



Ice Men Annex Consolation At Lake Placid

Pucksters Drop Game To Colgate; Defeat Lehigh, Middlebury

Winning the Consolation title the Tech sextet won its first games of the season in the Christmas vacation tourney at Lake Placid. In a close, hard-fought game the Beavers lost only to Colgate, the winner of the tourney, by a single point scored in the last two minutes of an overtime period.

The first game and by far the best was the Colgate tussle. Fred Kaneb, starring from his defense post, led the Cardinal and Gray to a 5-5 tie with the Red Raiders in the third stanza. This called for a ten-minute overtime period to decide the issue. With only a little over one minute to play the Colgate team sent a heart-breaker into the Tech net to win, 6-5.

Middlebury Downed in Extra

Dealing out the same type of defeat as had been dealt out to them in the previous game, the Engineers nipped Middlebury, 4-3, in an extra period. The Cardinal and Gray did not seem to click as well in the Middlebury tilt as they had in the previous game allowing a 3-3 tie to be imposed by a weaker team.

However, the Engineers came through in the overtime stanza to rife in the winning point, making the final score 4-3 in their favor.

Lehigh Swamped, 6-0

The final game was a pushover, according to two Tech hockey mag-

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Air Raid Bulletin Circulated by IFC

Other Safety Measures Now Being Adopted By Most Fraternities

The latest contribution which the air raid committee of the Interfraternity Conference has made to the fraternities is the circulation of a bulletin entitled "Fire and Its Control," by Professor Earl B. Millard, chairman of the M.I.T. Safety Committee. The bulletin has been placed in the mails and should reach the fraternities today.

John S. Arend, '42, chairman of the I.F.C., stated that the bulletins were secured with difficulty and that no more are available, hence the bulletin should be saved for reference. He also stated that by this time each house should have appointed its own air-raid warden, most houses having already begun preparations such as storing sand in convenient places and designating places of greatest safety.

Some houses have made arrangements for housing their men elsewhere in case of severe damage, and other houses have been making preparations which are necessary for their particular circumstances.

Discussion On Russia Held At Faculty Club Luncheon

Professor Douglass V. Brown of the department of Economics gave a speech on "Russia in November, 1941" at a Faculty Club luncheon Monday, December 22 at the Graduate House.

Professor Brown had just returned from Russia by clipper after spending about seven weeks there as a member of the Harriman-Beaverbrook mission studying the economic phases of the Lease-Lend program. He spent half his time in Moscow, and half in Kuibyshev. On his way to Moscow he spent about a week in London in September.

New Parking Rules Announced; Go Into Effect Next Monday

New traffic and parking regulations which are required for protection of Institute property during the war will be put into effect on the Institute grounds next week, Dean John W. M. Bunker, Chairman of the Institute's Safety Committee, announced last night.

To meet the requirements of the new regulations, which will become effective Monday, January 12, a new parking space to accommodate more than 200 cars is now under construction on Briggs Field directly behind Bexley Hall.

The new regulations follow:

1. **UNRESTRICTED PARKING:** The spaces indicated by white lines to the east of Building 6 and in the new parking area on Briggs Field are without restrictions except as indicated by signs.

2. **A RESTRICTED PARKING AREA,** designated as the Parking Yard, is bounded by Massachusetts Avenue on the West, Vassar Street on the North, Building 10 on the South and the wooden hangar and squash courts building on the East. No parking will be permitted in this area on Sundays and only until 7 p.m. from Monday to Friday, and until 3 p.m. on Saturdays.

(a) **ENTRANCE** to the Parking Yard is only from Massachusetts Avenue and between the hours of 6 a.m. and 5 p.m. on Mondays to Fridays inclusive; on Saturdays between 6 a.m. and 3 p.m.

(b) **ADMISSION** to the Parking Yard is limited to:

1. Vehicles bearing numbered **YARD PARKING PERMIT** windshield stickers which will be issued only to such members of the staff or other employees whose activities center in adjacent buildings.

2. Official vehicles lettered with the name of the Massachusetts Institute of Technology.

3. Delivery trucks the drivers of which show guards legitimate reasons for entering the restricted area.

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Technology Awards "Vu" Pictorial Given To Schools Of Leading Sophs

Leading Grades In Freshman Subjects Determine Winners

Twenty-five members of the Sophomore class were recently announced to have won a prize for their high or preparatory school by virtue of their exceptionally high scholastic standing last year as members of the freshmen class.

These men won for their schools the prizes known as the Technology Awards, which are awarded annually to the schools of the five highest ranking men in each of the five major subjects of the freshman class — Calculus, Chemistry, Physics, English, and Drawing.

