and specialized personnel, which includes students in certain engineering and scientific fields. Under this directive, Sophomores as well as Juniors and Seniors in a number of engineering and scientific fields may be considered by their Draft Boards for deferment.

Graduate students who are engaged in scientific research certified by a recognized Federal Agency or who are graduate assistants in classroom or laboratory instruction may also be considered for deferment as previously provided for in an earlier directive.

This directive applies only to those students who are not members of the armed services.

The new bulletin, which includes some changes in engineering and specialized fields classified as critical occupations, amends and supercedes Occupational Bulletin No. 10 of June 18, 1942.

Students desiring further information on this new directive are instructed to go to the Office of Selective Service Information, Room 7-211, and see Mr. Frederic H. Keyes.

The text of the new occupational bulletin follows:

1. Persons qualified

There are certain persons trained, qualified, or skilled in scientific and specialized fields who, if engaged in the practice of their respective professions, are in a position to perform vital service in activities essential to war production and to the support of the war effort.

2. Critical occupations

The War Manpower Commission has certified that in certain scientific and specialized fields there are critical occupations, which, for the proper discharge of the duties involved, require a high degree of training, qualification, or skill. Attached is a list of "critical occupations" in scientific and specialized fields, divided into two groups: (1) Engineering Fields and (2) Other Scientific Fields.

3. Consideration of occupational classification

The War Manpower Commission has certified that there are serious shortages of persons trained, qualified, or skilled to engage in these critical occupations. Accordingly, careful consideration for occupational classification should be

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\$500 To Be Given For Best Essay On Constitution

Percival Wood Clement Prize Offered To Tech Juniors And Seniors

Junior and Senior students of Technology are eligible to compete for the Percival Wood Clement prize of \$500 to be given to the writer of the best thesis in support of the principles of the Constitution and the Bill of Rights.

This prize, established by the will of the late Governor Percival Wood Clement of Rutland, Vermont, is to be awarded according to the provisions of the will by a board of judges consisting of the presidents of the University of Vermont, Yale University and Williams College.

Essays should not be over 3,000 words in length and competitors are advised to select some portion of the entire field which they may treat adequately within the imposed limit.

Each essay must be neatly typewritten upon one side of 8 1/2 x 11 paper, and the sheets should not be folded. The outside page must contain only the title, the date, and an assumed name, and each essay must be accompanied by a sealed envelope containing on its outside the title and assumed name, and within the real name, college, and home address of the writer. It is also necessary to enclose a statement from the registrar of his college that he is duly registered in the Junior or Senior class of one of its undergraduate curricula leading to a bachelor's degree.

All essays must be submitted to the chairman of the committee, President John S. Mills, University of Vermont, Burlington, Vermont, not later than April 1, 1943.

Also participating in the contest are to be Juniors and Seniors from the following New England colleges: Amherst, Bates, Brown (including Pembroke College), Bowdoin, Wesleyan, Tufts (including Jackson College), Colby, Dartmouth, Middlebury, Harvard (including Radcliffe College), Trinity, University of Vermont, Yale, Williams, Boston University, Norwich University, University of Maine.

War Educational Program To Begin

Institute Takes Part In Training Effort

Cooperating in the nation-wide program of the United States Office of Education, the Institute will offer many courses covering technical fields beginning next term. These courses are especially designed to equip engineers with special training and women with technical training for the National War Industries.

Although the classes will be open generally to people of collegiate standing, requirements vary according to the intensity of the course, some even requiring degrees from a recognized college. These courses are dependent upon the demand for such training and the approval of the Engineering Science and Management War Training authorities.

Scheduled in full-time day and part-time evening programs, the courses are to be given to students without charge. Included in the list are classes in engineering drawing, various phases of physics, industrial management, map making, and other technical subjects, starting at various times from January 4th to March 15th.

Those interested in these courses may obtain a booklet describing the courses and other information at the War Training Bureau, Room 7-102.

Future Students' Names Requested By T.C.A.

The T.C.A. is currently sending extra copies of the 1942 freshman handbook to prospective students for next year. Anyone who knows of students who may come to Technology next year is asked to leave the names of these students at the T.C.A. office in the basement of Walker Memorial in order that copies may be sent to them.

Balance Of Technique Price May Now Be Paid

Those persons who bought a \$1.50 pledge for the 1943 Technique can pay the balance of the purchase price today and tomorrow, January 5 and 6 in the Main Lobby of Building 10. The balance which is \$3.50, may also be paid when the 1943 Technique comes out.

Senior Week Plans Revealed

Option Redemptions To Start Next Week

Redemption of options on tickets to Senior Week will start next Monday, Robert B. Rumsey, '43, chairman of the Senior Week Committee stated last night. He also made known the complete list of events planned for Senior Week, the graduating class's last fling at social life before leaving the Institute.

Rumsey said that final arrangements for the Senior Ball have not yet been made, and that, provided all arrangements have been completed, the name of the band and the price of the option redemptions will be known by Friday.

According to the schedule of events, Senior Week will begin Thursday, January 28, with the stag banquet. The location of this has not as yet been settled. An informal party is planned for Friday night, with Class Day scheduled for Saturday afternoon. Following the events of Class Day will be a Tea Dance, late in the afternoon. The Alumni Banquet will be held Saturday evening, January 30, at the Hotel Statler.

Baccalaureate

With Paul V. McNutt, recently elected head of the War Manpower Commission delivering the address, the Baccalaureate service for the Class of 1943 will be held Sunday afternoon, January 31, in Symphony Hall in Boston. As director of the nation's manpower, with executive authority for control over the wartime use of the skills of the nation's technically trained men, Mr. McNutt is one of the most important cogs in the country's war program, and his speech is being eagerly looked forward to by the Senior Class.