The members of the class of 1944 who won these prizes, the school they won it for, and the subject in which they excelled, are as follows: Lamar Field, Jr., Anniston High School, Alabama, for excellence in English; Robert D. Arnold, Western High School, Washington, D.C., in Calculus; Wayne E. Miller, Orlando High School, Orlando, Florida, in Drawing; Richard Curry, Oak Park High School, Chicago, Ill., in Physics; Gardner H. Sloan, Arlington High School, Arlington, Mass. in Calculus; Arnold Mackintosh, Jr., Needham High School, Needham, Mass., in Chemistry;

(Continued on Page 2)

Dormitory Dance To Be Held Sat.

The second in a new series of informal dances will be held from 8 until 12 next Saturday night in Pritchett Hall of Walker Memorial. The affair is being sponsored by the Dormitory Dance Committee in response to the excellent support given the experimental dance held December 6.

As an added attraction for those who decide to attend this "Vic" dance, two instructors will be on hand from the Arthur Murray Studio in order to demonstrate and instruct the guests in the latest dance steps. The price of admission for the dance has been set at 95c, and ticket sales have been limited to sixty couples.

Tickets for the dance may be obtained from John G. McMullin, '43, chairman of the committee, and his assistants Elbert B. Pritchard, '44; Harold A. Miller, '44; and Robert W. Keating, '42.

Will Appear Again Thursday

With the identity of the cover girl still a mystery, Vu will hit the stands with its second issue next Thursday morning at ten. Feature of the magazine will be several sports pictures taken with high-speed stroboscopic equipment.

Fifteen hundred copies of the issue have been printed in anticipation of a repetition of the sell-out experienced in November. Any copies not sold on Thursday will be made available on Friday morning at the desk in the main lobby of Building 10.

With metals taking the spotlight throughout the nation as an essential part of our war effort, Vu treats in words and pictures Technology's department of Metallurgy. Also notable in the twenty-four pages of the pictorial are six pages of dance pictures, including spreads on the Sophomore Prom and the A. T. O. Barn Dance; two pages on Dramashop's last production, and spreads on Holyoke, the Glee Club, the All-Tech Sing, and the Christmas Parties run for underprivileged children.

Even more pictures and more written material than the first issue contained are to be found in the magazine according to Louis Rosenblum, '42, editor-in-chief. A total of 91 photos are included.

City Planning In Modern Society Is Subject Of Documentary Film

"The City", outstanding documentary film on city planning and urban development in the United States, will be shown at 5:00 P.M. next Thursday afternoon, January 8, in Huntington Hall. Sponsored by the Housing Commission of the T.C.A., this film showing is another link in the commission's work of promoting a better understanding of the housing problem among Technology students.

Originally written by Pare Lorentz, celebrated scriptwriter, who is famed for his moving productions of "The River" and "The Fight for Life", "The City" vividly contrasts the best and worst of urban development in the United States. The film tells the story of early American life in a charming New England village, and traces the development of industrialized society to the dramatic scenes of crowds and confusion in the modern metropolis.

Senior Class Schedules For 1942 Spring Term Announced By Courses

Tech Banquet To Be Saturday

Staff To Announce Elections Of Junior And Managing Boards

To announce the elections to the new Managing Board, members of the staff of The Tech will have their annual banquet at 7 P.M., next Saturday, January 10, at the Hotel Vendome in Boston. Mr. Horace S. Ford, Treasurer of the Institute, will be the speaker of the evening.

Among the guests will be Dean Harold E. Lobdell; Robert G. Caldwell, Dean of Humanities; D. L. Rhind, Bursar; Stanley G. Fitch, General Manager of The Tech in 1900, Kenneth R. Sutherland, John J. Rowlands, Director of the News Service; James R. Killian, Executive Assistant to the President; and Frederick G. Fassett, Jr., Editor of the Technology Review.

New Boards to be Announced

Announcements of the results of the elections to the Managing Board and the Junior Board of Volume LXII of The Tech will be made following short talks by the members of the retiring Senior Board.

Official Notice

Registration material for the second term may be obtained on Friday, January 9, as follows:

First-Year Students

For those taking Chemistry 5.01, registration material will be given out in the 5.01 laboratory sections. All others, including Couse IV students, may obtain material at Mr. Pitre's office, Room 4-258.

Other Students

Obtain material in Building 10 Lobby until 1 P.M. After 1 P.M. material may be procured in the Information Office, Room 7-111.

Registration material must be returned to Room 3-107 not later than 1 P.M., Friday, January 16, to avoid the fine of \$5.00

Subjects To Begin On February Second And Will Continue To April Eighteenth

The course schedules for the Class of 1942, which were changed to make possible the early graduation of the Seniors, were announced by the various courses last night. This accelerated schedule will affect only the Senior class and those lowerclassmen who will be taking Senior subjects. There will be no change for the lower classes and graduate students, who will follow the original schedule in the catalog. They will have Registration Day on February 9. Classes for them will begin on February 10 and continue through May 27.

For the Class of 1942, Registration Day will be Saturday, January 31. Classes will begin on Monday, February 2, and finish Saturday, April 18. The final examinations will be held Monday through Wednesday, April 20-22, and Graduation on Monday, April 27. Underclassmen taking Senior subjects will have the option of starting early without handing in class cards or of starting on the 10th of February with the rest of their class and making up the week's work.

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Nelson Will Play For Senior Dance

All Seniors Welcome; Chaperones Announced For Dance Friday

Morss Hall of Walker Memorial will be the scene next Friday night of the Senior Dance. This formal affair, which is open to all members of the Senior class, is to be held from nine until two.

Earl Nelson's band will supply the music, and three vaudeville acts will supply the entertainment during the intermission. The lounge bar in Walker will be open under its usual schedule until one o'clock.

Admission Free

To gain admission to the dance it will only be necessary for any Senior to show his invitation which he received when buying his Senior week option, or show identification of membership in the Class of 1942.

The Senior Dance Committee has announced the chaperones for the affair. They are Dr. and Mrs. Karl T. Compton, Professor and Mrs. Leicester F. Hamilton, Professor and Mrs. Raymond D. Douglass, Professor and Mrs. Robert S. Williams, Mr. and Mrs. Robert K. Dix, and Professor Avery A. Ashdown.

Entries Sought In Stamp Contest

The Fifth Annual Intercollegiate Philatelic Exhibition to be held at Columbia University from April 15 to 19 is accepting applications through the host society, Filatelikus of Columbia, it was announced recently. The competition will be for the Nicholas Murray Butler Permanent Intercollegiate Philatelic Trophy and other prizes.

Any undergraduate college student may participate. More information may be obtained by writing to the secretary, Filatelikus, Box E, John Jay Hall, Columbia University, New York City.

Entries are to be judged on neatness, knowledge of the stamps and philatelic research. There will be a \$1.00 entry fee.

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The Tech

Vol. LXI Tuesday, January 6, 1942 No. 55

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NEW PARKING REGULATIONS

Effective next Monday, restricted parking areas will be established around the Institute buildings in order to better protect this property during the war.

This is one of the first precautions that the Institute has taken for building protection to vitally affect a considerable portion of the student body and staff. To alleviate the congestion that the elimination of this large parking area would cause, work is now nearing completion on a new parking lot on the Coop Field directly behind Bexley Hall. This new lot will accommodate approximately 200 cars.

With this new lot and the area beside the dorms and in front of the swimming pool, adequate space should be available for Institute parking. However, much unnecessary confusion will be avoided if the students remember these new parking regulations and not attempt to park behind the main building and beside Building 2 and 6. Any attempts to do so will result in avoidable traffic jams and delays.

It is indeed fortunate that the Institute had the ground available and the willingness to build the new parking lot because in the light of present conditions the Institute was not obligated to undertake this construction.

A STITCH IN TIME SAVES NINE

Today each fraternity house should receive a copy of Professor Millard's instructions to air raid wardens as to control of incendiary fires which has been issued by the Interfraternity Conference. At the present time, this supply is limited so that there was only one copy available for each house.

Much of the initial excitement has worn off since war was thrust upon us less than a month ago, but the problems and possibilities of emergency remain undiminished. Many people still feel that three thousand miles of ocean offer sufficient protection from air raids, but a nation at war should be prepared for any eventuality.

A fraternity house represents a considerable investment and any possible damage should be minimized. To meet these dangers should they ever arise, several members of each fraternity should be thoroughly familiar with the methods and techniques of fire control and protection.

The Interfraternity Conference has made a wise step in distributing copies of Professor Millard's lecture and it is for the welfare of every fraternity to take advantage of this information.

READ IT, BUT DON'T WEEP

Bulletin board readers will know by this time that the much maligned Walker Memorial Committee has profited by the chiding they took after that big confused social week-end about a month ago. A large chart has been posted on the bulletin board opposite the Cashier's Office which is arranged in calendar form on which the various activities should list their events.

This is a much needed beginning, and one which should prove to be invaluable if successful. However, from now on the greater part of the task lies with the individual organizations in their promptness to report social affairs and their readiness to use the chart as a guide in planning functions.

We wish to congratulate the Walker Memorial Committee for this progressive step. The burden of the proof as to its success in regulating Technology's jumbled social life remains with the Institute organizations. You can lead a horse to water but you can't make him drink.

THE READER SPEAKS

Theory of Economics

December 15, 1941

Editor, The Tech:

Dear Sir:

An interesting article indeed appeared in the December 12th issue of The Tech concerning the sale of Defense Stamps at booths in the corridors. The idea is a good one but for one small item at the end: Give your date defense stamps instead of a corsage.

This latter proposal defeats the purpose of a loan-taxation program which is to reduce consumption in industries conflicting with defense requirements, both as to raw materials and labour.

Nothing could be better than the spending of excess earnings (if there be any) on non essential items like flowers, dances, and the like. Why bring hardship on the flower industry which could contribute nothing to the defense program especially in the face of the impending defense unemployment?

It is a small matter but typical of the general lack of forethought engendered by war hysteria.