The climax of the week's festivities will come Monday morning, February 1, as the members of the Class of 1943 receive their diplomas at Symphony Hall a full four months ahead of schedule, as Technology's second class to graduate since the United States' entry into the war.

Clarence D. Howe, Canadian
(Continued on Page 4)

Lowell Institute Sponsors Lecture

A series of eight free public lectures are to be given by Professor Jacques Barzun, Ph.D., of the Lowell Institute. The lecture series, entitled Romanticism and the Modern Ego, will begin Monday, January 11 and continue on following Mondays and Thursdays until Thursday, February 4, when the last one is to be given. Professor Barzun is an Assistant Professor of History at Columbia University.

Lectures are to be given beginning at 5:00 P.M. in the Lecture Hall of the Boston Public Library at Copley Square. Tickets may be secured, free of charge, by sending a self-addressed, stamped envelope to the Curator of the Lowell Institute, Boston Public Library, Copley Square, Boston.

E R C Students May Now Apply For Air Force

Flight or Meteorology Training Open to Sophs And Frosh Unassigned

There are several specific assignments open to members of the Institute who are in the Army Enlisted Reserve Corps, unassigned, it was announced yesterday by Professor John D. Mitsch, armed services representative at the Institute. Those men may apply for assignments to Air Force flying, to meteorology, or to pre-meteorology training.

Any man in the Enlisted Reserve Corps, unassigned, who wishes, may apply as an aviation cadet, air crew, and if he passes the examination he will be transferred to Air Corps Reserve. Those interested should secure a preliminary application in Room 1-288.

According to Professor Mitsch, the meteorology programs appear to offer an excellent opportunity for Technology men. Through arrangements with the Army, it is highly probable, according to Professor Mitsch, that Sophomores at the Institute will be admitted to the A course in meteorology, despite the requirement of two years of college set up for that course. Arrangements are also being made by which it is hoped that freshmen at the Institute will be admitted to the B course in Pre-Meteorology. The next course in A meteorology will begin on June 21, so it is assumed by the office of the armed service representative that men who are accepted for the course will be permitted to continue their courses at the Institute for a least part of the next term. The next B course will begin on March 1.

Enlistment in the meteorology courses is also open to civilians, and any one interested can apply for information in Room 1-288.

Catholic Club To Hold Meeting

Constitution Changes Subject Of Discussion

The M.I.T. Catholic Club is to hold a regular weekly meeting at 5:00 P.M. this Wednesday, in Room 10-275. Some very important business is to be discussed, according to Joseph F. Boyce, '43, and refreshments will be served afterwards.

The business of the meeting will include an announcement of the list of those members of the club who will be eligible to hold office in the club during the coming year. Elections of the new officers of the club will be held the following week, on Wednesday, January 13. Also to be discussed at this week's meeting are proposed amendments to the constitution of the organization, and the financial statement for the past year which is to be presented by the treasurer, John A. White '44.

Pictures Of German Plane Are To Be Shown Today

Under the joint sponsorship of the Aeronautical Engineering Society and the Institute of Aeronautical Sciences, a two-reel motion picture, in color, is to be shown at 5:00 P.M. this afternoon in Room 1-390.

The movie is on the German Messerschmitt 110, and is released by the Vultee Aircraft Corporation. John Chamberlain, '44, programs director of the I.A.S., and treasurer of the A.E.S., said that admission is to be gratis to all persons interested in seeing the film.

The Tech

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Tuesday, January 5, 1943

No. 1

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VOLUME LXIII BOWS IN

Nineteen Hundred and Forty-Two is history and by the same token Volume LXII of The Tech, too, becomes history. Volume LXIII begins today where others have left off and begins under very auspicious circumstances. The white blanket of snow which covered both good and evil with ample benevolence augured well, offering as it did a proverbial clean slate.

Volume LXIII comes into being at a time when new hope like the new snow appears on the horizon. From Leningrad in the North to Mozdok in the Caucasus, our allies, the valiant Red Army soldiers are pressing home as many as five offensives against Schicklegruber's Nazi armies. General MacArthur reports that all Japanese resistance in the Buna area of New Guinea has been eliminated. About 800 miles eastward on Guadalcanal our troops announce further advances against more sons of Heaven. In Africa, General Eisenhower and General Montgomery maneuver to squeeze the Germans out of Tunisia. In short ours is the initiative and we would not be unjustified in declaring that things are now at the beginning of the end.

Volume LXIII emerges at a time when new hope for a better world after the hostilities is being crystallized for all to examine. Following the bright aegis of Vice-President Wallace liberals the country over have recently reassured the country that Democracy is no idealist's hallucination. Leaders like Wallace, ex-Senator Norris, Senator Wagner, and James Patton recently presented a program they are ready to fight for against all forces of reaction. It is a program for Post-War Security.

Volume LXIII makes its debut at a breathless period in the lives of collegiate undergraduates. The joint Army and Navy plans for the utilization of the nation's colleges for purposes of training had just been revealed to a nervous and expectant student body. The Selective Service scheme for those unaffected by the reserve programs has been released today. The steps to be taken by the Institute are the major questions now and when released will serve to complete the picture.

Volume LXIII comes in just after the new year to follow in the footsteps of its illustrious predecessors. As in the past, The Tech will endeavor to remain the journal of the Institute students and will sincerely try to present all the news of interest for Techmen. To further this policy of complete coverage, The Tech will cooperate fully with the various activities representing the many interests of the undergraduates.