Sincerely yours,

Fred Olsen, '42

Objection Sustained

Dear Sir:

With the Seniors already robbed of any more vacations until they graduate, I feel that there could be a change made in the date of registration for the second term in order that the week-end following examinations may be freed for a holiday previous to the start of second term classes.

As plans stand at present, registration will be held on Saturday, January 31, the day following examinations. Since the tests cannot be graded until after classes for the second term are actually underway, it appears that the date of registration is irrelevant to the start of classes. Consequently, why could registration not be held sometime previous to Saturday at the convenience of the Seniors? A day in the middle of the week could be designated for registration, and Seniors could register either in the morning or afternoon, as most students do not have two examinations on the same day. For those few who might be so unfortunate, special compensation could be made.

These changes would not involve much difficulty because January 31 was a makeshift date anyway, and furthermore only the members of the Class of 1942 would be involved. I feel that most Seniors would appreciate the opportunity to get away from school after examinations if even for only two days.

Sincerely yours,

A Member of the Class of 1942.

CHI PHI COMES IN



War Dislocates Radio Hams; Emergency Service Organized

Among those groups first to feel the force of war on Technology were the many radio amateurs who infest these sacred halls. With their favorite avocation cut off by suspension of licenses with the declaration of war, hams are now laying plans to cooperate with the rapidly organizing emergency relay service.

One of the most active groups of radio amateurs before the start of the war was the radio club at the Chi Phi Fraternity. Formed early last year the club has been operating since early last spring. Inspirator of the club and its leader throughout its existence was Fletcher H. Moore, '44, who hails from Cincinnati. Six foot four Tiny Moore, a ham for many years, has been the spark plug for the whole idea. At Culver Military Academy he was instrumental in starting a radio club also, eventually getting financial as well as spiritual backing from the school authorities.

150 Watt Transmitter

'First rig to go on the air at 22 The Fenway was a transmitter which gave out 150 watts on the twenty meter phone band. Members and friends from all parts of the country found great use for the club radio in messages and chats with lucky women at home. One of

the biggest problems arising from the starting of the station was interference with reception on cheap broadcast receivers in the neighborhood. Weekend following the first attempts at transmission found Moore and his cohorts sitting up late absorbed in the task of shielding receivers owned by people for blocks around.

The beginning of the new school year found the rig revamped to put out over 850 watts, still on the twenty-meter band. Reports from all parts of the country revealed the fact that WINGR was coming in "like a ton of bricks." Few amateur rigs use this power, and, according to Moore, even the 150 watt transmitter was superior in every respect to WIMX, station run by the M.I.T. Radio Society.

Code Classes

Activities at the moment include sporadic attempts at code classes for the more ignorant among the Chi Phi's, and work which is slowly progressing on a converter for emergency power. The latter is a part of a nation-wide attempt by the American Radio Relay League, national ham organization, to develop a network which will be able to supply auxiliary communications in case of air raids or other disasters.

Technology Awards

(Continued from Page 1)

Richard S. Bettes, Springfield High School, Springfield, Mass., in Calculus; John Chamberlain, Lincoln High School, Ferndale, Mich., in Calculus; and Lawrence C. Biedenharn, Jr., Carr Central High School, Vicksburg, Miss., in English.

Stevens H. Brown, East Orange High School, East Orange, N. J., in Drawing; Mortimer W. Meyer, Jr., Columbia High School, South Orange, N. J., in Chemistry; William H. Redlien, Jr., Baldwin High School, N. Y.; for Calculus; Eugene W. Sard, Brooklyn Technical High School, Brooklyn, N. Y., in Drawing; Joseph Shrier, New Rochelle High School, New Rochelle, N. Y., in Physics; Robert L. Halfman, Friends Seminary, New York City, in Drawing; and William E. Ritchie, Trinity School, New York City, in English.

Henry P. Whitaker, Penn Yan High School, New York, in Chemistry; Robert F. Kratz, Jr., Valley Forge Military Academy, Wayne, Pa., in Chemistry; Harold Boericke, Jr., Lower Merion High School, Ardmore, Pa., in English; George J. Yevick, Berwick High School, in English; James Woodburn, Jr., Franklin High School, Pa., in Physics; John N. Childs, Jr., Germantown Friends School, Philadelphia, Pa., in Physics; Will B. Rodeman, Central High School, Scranton, Pa., in Drawing; Richard O. Braendle, Upper Darby High School, Pa., in Chemistry, and Henry C. Bourne, Jr., Virginia Episcopal School, Lynchburg, Va., in Physics.

City Planning

(Continued from Page 1)

of the future which have already been realized.

Results

Two basic generalizations arise from the film: (1) that transfer from an agricultural to an industrial existence has provided cities which have failed to accommodate basic human needs; (2) that an industrial civilization can provide an environment favorable to good living by the intensive application of science and engineering to the design of such communities.

The film is being distributed by the Museum of Modern Art Film Library, New York City, and provides effective stimulus to discussion and research dealing with community planning in an industrialized society.