In its Editorial columns, Volume LXIII will interpret the news and integrate student opinion on subjects of Institute concern. Nevertheless, world wide events cannot be ignored especially at present, and certainly, therefore, editorial comment will be in order. The editorial policy of The Tech will not be determined exclusively by the Managing Board of the paper. Since The Tech is the official undergraduate publication of the Institute it follows that its editorial policy should be representative of that Institute student body. Hence, all editorial opinions are subject to constructive disputation, for without such discussion an editorial loses its potency.

Controversial subjects lend themselves easily to strong words and stronger feelings with the subsequent production of ill-will and resentment. We shall try to formulate opinions with due consideration to all who may be affected but should we in our enthusiasm overstep the boundary, we ask your indulgence and pardon.

Volume LXIII looks forward to happier days to come, but the way will not be easy: America will win! As a great patriot said twenty-four years ago, "God willing, she cannot fail."

The Reader Speaks

955 Memorial Drive,
 Cambridge, Mass.
 Dec. 16, '42.

Editor, The Tech:

I doubt if you Tech men would accept the congratulations of a Harvard man, but I wish to extend them in hopes that you will give credit where credit is due. I refer to the contribution made to the war effort by the boys in the DKE fraternity the other day. In case you did not notice the articles in the Boston papers this is the story as near as I can find out. Rather than have their freshmen perform their traditional stunts in conspicuous spots in downtown Boston they revised the initiation and combined it with a grand gesture for the war effort. They decked out the initiates in typical costumes of those past historic days of George Washington, Dan Boone, and many others, and assembled them by Jordan Marsh's on Washington Street at noon Tuesday. Then with the upperclassmen doing the actual selling of the war stamps, they sold close to 400 dollars worth of stamps in an hour and a half. It is a fine tribute to Tech to have boys who have the ingenuity and skill to carry out such an enterprise and they should be congratulated by the whole school. Can people still wonder if the college men are behind the war a hundred percent after such a demonstration?

Up until now I felt that Tech deserved respect only for the ability that its graduates have in pushing down, but merely admitting that your students in the DKE fraternity and in the school are doing a grand job in carrying out a worthy course.

Ed. Note: The above letter was unsigned.

Sophs Eligible For Deferment Under New Ruling

(Continued from Page 1)

given to all persons trained, qualified, or skilled in these critical occupations and engaged in activities necessary to war production or essential to the support of the war effort, and to persons in training or preparation therefor.

4. Deferment of students in training and preparation

A registrant who is in training and preparation for one of these scientific and specialized fields may be considered for occupational classification as follows:

(a) A registrant in training and preparation in one of the Engineering Fields may be considered for occupational classification after completion of his first academic year in a recognized university or college, and thereafter, if he is a full-time student in good standing, if he continues to maintain good standing in such course of study, and if it is certified by the institution that he is competent and that he gives promise of successful completion of such course of study and acquiring the necessary degree of training, qualification, or skill

(b) A registrant in training and preparation in one of the Other Specialized Fields may be considered for occupational classification after he has reached the point in such course of study in a recognized university or college, and thereafter, where there remains not more than two academic years for him to complete such course of scientific and specialized study, if he is a full-time student in good standing, if he continues to maintain good standing in such course of study, and if it is certified by the institution that he is competent and that he gives promise of successful completion of such course of study and acquiring the necessary

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Science of Life Will Receive Great Advance at Technology

When many technical schools, and particularly this Institute embarked upon a program of compulsory chemistry, physics, and mathematics, they were breaking away from a conventional practice of liberal arts colleges and establishing a profound trend. It would be ridiculous, however, to presume that Technology thereby intended to "sterilize" the development of literature, of the social sciences, or of any of the humanities. And yet it insists on the doctrine of a trained mind, of a mind capable of analyzing any problem into its components, of a mind which clearly visualizes cause and effect, not only for the problems of engineering and science but for the problems met in all phases of daily living.

In one extreme, such a doctrine is becoming the basis of progress in the biological sciences, the science of life. Man has tread into the realm of nature with considerable trepidity, so many are the mysteries, the unknown factors, the hidden causes. Once lost in the maze of the myriad of forms and functions, the manifestations of a vital living force, it is difficult to become extricated. Few people who wanted to retain the conventional outlook on life dared pick up the challenge which the field of biology presents to every scientist.

And yet this challenge is day by day approaching the realm of chemistry, and physics, and mathematics. What has appeared to be an impossible task of scientific analysis and evaluation has been reduced, after a century and a half of trial and error, to many, if not all, of the fundamental principles of the three subjects which most every Institute freshman takes.

The engineers may wake up some morning to find the biologists, the "lost souls of science," right out in their back yard employing the instruments and appliances of elementary science engineering with the same facility and precision that for instance, bridge-builders are accustomed to. It would seem that the critical necessity of a knowledge of chemistry, physics, and mathematics in the field of biology would alone justify the requirement for such knowledge in practically any field, and thereby preclude any antagonism to the compulsory aspect of the Institute's policy.

There is nothing "queer" or difficult about the science of biology that cannot be traced directly to the incapacity of man's mind in embracing a vast range of facts, functions, or his inability to perfect instruments and apparatus which make possible the perception of things his native senses fall short of perceiving. And both of these prerequisites are best fulfilled at any technical school, if not at our own Institute itself.

The significance becomes clear when it is remembered that liberal arts colleges once held the monopoly on biological advance and flaunted their progress in the faces of the "cold-hearted, calculating" engineers. It becomes clearer when it is remembered that, until lately, medical schools, for instance, required an overdose of the humanities as prerequisites to the study of medicine and consequently frowned upon anyone firmly versed in physics and mathematics. The significance becomes pointed when, according to records, all Technology pre-medical students not only completed their medical careers, but usually stood at the head of their classes.

If Technology is embracing the sciences of engineering biology, of food technology and nutritional biochemistry, of even pure biology, is it subsequently to contribute to the

progress of psychology and the social sciences? Perhaps the meaning of this general trend will appear clearer if we go back into the brief history of the development of the sciences.

It all began with geometry. The minds of men love the simplicity of mathematical conciseness. In it are found no variables. Gradually the more intelligent minds grasped at those sciences with slight variabilities, such as physics and mechanics. As methods of investigation improved, if somewhat crudely, a few of the fundamental principles of chemistry became clear. But as facts were accumulated, their surface appearance precluded any observation of the common functional principles underlying all the developing sciences. Hence, on appearance alone, science became branched, branched and walled off, to such an extent that, up till recent years, "one science had nothing to do with another." This fallacy, in other words, must not become confused with any significant differences in any of the several sciences.

Yet minds have eternally been bewildered by the stupendous jungle of biological phenomenon, of cells, of humors, of consciousness, of germs, of disease. And all through this period, while the physical and, later, the chemical sciences made progress in the hands of several men, the world but fumbled and toyed with the mystery of life. It had only a qualitative meaning. A good bedside manner made a good physician. Many gods, and finally One, were called in to explain it all.

But slowly, as the gross appearance of the primary physical and chemical sciences dissolved away, the functions and principles common to them both began to emerge. Combined sciences such as physical chemistry and atomic physics made their appearance. Large doses of calculus were needed everywhere, and all mathematics became nothing but logic, the expression of a clear mind, the only medium for scientific interpretation, the language of science.

Greater mergers of sciences became evident in the tremendous progress of organic chemistry, through which biology and chemistry joined hands. The qualitative aspect of biology lost ground, and its chemical aspect broadened, at the same time when the qualitative aspect of chemistry was broken down, and its physical aspect became significant. Is biology thereby to eventually reduce itself to physics?

With the advent of the electron microscope, the X-ray, bio-physics, and such physical appliances and terms, the answers would seem affirmative. The new head of the Department of Biology and Engineering, Dr. Francis O. Schmitt, while considered a foremost biologist, is essentially a bio-physicist, in the light of the nature of his work. He interprets much of his work through the statistician's curve, achieves the bulk of his advance in his reliance on the pure physicist. The field of biology still retains its myriad of variables, and the evidence is still being pieced together. But it cannot go on without physical and chemical apparatus of the highest quality. It is only logical that the quality and faculty of instruments have played one of the two major parts in scientific advance. The other is human intelligence, which however, increases, if at all, only slowly.

And so, in retrospect, the sciences became sciences in an order dictated by the ratio of the constancy of the component factors to their variability. And each again became reduced to a more fundamental reality, invading the premise of physics and mathematics. After a long and distraught history, the science of life was finally introduced at the Institute through the farsighted leadership of Professor Sedgwick, some forty years ago.

(Continued on Page 4)

Beaver Cagemen Practice For Games Against B.U. Here, Tomorrow Night

Frosh Prime To Beat B. U., Who Gave Them Season's Only Defeat

The Beaver varsity and freshman basketball teams returned from the holidays and began practice last night for their games with B.U. which start at 7:00 P.M. tomorrow night in the gym here. The freshmen will play the Terrier junior varsity, since B.U. allows freshmen on the varsity team. The frosh lost their first game of the year when they played B.U. December 15th, so there ought to be plenty of game when they meet tomorrow night.

The varsity lost to B.U. by the score 53 to 37 on December 15th before Christmas vacations and will be practicing hard again tonight to get in shape for the game tomorrow. Del Valle, who injured his ankle before vacations, was practicing last night.

The freshman schedule for January is:

Wednesday, Jan. 6—B.U. Junior Varsity, here.

Friday, Jan. 8—Tufts, here.

Wednesday, Jan. 13—Brown, here.

Friday, Jan. 15—Coast Guard, here.

Tuesday, Jan. 19—Dean Academy, here

The Varsity plays the following games:

Wednesday, Jan. 6—B.U., here.

Friday, Jan. 8—Tufts, here.

Wednesday, Jan. 13—Brown, here.

Friday, Jan. 15—Coast Guard, here.

Wednesday, Jan. 20—Williams, here.

The January schedule gives Tech students every opportunity to see their teams in action since all the games are to be played in Walker Memorial gym here and on Wednesday and Friday nights instead of the Tuesday and Thursday nights as they were played during December.

SPORTS CALENDAR

Tuesday, January 5
Hockey vs. B.U.—Boston Arena.

Wednesday, January 6
Varsity and Freshman Basketball vs. B.U.

Tech Rifle Team Faces Active Week Matches With Wentworth, Yale, West Point Carded

This weekend the Technology riflemen will shoot two postal matches with the Yale and Wentworth Institute teams according to Bob Wood, manager of the team. Also this weekend on January 9 the team will journey to West Point to face the U. S. Military Academy in a shoulder to shoulder match. The West Pointers were last years champions and have lost only one man of last year's outfit. In all of these matches all three positions will be used, that is firing from prone, standing and kneeling positions.

The lineup for the trip to West Point will be: Wiesenthal (Capt.), Wood (Manager), Woodworth, Smock, Shoffner, Dundon, Corwin, Rosar, and Amther. In the postal matches Terry will also compete for the Beavers while Quisenberry and Cantor will serve as alternates.