Boit, Dalton, and Church

89 BROAD STREET
 BOSTON

INSURANCE
 OF
 ALL KINDS

Beaver Key Cage Tourney Starts

Delta Tau Delta And Lambda Chi Alpha In Opening Encounter

The annual Beaver Key basketball tournament, only intramural athletic competition to be held in the Institute in the winter season, will get under way tonight in the Hangar Gym when Delta Tau Delta and Lambda Chi Alpha meet at 8 o'clock. At 9 o'clock the Alpha Tau Omega hoopsters will engage Phi Sigma Kappa in the second game. On Thursday, January 8, Phi Beta Epsilon will meet Beta Theta Pi in the opening encounter while the second game will match Kappa Sigma and Sigma Alpha Mu. Three games are scheduled for Sunday, January 11. These will be Sigma Chi matched against Pi Lambda Phi, Theta Delta Chi against Phi Kappa Sigma, and Chi Phi against the 5:15 Club, which won the tournament last year.

The first round is to be completed by Sunday, January 18, in order that the second round can get under way by February 15. Any team not competing as scheduled will receive a penalty of two points deducted from their total score unless they notify Frank E. Briber, '43, chairman of the tournament, twenty four hours before the game. Each game will consist of four ten minute quarters. Three first place teams in the fraternity competition will meet the two winning dormitory teams in a round robin playoff for the championship.

Swimmers Active Through January; Varsity Travels

The varsity swimming team will travel to Middletown Connecticut this Saturday for a meet with Wesleyan University. This meet will be the team's fourth of the season and the first of the new year. The following Saturday, the squad travels to Brunswick, Maine, for its only other meet of this month and then rests until February 17.

Having lost its first three meets, the team is expected to make a better showing against their next foes. The Technology swimming teams, varsity and frosh, split two tussles with Harvard in their pool on Wednesday, December 17. The freshmen became the first team from the Institute ever to defeat a Harvard swimming team.

Varsity Shows at Home

So far the varsity has had no meets in the Alumni Pool, in fact they won't have any meets here until February 25 when Boston University invades Alumni Pool. This meet is one of three which the varsity is to have at home this year.

The freshman swimming team, which has won its first two meets this year will also continue its season next Saturday. Worcester Academy will bring a strong team here for an encounter on that day. This meet with the two which follow are to be the toughest for the frosh this year. On January 14, the team will go to Andover. At the end of the week, the frosh will have another formidable opponent in the form of Exeter, here on Saturday

Puckmen Face B.C. Tonight After Taking Consolation Title At Lake Placid During Vacation

Pucksters Down Middlebury 4-3 And Lehigh 6-0, Lose To Colgate

(Continued from Page 1)

nates. Sophomore Dick Bettes was the star, scoring most of the goals for the Beavers. The pucksters greatly out-passed and out-played the Lehigh sextet and scored six goals. Goalie Ed Edmunds handed in a shut-out record making the final score 6-0 in favor of the Engineers.

The Beavers proved to have a better team this year than last if the record of 1940 is any criterion. Last Christmas, Tech was trounced by Colgate, 9-1. This year the Red Raiders succeeded in winning only by a single late goal in a hard-fought overtime.

Tech Has Improved

This year as last year, Tech won two of the three games to take the Consolation title. Last year the Engineers beat Lehigh, 7-2, and clipped St. Lawrence University, 3-1.

Varsity Squash Team Wins Stevens Matches

The varsity squash team came off with top honors in a match played at Stevens Institute of Technology during the Christmas vacation. The Technology freshmen lost to the University Club Blues on December 19 in a game played at the Institute.

In the varsity match, Jack Sheetz defeated G. Silliman 3-1, Stouse won his match 3-1, R. Gunther won 3-2, and J. Barry, and J. Shaw both won 3-0.

The freshmen were completely blanked out as Urbina, Vachen, Bell, Peters, and Goodrich, all of U. C. B. won their matches 3-1, 3-0, 3-0 and 3-0 respectively.

The freshmen will go into action on Wednesday when they play the Harvard Club. On Friday they will play Amherst here.

Iceemen Engage Boston College's Unbeaten Team At Arena, Tonight

The puckpassers meet the powerful Boston College varsity tonight in the Boston Arena at 8:00 o'clock in the fourth game of the season in the New England Intercollegiate League.

The Boston College club led by Captain Powers has handed in an undefeated record so far this season, even beating the strong Northeastern team. Boston College won the New England League title last year.

Probable Line-Up

The probable line-up will be forwards Johnny White, Johnny Arnold, and Dick Bettes. The defense starters are to be Fred Kaneb and Johnny Burdakin. Ed Edmunds, the only regular Beaver goalie, will stop them at the net.

An alternate line will consist of Bob Gillen, Johnny Neal, and Jim Hart with Roger Paterson and Bill Verrochi as alternates. Co-Captains Dick Small and Dave Christison will serve in defense work

Three Defeats

So far in the New England Intercollegiate League the Engineers have met three defeats. In the opening game the Beavers lost a well played game against a superior Boston University squad to the tune of 4-1.