A non-league match is scheduled against New York University the weekend after next at New York City while on January 30 the riflemen will meet the Naval Academy at Annapolis. Also a tentative match has been arranged with McGill University for February 20 to be held at Montreal, Canada. During the spring season the team is scheduled to meet Tufts, Northeastern, Lowell Institute, New Hampshire, Vermont, Norwich, Harvard, Worcester Polytechnic Institute, Brown, Rhode Island State College, Connecticut State College, and the Coast Guard Academy in the annual New England Intercollegiate rifle matches.

Outing Club Skis At Stowe

Large Group Enjoys Vacation on Hills

In order to promote less expensive skiing, as well as to get as many Technology men skiing together as possible, the Outing Club sponsored a ski trip to Stowe, Vermont, during Christmas vacation. About 10 men left for Stowe immediately after school, and were joined after Christmas by eight others.

Four of the men cooked for themselves, and lived in Stone Hut atop Mount Mansfield, while the others lived at the Ranch Camp, and the Green Mountain Inn. The Ranch Camp is an abandoned logging camp which has been turned into a place for skiers to stay.

Novel Celebration

New Year's Eve for the skiers was quite different from what any of them had experienced. The men living on the top of the Mountain dined on a quarter of venison, while those who stayed at the Ranch Camp had to ski one and one-half miles over blazed trails to get to the road to catch a taxi into Stowe to celebrate, and while celebrating had to hold in mind the return trip.

Some of the people on the trip were new skiers, while many were members of last year's ski team. The ski team spent much of the time during the trip practicing on the various slopes of Mount Mansfield under the guidance of Jim Klein, who is this year's captain. Hans Aschaffenburg, last year's captain, was also along on the trip, and was leader of the group which lived on top of the mountain.

Good Conditions

While the ski team practiced on the famous Nose Dive of Mount Mansfield, the other members of the group stuck mostly to the eight other trails on the Mountain. The weather favored good snow all during the trip, in spite of one day during which it drizzled. The ice caused by this was quickly covered by about five inches of powder snow during the next night.

Although with exams approaching it will not be possible for the Outing club to plan anything larger than ordinary weekend ski trips, they have already made reservations to have another group go to Stowe during the holiday immediately following exams.

Swimmers Defeat Connecticut Team

The varsity swimming team downed Connecticut University in the third meet of the season by the score of 50-25. This victory came as a relief to the team which was downed by Harvard in a previous meet. However they now have a record of 2 victories in three starts since they triumphed in the opener over R.P.I. Quite a bit of confusion was caused by the 20 yard pool at Connecticut, as the Technology mermen were used to swimming their own 25 yard pool.

In the final event, the 400 yard free style relay, the first swimmer forgot that the 100 yards which he had to swim was divided into five rather than four laps, so he stopped at the end of four. The Connecticut swimmer by the end of the first 100 yards thus had almost a half lap lead on the Tech swimmers. This lead however was overcome by the three following men, and the Beaver mermen finally emerged victorious in the event.

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Runners Train For Indoor Meet

Relay Team Will Go To Meet In New York

The Beaver runners turned out yesterday for their first official practice session of the new year and began work in preparation for the indoor winter season. The biggest meet is on February 6 in New York City when the Melrose games will be held on the indoor track in Madison Square Garden. Coach Oscar Hedlund is planning to send a relay team to compete in that event. Most of the large colleges and Universities from New England and the eastern states will be represented as well and the usual number of teams from the middle west. The Melrose games are the biggest of the indoor events held during the winter season and usually include stars of national and international fame. It was at that meet that Cornelius Warmerdaum topped 15 feet for the second time last year. It is expected that the number of foreign stars will be considerably smaller this year in view of the war.

With Sid Hall, Larry Stewart, and Bob Meny returning from last year's squad competition promises to be keen for the remaining spot on the team. Sophomores Gardner Bent, Arthur Bryant, and Dave Bailey as well as Senior Ed Czar are those competing for the coveted position. Last year's team broke several records and took a fourth among sixteen teams at the I.C.A.A. meet at New York City after surviving the qualifying rounds. This year's team looks equally as good and with a good fourth man, may do better than last year's aggregation.

The cindermen have to practice under rather poor conditions as there have been no indoor facilities for practice since the removal of the hangar gym. Although the track was clear yesterday, any inclement weather forces complete cancellation of practice and attendant interruption of the training program.

Second big event of the indoor winter track season will be the B.A.A. games in which varsity and freshman teams from Tech will compete according to Coach Hedlund. This meet will be held in the Boston Garden on February 13 and will include major college teams from New England and the middle Atlantic states. Some midwestern athletes remain over from the Melrose games the week previous in order to compete in the games here at Boston, which have been held for over fifty years.

The Beavers will be represented by two one-mile relay teams since both a freshman and varsity squad will be represented as well as a two-mile varsity relay team. Men will also be entered in the high jump and in the pole vault if sufficient practice can be had in pole vaulting with the facilities available. Among those competing for post-

(Continued on Page 4)

Cornell Eliminates Tech In Close Match As Kaneb, Willard, And White Star

While the rest of the institute was still trying to match Christmas ties with khaki uniforms, the hockey team was having a field day in the Packer Hockey Tournament. The big event, held at Lake Placid, lasted from December 26 to the 29th. After losing the first game to Cornell in a 6-5 overtime game, the Tech men came back with a smashing victory over Middlebury. The third game was lost to Williams 4 to 1.