The pucksters raised their score ratio against an even more powerful Northeastern team, with the score 5-3 during most of the last period. The Beavers tried desperately to tie it up but left open a Northeastern break which made the final score 6-3. In the third tussle, with the less powerful Colby sextet, the Beavers handed in a sad exhibition, losing 8-5 in overtime.

No Change Planned In Dinghy Racing

Crowley, Wood Attend I.C.Y.R.A. Winter Meeting At New York Yacht Club

The existing emergency will cause no major changes in the program of the Intercollegiate Yacht Racing Association, according to Thomas T. Crowley, '42, president of that organization and commodore of the M.I.T. Nautical Association, who attended the winter meeting on Saturday, December 27, at the New York Yacht Club. The usual spring schedule has been planned with the exception of the McMillan Cup races for which no definite date has been set and which, in all probability, will not be held.

Most important piece of business transacted at the meeting was the adoption of amendments designed to improve the organization of the

(Continued on Page 4)

REVISED COURSE SCHEDULES — SECOND TERM — FOURTH YEAR FOR CLASS 1942 ONLY

I. CIVIL ENGINEERING

1.42 Structures	3-6
1.48 Foundations	3-4
1.50 Structural Design	8-0
2.687 Hydraulic Lab.	2-2

*Professional Electives

Waterworks and Sewerage

1.76 Sanitary Eng.	2-3
1.79 Sanitary Design	2-0

Transportation

1.272 Transportation Eng.	5-4
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Water Power and Flood Control

1.71 Water Power Eng. and Flood Control	7-3
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II. MECHANICAL ENGINEERING

Option 1. General

2.082 Applied Mechanics	3-5
2.32 Engineering Metals	3-2
2.56 Power Plant Eng.	2-4
Elective	12

Option 2. Automotive

2.082 Applied Mechanics	3-5
2.79 Automotive Dynamics	2-2
2.792 Automotive Engines	4-4
2.794 Automotive Eng. Des.	4-0
2.796 Automotive Vehicles	3-5

Option 3. Heat

2.44T Heat Engineering	3-5
2.56 Power Plant Eng.	2-4
Elective	18

Option 4. Materials and Design

2.082 Applied Mechanics	3-5
2.33 Adv. Eng. Metals	3-2
2.77 Des. of Prod. Mach.	4-2
2.33 App. of Metal	3-2
2.50 X-Ray Metallography	3-3

III. METALLURGY

Option 1. Metallurgy

2.40 Elec. Eng., Elem.	4-6
2.81 Elec. Eng. Lab.	2-2
Thesis	12
Electives	6

Option 2. Mineral Dressing

2.84 Min. Dress. Practice	2-2
2.86 Comminution	2-3
2.40 Economic Geology	3-6
Thesis	12

IV. ARCHITECTURE

Fifth Year

2.052 Freehand Drawing	6-0
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4.482 Eur. Civ. & Art	2-3
Thesis	24

IV-B.—CITY PLANNING Fifth Year

4.482 Eur. Civ. & Art	2-3
4.652 Th. & Prac. City Plan.	3-3
Ec84 Social & Econ. Factors in City Plan.	2-4
Thesis	18

V. CHEMISTRY

5.062 Inorganic Chemistry	2-3
5.64 Int. to Rad. Chem.	2-3
5.66 Sur. & Colloid Chem.	2-3
Thesis	11
Elective	9

VI. ELECTRICAL ENGINEERING

6.04T Elec. Eng., Prin.	4-6
Electives*	25

*See page 55 of Catalogue.

Additional electives include:

6.29 Ultra-High Freq. Tech.	6-6
6.79T Elec. Eng. Lab.	4-5
Thesis	Time arr.

VI-B. ILLUMINATING ENGINEERING

6.272 Illum. Eng. Prin.	5-4
8.462 Int. Th. Physics II	4-8
Thesis and Electives	14

VI-C. ELECTRICAL COMMUNICATIONS

6.32 Elec. Com., Prin.	4-8
Electives*	23

*See page 55 of Catalogue.

Additional electives include:

6.29 Ultra-High Freq. Tech.	6-6
6.332 Elec. Com. Lab.	4-4
6.34 Elec. Com. Lab.	Time arr.
Thesis	Time arr.

VII. BIOLOGY AND PUBLIC HEALTH

Option 1 (a).