Middlebury had two goals to the one Willard poked in for Tech going into the last five minutes of play. Fred Kaneb broke through the Middlebury rear guard to tally the tying marker. As the crowd went wild, Kaneb found a hole in the Middlebury defense and scored to put Tech ahead. With seconds remaining, all Tech had to do was freeze the puck until time ran out. But Kaneb carried the puck up the ice and scored for the third time to clinch the victory for M.I.T. Three goals in five minutes. Tied, won, and clinched the victory. That's one for the books.

The lineup—

White center Noreen
Merrow l.w. Gillen
Willard r.w. Burdakin
Kaneb l.d. Verrochi
Seifert r.d. Cook
Tashjian g. Mason
Coach—George Owen

In the Cornell game, Kaneb scored two goals, Johnnie White two, and Bob Willard one. Willard scored the lone goal for Tech in the Williams game.

Colgate won the new Samuel H. Packer Trophy by defeating Hamilton in the playoffs. The old Cup was taken into permanent possession by Colgate last year when they won the tournament for the third time.

Johnnie White and Fred Kaneb were asked to play for the All-Stars in three games against the tournament winner, Colgate. Kaneb and White showed themselves to be good performers, each scoring two goals for the All-Star cause. Tech really had something to show the boys for their Christmas stocking.

Tech is to play Boston University in a return match at the Boston Arena. This game plus the New Hampshire-Tufts match is in the spotlight for tonight. Dick Bettes, sterling forward from last year's team, will be back in the lineup after missing the first part of the season with a broken jaw. Bettes return will greatly strengthen the team, according to manager Fran Carey.

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CALENDAR

TUESDAY, JANUARY 5, 1943

5:00 P.M. A.E.S.-I.A.S. Movie—Room 1-390.

WEDNESDAY, JANUARY 6, 1943

9:00 A.M. T.E.N. Comes Out—Main Lobby, Bldg. 10

5:00 P.M. Catholic Club Meeting—Room 10-225.

Graduate Students Can Be Deferred Under New Ruling

(Continued from Page 2)

degree of training, qualification, or skill.

5. Graduate Students

A graduate or postgraduate student undertaking further studies in those scientific and specialized fields following completion of his normal undergraduate course of study may be considered for occupational classification 11, in addition to pursuing further studies, he is also acting as a graduate assistant in a recognized university or college. A graduate assistant is a student who in addition to pursuing further studies is engaged in one of the following:

(a) in scientific research certified by a recognized federal agency as related to the war effort; or

(b) in classroom or laboratory instruction for not less than twelve hours per week.

6. Opportunity to engage in profession

When a registrant has completed his training and preparation in a recognized college or university and has acquired a high degree of training, qualification, or skill in one of these scientific and specialized fields, such registrant should then be given the opportunity to become engaged in the practice of his profession in an activity necessary to war production or essential to the support of the war effort. In many instances following graduation from a recognized college or university, a certain period of time will be required in the placing of trained, qualified, or skilled personnel in an essential activity. When a registrant has been deferred as a necessary man in order to complete his training and preparation, it is only logical that his deferment should continue until he has an opportunity to use his scientific and specialized training to the best interest of the nation. Accordingly, following graduation from a recognized college or university in any of these scientific and specialized fields, a registrant should be considered for further occupational classification for a period of not to exceed 60 days in order that he may have an opportunity to engage in a critical occupation in an activity necessary to war production or essential to the support of the war effort, provided that during such period the registrant is making an honest and diligent effort to become so engaged.

7. Effective period of this bulletin

This bulletin and attached list amends and supersedes Occupational Bulletin No. 10 of June 18, 1942. This amendment is effective until July 1, 1943, unless sooner amended. During the effective period of this bulletin the War Manpower Commission is giving further study to the training and preparation and utilization of persons trained in these scientific and specialized fields.

CRITICAL OCCUPATIONS

Scientific and Specialized Fields Engineering Fields

Aeronautical Engineers, Automotive Engineers, Chemical Engineers, Civil Engineers, Electrical Engineers, Heating, Ventilating, Refrigerating, and Air Conditioning Engineers, Industrial Engineers, Marine Engineers, Mechanical Engineers, Mining and Metallurgical Engineers, including Mineral Technologists, Radio Engineers, Safety Engineers,

T.E.N. On Sale In Main Lobby For Two Days

Printer Trouble Caused Delay in Appearance Of December Issue

The December issue of the Technological Engineering News, originally scheduled to come out before the Christmas vacation, is to be on sale all day Wednesday and Thursday of this week, in the main lobby of building 10. The magazine was delayed by printer trouble, according to David Jealous, '44, General manager of the publication.

This issue contains articles written by students at the Institute and also several digests of technical articles that have appeared in company pamphlets and periodicals.

"Chemicals on the Battle Front", an article written by Edgar M. Queeny, explains the role chemistry will play in this war and shows how the chemical industry has prepared itself for its part in the war effort. "Women Take Over" by Ralph R. Feuring, '44, tells of the increase in the employment of women in all types of industry and how this type of employment is to relieve labor shortage.

The third article, by G. A. Mohlman, gives a technical account of the use of automatic machinery in the wrapping of merchandise. The digests of technical articles are entitled: "Briefing the News" and are individually entitled: "Refrigerator Containers for Blood Donations", "Wood Manhole Covers Conserve Iron", "Jewels for Electrical Instrument Bearings", "New Plastic Replacing Steel", "Palladium for Jewelry", and "New Electronic Eye to Measure United States Sunfall".