Biology and Public Health

7.52 Industrial Hygiene	5-3
7.542 Public Health Admin.	2-3
7.552 Immunological Methods	6-1
Thesis and Elective	16

Option 2

Public Health Engineering

1.421 Structures	2-4
1.76 Sanitary Eng.	2-3
1.802 Sanitary Design	5-0
2.65 Mech. Eq. Bldg. H. & V.	4-3
7.52 Industrial Hygiene	5-3
7.542 Public Health Admin.	2-3

(Continued on Page 4)

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Senior Schedules . . . (Continued from Page 3)

VII-B. FOOD TECHNOLOGY AND INDUSTRIAL BIOLOGY	
2.601 Food Engineering	3-3
7.362 Industrial Microbiology	4-4
7-712 Tech. Food Products	6-3
Elective and Thesis	12
	<hr/> 35
VIII. PHYSICS	
Option 1. General Physics	
Option 2. Applied Physics	
8.12 Experimental Physics	2-4
8.462 Int. Th. Physics II	4-8
Elective and Thesis	17
	<hr/> 35
IX-A. GENERAL SCIENCE	
IX-B. GENERAL ENGINEERING	
Elective and Thesis	35
X. CHEMICAL ENGINEERING	
2.688 Engineering Lab.	3-3
10.21 Industrial Chem.	2-2
10.32 Chemical Eng.	4-5
Prof. Elect. and Thesis	16
	<hr/> 35
X-B. CHEMICAL ENGINEERING PRACTICE	
10.26 Ind. Chemical Lab.	5-1
10.30 Eng. Equipment	4-1
*Field Station	12
*Field Station	12
	<hr/> 35
*Students will take two of the following Stations:	
10.84 Bangor	12
10.85 Parlin	-12
10.86 Buffalo	12
XI. SANITARY ENGINEERING	
1.42 Structures	3-6
1.48 Foundations	3-4
1.52 Structural Design	3-0
1.76 Sanitary Eng.	2-3
1.802 Sanitary Design	5-0
2.687 Hydraulic Laboratory	2-2
	<hr/> 33
XII. GEOLOGY	
Option 1. Geology	
Elective	35
Option 2. Mineral Resources	
12.92 Min. Methods & Pract.	3-6
General Study	3-3
Elective	20
	<hr/> 35
XIII. NAVAL ARCHITECTURE AND MARINE ENGINEERING	
2.311 Engineering Mat.	6-3
2.371 Testing Mat. Lab.	2-1
2.684 Engineering Lab.	2-2
13.55 Marine Engineering	2-3
13.467 Ship Design	4-0
13.62 Marine Eng. Design	6-0
Elective	6
	<hr/> 37

XIII-C. MARINE TRANSPORTATION	
Fifth Year	
13.47 Ship Design	6-0
13.82 Ship Operation	3-5
Ec54 Corporations	3-3
Elective	16
	<hr/> 36
XV. BUSINESS AND ENGINEERING ADMINISTRATION	
Option 1	
(Based on Physical Sciences)	
15.92 Industrial Problems	2-6
Bus. or Econ. Elec.	18
Engineering Elective	8
	<hr/> 34
Option 2	
(Based on Chemical Sciences)	
10.21 Industrial Chem.	2-2
10.32 Chemical Eng.	4-5
15.92 Industrial Problems	2-6
Bus. or Econ. Elec.	14
	<hr/> 35
XVI. AERONAUTICAL ENGINEERING	
16.14 Airplane Des. Prob.	6-6
16.22 Aircraft Structures	3-5
16.75 Const. Details Aircraft	7-2
Ec12 Economic Principles	3-3
	<hr/> 35
XVII. BUILDING ENGINEERING AND CONSTRUCTION	
1.48 Foundations	3-4
17.40 Estimat. & Job. Manag.	5-1
Professional Elect.*	22
	<hr/> 35
*Required for the Engineer	
17.54 Structural Design	11-3
*Required for the Constructor	
17.42 Construction Prob.	4-0
17.541 Structural Design	7-3
	<hr/> 35
XVIII. MATHEMATICS	
Option 1. Pure Mathematics	
M382 Theory of Functions	3-9
Thesis and Elective	23
	<hr/> 35
Option 2. Applied Mathematics	
Engineering Elective	3-6
Elective and Thesis	26
	<hr/> 35
Option 3. Industrial Statistics	
Ec34 Des. of Experiments	4-6
M37 Advanced Calculus	3-6
Electives	16
	<hr/> 35

Recent Discoveries In Atomic Physics Lead To Developments In Geology

Recent discoveries in atomic physics are already finding application in the search for strategic minerals as a result of a new development at the Massachusetts Institute of Technology which was announced at the joint meeting of the Geological Society of America and the American Mineralogical Society in Boston last Tuesday.

If a sample of ordinary rock or ore is bombarded with stray neutrons from the cyclotron, even while other research is in progress, certain elements can be made temporarily radio-active. The distribution and assay value of these elements can then be determined by merely placing the rock or ore in direct contact with a photographic film, or by counting the number of clicks which the radiations from the active elements produce in a quantum counter. In other words, it is as though the active elements left their fingerprints and spoke out loud.

Distinguished by Decay Rate
This is possible because each

element has its own characteristic rate of decay. Thus the identity of the individual atoms that are dating the film or clicking the counter is revealed by the rate at which their activity decreases. For example, in about two and one-half hours the activity from manganese falls to one-half the original value while gold requires two and one-half days for a similar decrease.

Dr. Clark Goodman, research associate in physics, and Mr. George Thompson, graduate student in geology, have found that manganese, gold, tungsten, copper, arsenic and phosphorus are particularly well suited to this study. The more common elements, such as silicon, oxygen, aluminum and sulphur, which are generally associated with the rarer elements, are activated to a negligible extent.

Similar information can be obtained by chemical and spectroscopic methods, but the photographic-counter method in some cases is considerably faster and yields information that could otherwise not be obtained.

Parking Rules (Continued from Page 1)

- (c) **EXIT** from the Parking Yard is permitted through:
1. The Massachusetts Avenue gate.
 2. The westerly gate on Vassar Street.
 3. The driveway between the wooden hangar and Building 6.
3. **NO PARKING:** No parking will be permitted on the driveways adjacent to Buildings 6 and 2, or in other posted areas, nor in any portion of the Parking Yard except those spaces designated by white traffic lines.
4. **NEW EXIT:** A new exit to Vassar Street behind the Swimming Pool will soon be available.

Dinghy Racing

(Continued from Page 3)
I.C.Y.R.A., to increase the scope of its activities, and to provide greater funds for its management.

Revised System
Under the revised system, members may occupy one of three classifications designed to include all schools who wish to participate. These groups are: Regular membership, which will embrace all present members of the organization and will be the ultimate goal of all other members; Provisional membership, planned to constitute a transitory stage between Regular and Associate Membership designed to include all clubs classed as non-members.

Two new members of the organization were also voted in at the meeting. The addition of these schools, Haverford and Stevens Tech, brings the total number of members to twenty. Tech was represented at the meeting by Jack Wood, Sailing Master, and Thomas Crowley.

Senior Schedule

(Continued from Page 1)
Unit Credits the Same
The unit credits for the subjects are to remain on a fifteen week basis the same as in the 1941 catalog. Therefore the time adjustments will be made by additional hours in the fourth-year class schedule. Seniors will obtain full units credit in lowerclass subjects even though they don't complete them. Grades in these subjects will be given on the basis of work completed by April 18, in a manner to be determined by the instructor in charge.
All candidates for only the Bachelor's degree in 1942, including October and December candidates, will be required to follow the revised second term schedule, except as they may petition for substitutions. This affects all of the Seniors, including fifth year students in Courses IV, IV-B, and XIII-C and excluding fourth year students in Courses II-A, IV, IV-B, VI-A, VII-A and XIII-A.
Although the thesis has been omitted in many courses, a student desiring to complete his thesis may be allowed to do so by petition. The revised schedules for the various courses may be found on page 4.

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Although the thesis has been omitted in many courses, a student desiring to complete his thesis may be allowed to do so by petition. The revised schedules for the various courses may be found on page 4.

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Architecture	City Planning	City Planning Practice
SCHOOL OF SCIENCE		
Biology and Public Health	Geology	
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Biology and Public Health	Mineral Resources	
Public Health Engineering	Mathematics	Options: Pure Mathematics
Biophysics & Biological Engineering	Applied Mathematics	
Food Technology and Industrial Biology	Industrial Statistics	
Chemistry	Physics	
General Science	Options: General Physics	
	Applied Physics	
SCHOOL OF ENGINEERING		
Aeronautical Engineering	Electrical Engineering—	
Building Engineering and Construction	Cooperative Course	
Business and Engineering Administration	General Engineering	
Options:	Marine Transportation	
Based on Physical Sciences	Mechanical Engineering	
Based on Chemical Sciences	Options:	
Chemical Engineering	General	
Chemical Engineering Practice	Automotive	
Civil Engineering	Heat	
Electrical Engineering, including	Materials and Design	
Options:	Mechanical Engineering—	
Illuminating Engineering	Cooperative Course	
Electrical Communications	Metallurgy	
	Naval Architecture and Marine Engineering	
	Sanitary Engineering	

Each of the above undergraduate Courses is of four years duration, with the exception of Architecture, City Planning, Biophysics and Biological Engineering, Marine Transportation, and the cooperative Courses in Electrical Engineering and in Mechanical Engineering, which extend over a period of five years, and City Planning Practice which covers a period of six years. In addition to the Bachelor's degree, the above five and six year Courses, with the exception of Architecture and City Planning, lead also to the Master's degree.

Graduate study, leading to the Master's and Doctor's degrees, is offered in Ceramics, Meteorology, and in most of the above professional Courses.

A five year Course is offered which combines study in Engineering or Science, and Economics. This leads to the degree of Bachelor of Science in the professional field, and to the degree of Master of Science in Economics and Engineering or Economics and Natural Science.

The Summer Session extending from June to September includes many of the undergraduate subjects given during the academic year.

For information about admission, communicate with the Director of Admissions.

The following publications will be sent free on request:
Catalogue for the academic year
Summer Session Bulletin