Science of Life

(Continued from Page 2)

It has been varied since then by the excellent work of Professor Samuel Prescott, who introduced Public Health and Food Technology, and Professor Schmitt is now expanding biological research particularly in terms of physics and chemistry.

Thus, the word technology takes on a new meaning. Since it no longer embraces simply the physical, engineering, and chemical fields, but the fields of biology and subsequently those of psychology and sociology, technology is playing a dominant role in the manner in which the new world will be shaped. It is interesting to realize that the farsighted doctrine which made compulsory at least for freshmen the subjects of chemistry, physics, and mathematics was introduced long before biology had approached the quantitative aspect.

Sanitary Engineers, Transportation Engineers—Air, Highway, Railroad, Water.

Other Specialized Fields

Bacteriologists, Chemists, Geophysicists, Mathematicians, Meteorologists, Naval Architects, Physicists, including Astronomers, Psychologists.

(Note: By this amendment Industrial Engineers; Sanitary Engineers and Bacteriologists have been added. Accountants, Economists, Industrial Managers, Personnel Administrators, and Statisticians have been excluded.)

EXAMINATION SCHEDULE

FRIDAY, JANUARY 22—2 P. M.

42	Structures, Th	Mitsch
482	App. Mechanics	Adkins
58	Flotation	Schubmann
452	Eur. Civ. & Art	Seaver
04	Elec. Eng. Prin.	Woodruff
04	Pub. Health Prob.	Turner
.712	Tech. of Food Prod.	Proctor
.80	Biochemistry	Gould
0.21	Ind. Chemistry	W. K. Lewis
3.55	Marine Eng.	Burtner
6.14	Airpl. Des. Prob.	Koppen
	Special Examinations	

SATURDAY, JANUARY 23—2 P. M.

1.48	Foundations	D. W. Taylor
2.56	Pow. Plant Eng.	Fales
2.796	Auto. Vehicles	Schumb
5.062	Inorganic Chem.	Wildes
1.511	El. Pow. Circuits	
6.605	Dyn. Anal. Auto.	
	Con. Sys.	G. S. Brown
8.411	Nuclear Physics	R. D. Evans
10.32	Chemical Eng.	McAdams
10.32	Aircr. Structures	Newell
6.292T	Ultra High Freq.	
	Techniques	Woodruff
15.51	Ind. Account.	Robnett
	Special Examinations	

MONDAY, JANUARY 25—9 A. M.

1.272	Transport. Eng.	Balcock, Bone
1.561	Adv. Struct. Th.	Fife
1.78T	Sanitary Eng.	Camp
2.04	App. Mechanics	MacGregor
2.06	App. Mechanics	Adkins
2.211	Adv. Mech. Eng. Prob.	Soderberg
2.44	Heat Engineering	Keenan
4.461	Eur. Civ. & Art	Seaver
5.41	Organic Chemistry	Ashdown
6.58	Trans. in Lin. Sys.	M. F. Gardner
7.10	Invert. Zoology	Blake
7.17	Biol. Food Sup.	Jennison, Blake
7.592	Pub. Health Eng.	Horwood
8.01	Physics	Sears
8.012	Physics (College Transfer)	Goodman
8.463	Int. to Th. Phys.	Tisza
10.45	Distil. & Absorp.	Gilliland
16.25	Adv. Aircraft Str.	Newell
E43	Sem. Ec. & Ind. Hist.	Seville
M36	Adv. Calculus	Douglass
M671	Par. Diff. & Int. Eq.	Crout
M831	Analysis	Franklin
	Special Examinations	

MONDAY, JANUARY 25—1:30 P. M.

1.32	Des. of Har. Works	Reynolds
1.71	Water Power Eng. & Flood Control	Gifford
1.711	Water Power Eng. & Flood Control	Gifford
2.081	App. Mechanics	Adkins
2.34	Adv. Metals & Test.	Lessells
2.792	Auto. Engines	C. F. Taylor
4.471	Eur. Civ. & Art	Seaver
5.51	Func. Groups in Organic Chemistry	Hockett
7.362	Indust. Microbiol.	Sluder
8.05	Vibra. & Sound	Fountain
8.461	Int. to Th. Phys.	Harvey
8.460	Chem. Eng. Thermo.	Meissner
13.56	Marine Eng.	Chapman
16.63	Aero. Laboratory & Research Methods	
Ec63	Indust. Relations	Ober
E21	Lit. & History (Growth of the West. World Option)	Pizors
E21	Lit. & History (Dev. of American Civil. Option)	Bartlett
E21	Lit. & History (History of Thought Option)	Rae
E21	Lit. & History (Literature Option)	P. Roberts
7.81	Enzymology	Eaton
E21	Lit. & History (Ind. Relations Option)	Sizer
	Special Examinations	Bartlett

TUESDAY, JANUARY 26—9 A. M.

1.571	Stat. Indet. Struct.	Wilbur
1.811	Adv. Sanitary Eng.	Camp
2.41	Heat Engineering	Taft
2.42	Heat Engineering	Stenson
5.61	General Chemistry	Wareham
5.061	Inorganic Chem.	Schumb
5.53	Sp. Top. in Org. Ch.	Morton
6.45	Elec. Engineering	Kingsley
8.21	Electronic Phen.	Nottingham
Ec11	Econ. Prin.	D. S. Tucker
Ec12	Econ. Principles	D. S. Tucker
M111	Calculus	Gelotte
M351	Adv. Cal. for Eng.	Franklin
M551	Punct. of Real Var.	Salem
7.20T	Human Physiology	Sizer
	Special Examinations	

TUESDAY, JANUARY 26—1:30 P. M.

2.032	Struct. Mechanics	Holmes
6.43	Electrical Eng.	Kingsley
6.582	Adv. Network Th.	Gilliein
8.161	Optics	Hardy
10.31	Chemical Eng.	McAdams
M21	Calculus	Hitchcock
M21	Calculus (VII, VIII, XV)	Wadsworth
M22	Diff. Equations	Zeldin
M351	Th. of Functions	Cameron
	Special Examinations	

WEDNESDAY, JANUARY 27—9 A. M.

1.22	Quant. Surveying	Balcock
1.631	Theory of Models	eynolds
2.011	App. Mechanics	L. S. Smith
2.042	App. Mechanics	MacGregor
2.31	Eng. Materials	Kyle
5.141	Anal. Chemistry	Gibb
6.11	Prin. Elec. Eng.	G ay, Kingsley
6.521	Adv. Alt. Cur. Mach.	Lyon
7.301	Bacteriology	orwood
13.01	Naval Arch.	Manning
15.61	Law of Contracts	Chesfer
M31	Diff. Equations	Franklin
	Special Examinations	

WEDNESDAY, JANUARY 27—1:30 P. M.

4.421	Arch. History	E. T. Putnam
5.71	Physical Chem.	Sherrill
8.03	Physics	Page
8.03	Physics (VI, VI-A, VII, XVIII)	Mueller
13.13	Th. of Warship Des.	Keih
13.73	Mech. Vibration	F. M. Lewis
	Special Examinations	

THURSDAY, JANUARY 28—9 A. M.

2.40	Heat Engineering	Svenson
3.01	Non-Ferrous Met.	Hayward
6.41	Fund. of Elec. Eng.	Fitzgerald
7.701	Tech. & Chem. of Food Supplies	
8.061	Inter. Physics	Porter
8.511	Ther. & Stat. Mech.	Stears
10.28	Chemical Eng.	Tisza
13.50	Accounting	C. S. Robins n
M11	Calculus	Porter, Robnett
M12	Calculus	Douglass
M791	Th. & App. Elasticity	eissner
2.402	Heat Eng.	Svenson
13.15	Th. of War. Des.	Rosell
	Special Examinations	

THURSDAY, JANUARY 28—1:30 P. M.

1.491	Soil Mechanics	D. W. Taylor
2.00	App. Mechanics	L. S. Smith
2.271	Hydromechanics	Lightmire
5.12	Quant. Analysis (V & X only)	Marvin
7.01	General Biology	chmitt
10.52	Chemical Eng.	Gilliland
M23	Algebra	Wadsworth
	Special Examinations	

FRIDAY, JANUARY 29—9 A. M.

2.01	App. Mechanics	L. S. Smith
5.61	Phys. Chemistry	Gray
6.01	Prin. Elec. Eng.	W. K. Lewis
6.02	Prin. Elec. Eng.	Manning
10.25	Ind. Chemistry	Porter, Robnett
13.34T	Ship Design	Bishop
15.32	Accounting	Wadsworth
Ec111	Economic Prin.	
M31	Math. Th. of Stat.	
	Special Examinations	

Track Team Practices

(Continued from Page 3)

tions on the two-mile relay team are Bob Miller, George Zeigler, Warren Spear, Bob Jevon, and Bob Cummings. The freshman relay team will be chosen from the following men who are working out on the board track now: Alan Kay, William Kindell, Otto Kirschner, Frank Cassidy, Charles Goldie, Pete Richards, Ed Penner, James Shearer, Martin Walzer, and George Wood.

Senior Week Events

(Continued from Page 1)

Minister of Munitions and Supply will deliver the Commencement address to the departing Seniors. Mr. Howe, a graduate from the Institute with the Class of 1907 is at the head of Canada's war production program, and as such directs the Dominion in a war effort unsurpassed by any of the United Nations as judged on a population basis.

President Compton's reception for the new alumni is slated for Monday afternoon, and the concluding event of the week will be the Senior Ball, last of this year's Institute Committee sanctioned formal dances.

Chi Epsilon Fraternity Entertained By Professor

On December 17, Chi Epsilon, honorary Civil Engineering fraternity, held a meeting at the home of Dr. Frederick K. Morris, of the Department of Geology.

Dr. and Mrs. Morris entertained the group with an oriental dinner of Chinese dishes including the chop sticks. After dinner Dr. Morris told the story of the Great God Shri, a tale of his travels in India, accompanied by picturesque slides in natural color. Before leaving, members of the fraternity received copies of Dr. Morris's whimsical map of the institute.

Infirmary List

Monday—January 4, 1942

- William G. Atkinson, Jr., '46
- Henry D. Ferris, '43
- Alvin A. Markus, '44
- Robert Sensheimer
- John R. Taft, '44
- Professor Norbert Wiener

Work Camp Will Be Held Saturday

This coming Saturday, January 9, the T.C.A. will sponsor another work camp. This camp is to be held at the Ellis Memorial, 66 Berkeley Street, Boston. The work to be done will consist of washing windows, washing and painting walls, repairing some furniture, putting windows, rebuilding the walls in one room, and repairing two skylights. Skilled carpenters are especially needed.

Those going will leave the T.C.A. office in one of two groups. The first to leave at 12:30 P.M. and the second for those who have 12:00—1:00 classes is to leave at 1:15 P.M. Both groups will meet at the T.C.A. office before going.

Those interested should leave their names in the T.C.A. office. Dinner Saturday night will cost those going 30c. After dinner a discussion group will be organized, to be followed by dancing.

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